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M. N. Sluter; R. Bhuniya; X. Yuan; A. Ramaraju; Y. Chen; Y. Yu; K. R. Parmar; Z. H. Temrikar; A. Srivastava; H. H. Song; T. C. Song; T. Yang; C. S. Sun; B. Q. He; H. Li; Y. J. Wang; Y. Li; H. Wu; Y. M. Hu; Y. J. Wang

K. Srisook; S. Mankhong; N. Chiranthanut; K. Kongsamak; N. T. Kitwiwat; P. Tongjurai; P. Aramsangtiet

G. Q. Teixeira; C. L. Pereira; F. Castro; J. R. Ferreira; M. Gomez-Lazaro; P. Aguiar; M. A. Barbosa; C. Nei

A. Vassallo; V. Santoro; I. Pappalardo; A. Santarsiero; P. Convertini; M. De Luca; G. Martelli; V. Infantir

R. Velagapudi; A. El-Bakoush; I. Lepiarz; F. Ogunrinade; O. A. Olajide

V. Villa; S. Thellung; A. Bajetto; E. Gatta; M. Robello; F. Novelli; B. Tasso; M. Tonelli; T. Florio

F. Widmayer; C. Neidlinger-Wilke; F. Witz; J. U. Jansen; A. Ignatius; M. Haffner-Luntzer; G. Q. Teixeira

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Y. Yu; J. X. Jiang

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H. Zhang; L. Ma; W. Z. Guo; L. B. Jiao; H. Y. Zhao; Y. Q. Ma; X. M. Hao
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K. Lee; H. R. Jang; J. Jeon; K. E. Yang; J. E. Lee; G. Y. Kwon; D. J. Kim; Y. G. Kim; W. Huh
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R. Miyakawa; A. Sato; Y. Matsuda; A. Saito; F. Abe; H. Matsumura; M. Odaka; T. Suzuki; N. Dohmae; A
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S. K. Norton; D. S. Wijesinghe; A. Dellinger; J. Sturgill; Z. Zhou; S. Barbour; C. Chalfant; D. H. Conrad; C.
S. F. Ofori-Acquah; R. Hazra; O. O. Orikogbo; D. Crosby; B. Flage; E. B. Ackah; D. Lenhart; R. J. Tan; D. A
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J. H. Park; I. Hwang; S. H. Hwang; H. Han; H. Ha
S. Raychaudhuri; O. Iartchouk; K. Chin; P. L. Tan; A. K. Tai; S. Ripke; S. Gowrisankar; S. Vemuri; K. Mon
L. Scarfe; A. Rak-Raszewska; S. Geraci; D. Darssan; J. Sharkey; J. G. Huang; N. C. Burton; D. Mason; P. F
D. M. Small; W. Y. Sanchez; S. F. Roy; C. Morais; H. L. Brooks; J. S. Coombes; D. W. Johnson; G. C. Gob
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M. J. Uddin; J. Jeong; E. S. Pak; H. Ha
M. J. Uddin; E. S. Pak; H. Ha
F. A. Valentijn; S. N. Knoppert; L. Marquez-Exposito; R. R. Rodrigues-Diez; G. Pissas; J. Tang; L. Tejedor
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Q. Y. Yuan; C. G. Ren; W. W. Xu; B. Petri; J. S. Zhang; Y. Zhang; P. Kubes; D. Q. Wu; W. W. Tang
P. Zhang; J. Q. Chen; Y. Wang; Y. Huang; Y. Tian; Z. J. Zhang; F. G. Xu
W. X. Zhang; J. C. Anyalebechi; K. M. Ramonell; C. W. Chen; J. F. Xie; Z. Liang; D. B. Chihade; S. Otani; C
Y. Zhao; X. Y. Zhu; L. Zhang; C. M. Ferguson; T. R. Song; K. Jiang; S. M. Conley; J. D. Krier; H. Tang; I. Sa
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X. Y. Zou; S. H. Kwon; K. Jiang; C. M. Ferguson; A. S. Puranik; X. Y. Zhu; L. O. Lerman
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Horn, Emma JRead, Casey CEdwards, J LannettSchrick, F NealRhinehart, Justin DPayton, Rebecca RCar
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Y. Liu; J. Wang; C. Horton; C. Yu; B. Knudsen; J. Stefanson; K. Hu; O. Stefanson; J. Green; C. Guo; Q. Xie
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Hippocampal neurons require a large pool of glutathione to sustain dendrite integrity and cognitive function

Blubber cortisol levels in humpback whales (*Megaptera novaeangliae*): A measure of physiological stress

In-house monitoring of steroid hormone metabolites in urine informs breeding management of a giant panda

Immunoglobulin J chain as a non-invasive indicator of pregnancy in the cheetah (*Acinonyx jubatus*)

Characterizing zoo-housed Bactrian camel (*Camelus bactrianus*) reproduction using gonadal steroid hormones

Challenges, pitfalls and surprises: development and validation of a monoclonal antibody for enzyme immunoassay

Effect of time and temperature on stability of progestagens, testosterone and cortisol in Asian elephants

Non-invasive hormonal characterization of the ovarian cycle, pregnancy, and seasonal anestrus of the cheetah

An Investigation of Ovarian and Adrenal Hormone Activity in Post-Ovulatory Cheetahs (*Acinonyx jubatus*)

Testosterone deprivation increases tendency to obesity but does not affect cardiac function in dogs

Fecal progesterone and estrogen metabolite monitoring for cyclicity and pregnancy in southern tamias

Faecal glucocorticoid metabolite concentrations associated with illness, sex, age, and season in a kea

Applying Behavioral and Physiological Measures to Assess the Relative Impact of the Prolonged COVID-19 Pandemic

Investigation of pathology associated with *Chlamydia pecorum* infection in the male reproductive tract of the sand tiger shark *Carcharias taurus*

Testosterone and semen seasonality for the sand tiger shark *Carcharias taurus*

Behaviour and physiology of sheep exposed to ammonia at a similar concentration to those experienced in the wild

The influence of physiological status on the reproductive behaviour of humpback whales (*Megaptera novaeangliae*)

Effects of physiological changes and social life events on adrenal glucocorticoid activity in female zoo-housed cheetahs

Assessing puberty in ex situ male cheetahs (*Acinonyx jubatus*) via fecal hormone metabolites and body condition

DigEST: Digital plug-n-probe disease Endotyping Sensor Technology

Label-Free, Novel Electrofluidic Capacitor Biosensor for Prostaglandin E2 Detection toward Early and Accurate Diagnosis

Label Free, Lateral Flow Prostaglandin E2 Electrochemical Immunosensor for Urinary Tract Infection Detection

Characterization of basal seminal traits and semen cryopreservation in Canada lynx (*Lynx canadensis*)

Dietary substitution of soybean oil with coconut oil in the absence of dietary antibiotics supports growth and health of broiler chickens

Exploratory Investigation of Infrared Thermography for Measuring Gorilla Emotional Responses to Intact and Damaged Food

DNA Damage as a Potential Non-Invasive Indicator of Welfare: A Preliminary Study in Zoo-Housed Gorillas

Exposure of managed red river hogs (*Potamochoerus porcus*) to urine from males stimulates estrous cycles

Metabolome variations in the *Porphyromonas gingivalis* vimA mutant during hydrogen peroxide-induced oxidative stress

Exposure of human nasal epithelial cells to formaldehyde does not lead to DNA damage in lymphocytes

Metabolite profiles evaluated, according to sex, do not predict resting energy expenditure and lean body mass in mice

The effect of agility exercise on eicosanoid excretion, oxidant status, and plasma lactate in dogs

Senescence marker activin A is increased in human diabetic kidney disease: association with kidney function and albuminuria

Noncanonical genomic imprinting in the monoamine system determines naturalistic foraging and brain development in mice

Association between human exposure to heavy metals/metalloid and occurrences of respiratory disease

Rotating-shift nurses after a day off: peripheral clock gene expression, urinary melatonin, and serum melatonin

Effect of stocking density on performance, diet selection, total-tract digestion, and nitrogen balance in broiler chickens

Evolution of the urinary proteome during human renal development and maturation: variations with age and sex

A non-erythropoietic peptide derivative of erythropoietin decreases susceptibility to diet-induced insulin resistance

Reversal of the deleterious effects of chronic dietary HFCS-55 intake by PPAR-delta agonism correlates with improved metabolic health

Assessment of Energy and Nutrient Intake and the Intestinal Microbiome (ErNst Study): Protocol and Preliminary Results

Urinary mitochondrial DNA copy number identifies renal mitochondrial injury in renovascular hypertension

Urinary Mitochondrial DNA Copy Number Identifies Chronic Renal Injury in Hypertensive Patients

Glomerular Hyperfiltration in Obese African American Hypertensive Patients Is Associated With Elevated Plasma Angiotensin II

Urotensin II in the development and progression of chronic kidney disease following 5/6 nephrectomy

Regeneration of glomerular metabolism and function by podocyte pyruvate kinase M2 in diabetic nephropathy

The dose-response effect on polyphenol bioavailability after intake of white and red wine pomace products

Effect of T3 Spinal Contusion Injury on Upper Urinary Tract Function

A low-gluten diet induces changes in the intestinal microbiome of healthy Danish adults

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Mapping urinary chemokines in human lupus nephritis: Potentially redundant pathways recruit CD4<

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Bicarbonate-sensitive calcification and lifespan of klotho-deficient mice

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Effects of substituting sericea lespedeza for lucerne on nutrient digestibility and utilization in feedlot l

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Effect of induced subclinical hypocalcemia on physiological responses and neutrophil function in dairy

In vivo selection of transplanted hepatocytes by pharmacological inhibition of fumarylacetoacetate h

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Noninvasive monitoring of evolving urinary metabolic patterns in neonatal encephalopathy

Association of Obstructive Sleep Apnea with the Aging Process

FTI-277 inhibits smooth muscle cell calcification by up-regulating PI3K/Akt signaling and inhibiting apc

Hypoxemia events in preterm neonates are associated with urine oxidative biomarkers

GC-MS analysis of short chain fatty acids and branched chain amino acids in urine and faeces samples

Effect of feeding ensiled or dried grape pomace on nitrogen utilization in backgrounding cattle

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Urinary 8-oxo-7,8-dihydro-2'-deoxyguanosine values determined by a modified ELISA improves agree

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The Relationship between Oxidative Stress, Intermittent Hypoxemia, and Hospital Duration in Moder

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Effect of duration of exposure to diets differing in dietary cation-anion difference on Ca metabolism a

Use of calcitriol to maintain postpartum blood calcium and improve immune function in dairy cows

Bisphenol F Exposure in Adolescent Heterogeneous Stock Rats Affects Growth and Adiposity

Increased urinary excretion of nephrin, podocalyxin, and betaig-h3 in women with preeclampsia

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Steroid-loaded reconstituted high-density lipoprotein nanocarrier: A new treatment for systemic lupu

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The Renal Effects of Prenatal Testosterone in Rats

Altering the particle size of supplemental zeolite (clinoptilolite): effects on nitrogen utilization and nu

Myeloperoxidase formation of PAF receptor ligands induces PAF receptor-dependent kidney injury du

Predation shapes the movement of a well-defended species, the North American porcupine, even wh

Targeted afferent renal denervation reduces arterial pressure but not renal inflammation in establish

Chronic ethanol ingestion induces oxidative kidney injury through taurine-inhibitable inflammation

A Microglia Sublineage Protects from Sex-Linked Anxiety Symptoms and Obsessive Compulsion

Excreted testosterone and male sexual proceptivity: A hormone validation and proof-of-concept expe

Short-term effect of ovariectomy on urine serotonin, cortisol, testosterone and progesterone

The swan-neck lesion: proximal tubular adaptation to oxidative stress in nephropathic cystinosis

Integrin-linked kinase regulates tubular aquaporin-2 content and intracellular location: a link between

Endothelial progenitor cell-derived extracellular vesicles protect from complement-mediated mesang

Aging has small effects on initial ischemic acute kidney injury development despite changing intraren

Treatment with the Matricellular Protein CCN3 Blocks and/or Reverses Fibrosis Development in Obes

Arsenic metabolism, diabetes prevalence, and insulin resistance among Mexican Americans: A mende

Differential Metabolic and Transcriptional Responses of Gilthead Seabream (*Sparus aurata*) Administe

Prenatal maternal stress and child hair cortisol four years later: Evidence from a low-income sample

Serum cortisol and adrenocorticotrophic hormone (ACTH) in infants receiving topical and subconjunc

Changes in Salivary Biomarkers with EMDR-Evidence for EMDR Effectiveness in Treatment of PTSD

The effect of a commercial feed additive on the immune-metabolic axis, liver function and predicted i

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Mayday, Mayday, Mayday: Using salivary cortisol to detect distress (and eustress!) in critical incident
Aflatoxicosis Dysregulates the Physiological Responses to Crowding Densities in the Marine Teleost G
Dietary aflatoxin B1 (AFB1) reduces growth performance, impacting growth axis, metabolism, and tiss
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Evaluation of stress, serum and salivary cortisol, and interleukin-1 β levels in smokers and non-smoker
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Evaluation of stress, serum and salivary cortisol, and interleukin-1 beta levels in smokers and non-sm
Initial validation of blubber cortisol and progesterone as indicators of stress response and maturity in
Effects of injectable vitamin C at weaning and prior to transit on growth performance of early-weane
Inhibitory control failures and blunted cortisol response to psychosocial stress in amphetamine consu
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Glucocorticoid receptor expression and binding capacity in patients with burn injury
Impairment of neutrophilic glucocorticoid receptor function in patients treated with steroids for septi
Welfare of a pair of captive tigers-a hand-reared female and a parent-reared male
Physiological Plasticity to Water Flow Habitat in the Damsel fish, : Linking Phenotype to Performance
Psychoneuroendocrinology-based meditation (PNEIMED) training reduces salivary cortisol un
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Zinc Source and Concentration Altered Physiological Responses of Beef Heifers during a Combined Vir
Some Negative Effects of Heat Stress in Feedlot Heifers May Be Mitigated via Yeast Probiotic Supplem
Dam Body Condition Score Alters Offspring Circulating Cortisol and Energy Metabolites in Holstein Ca
Evaluation Evaluation of the innate immune response of Angus heifers with genetic marker variation
Enhancement of the acute phase response to a lipopolysaccharide challenge in steers supplemented
Yeast cell wall supplementation alters aspects of the physiological and acute phase responses of cross
Space allowance influences individually housed Holstein bull calf innate immune measures and standi
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Prenatal immune stimulation alters the postnatal acute phase and metabolic responses to an endoto:
Follow-up in healthy schoolchildren and in adolescents with DOWN syndrome: psycho-environmental
Short communication: Associations of serum biomarkers of stress and inflammation measured at arri
Blubber cortisol qualitatively reflects circulating cortisol concentrations in bottlenose dolphins
Comprehensive endocrine response to acute stress in the bottlenose dolphin from serum, blubber, ar
Cortisol Measurement in Koala (*Phascolarctos cinereus*) Fur
Innate humoral immune parameters in *Tilapia zillii* under acute stress by low temperature and crowdi
Assessing the utility of urinary and fecal cortisol as an indicator of stress in golden snub-nosed monke
ATR-101 disrupts mitochondrial functions in adrenocortical carcinoma cells and
Effects of meloxicam administration on protein metabolism and growth performance in transported J
Insect-repelling behaviour in horses in relation to insect prevalence and access to shelters
The intake of an extract from seeds of *Tamarindus indica* L. modulates the endocrine function of adul
Associations between fecal cortisol and biparental care in a pair-living primate
Effects of stocking density and environmental enrichment on behavior and fecal corticosteroid levels
Addition of a dairy fraction rich in milk fat globule membrane to a high-saturated fat meal reduces th
Comparison of cortisol level in Asian elephants of different tiger reserves of Madhya Pradesh
Social roles influence cortisol levels in captive Livingstone's fruit bats (*Pteropus livingstonii*)
Hair cortisol concentration in pre- and postpartum dairy cows, and its association with body conditio
Comparison of productive and reproductive performance and hair cortisol levels between Brown Swi
Effect of repeated adrenocorticotrophic hormone administration on reproductive function and hair coi
Dietary Butyrate Helps to Restore the Intestinal Status of a Marine Teleost () Fed Extreme Diets Low in
Experimental inoculation trial to determine the effects of temperature and humidity on White-nose S

Hypothalamic-Pituitary-Adrenal Axis Dysfunction and Illness Progression in Bipolar Disorder

Behavioral and hormonal responses to the availability of forage material in Western lowland gorillas (Children's fingernail cortisol among BaYaka foragers of the Congo Basin: associations with fathers' role Hair cortisol concentrations among urban and rural-dwelling mother-child dyads, La Romana, Dominica Validation of Commercial ELISA kit for Non-Invasive Measurement of Cortisol Concentrations and the Aversiveness of husbandry procedures for pre-weaned foals: A comparison using behavioural and physiological Effects of human visitation on calf growth and performance of calves fed different milk replacer feeds Inflammation and fatness in adolescents with and without Down syndrome: UP & DOWN study H₂S releasing Sodium sulfide protects from acute stress-induced hypertension by increasing the activity of Synbiotic Supplementation Improves Quality of Life and Immunoneuroendocrine Response in Patients Effects of repeated short episodes of environmental acidification on Atlantic salmon (*Salmo salar*) from Lower hair cortisol among patients with sickle cell disease may indicate decreased adrenal reserves Effect of colostrum feeding strategies on the expression of neuroendocrine genes and active gut mucin Adrenal Gland Irradiation Causes Fatigue Accompanied by Reactive Changes in Cortisol Levels Immune Responses and Performance Are Influenced by Respiratory Vaccine Antigen Type and Stress <Go to ISI>://WOS:000557240300001

Increasing the dietary n-6/n-3 ratio alters the hepatic eicosanoid production after acute stress in Atlantic salmon Effects of dietary yeast inclusion and acute stress on post-prandial whole blood profiles of dorsal aorta Haematological and intestinal health parameters of rainbow trout are influenced by dietary live yeast Forced migration experiences, mental well-being, and nail cortisol among recently settled refugees in Conflict Behavior in Show Jumping Horses: A Field Study Usefulness of clustering blood biochemical markers to assess thermal stress and acclimation in red sea Spawning Induction of First-Generation (F1) Greater Amberjack *Seriola dumerili* in the Canary Islands, Transport and and recovery of gilthead seabream (*Sparus aurata* L.) sedated with AQUI-S (R) and etorol The human fetal adrenal produces cortisol but no detectable aldosterone throughout the second trimester Efficacy and safety of standardized Ashwagandha (*Withania somnifera*) root extract on reducing stress Blubber Cortisol: A Potential Tool for Assessing Stress Response in Free-Ranging Dolphins without Effort Transition to a market economy and chronic psychosocial stress in northern Laos: An exploratory study The reduced bactericidal activity of neutrophils as an incisive indicator of water-immersion restraint stress Neural stem cell-specific ITPA deficiency causes neural depolarization and epilepsy Cortisol metabolites vary with environmental conditions, predation risk, and human shields in a wild pig Regulation of the Intestinal Extra-Adrenal Steroidogenic Pathway Component LHR-1 by Glucocorticoids The effects of socializing and environmental enrichments on sow and piglet behavior and performance Latent profile analysis of blood marker phenotypes and their relationships with clinical pain and interictal A randomized, double-blind, placebo-controlled trial of hydrocortisone augmentation of Prolonged Exposure Food Security Status and Hair Cortisol among Low-income Mother-Child Dyads Obesity and Hair Cortisol: Relationships Varied Between Low-Income Preschoolers and Mothers Does hair cortisol really reflect perceived stress? Findings from low-income mother-preschooler dyad Metals and oxidative potential in urban particulate matter influence systemic inflammatory and neuroendocrine Influence of exposure to coarse, fine and ultrafine urban particulate matter and their biological constituents Celecoxib reduces glucocorticoids in vitro and in a mouse model with adrenocortical hyperplasia 1, 8-cineole and ginger extract (*Zingiber officinale* Rosc) as stress mitigator for transportation of large

Stress recovery with social support: A dyadic stress and support task

Effects of stress and cortisol on the polarization of carp macrophages

A novel method for assessing chronic cortisol concentrations in dogs using the nail as a source

Faecal Cortisol, Haematological and Serum Biochemical Parameters in Captive Asian Elephants in Thailand Supplementing a *Saccharomyces cerevisiae* fermentation product modulates innate immune function

A Reusable Electrochemical Biosensor for Monitoring of Small Molecules (Cortisol) Using Molecularly Inhibition of Aurora kinase A activity enhances the antitumor response of beta-catenin blockade in hu
Impact of heat stress and a feed supplement on hormonal and inflammatory responses of dairy cows
Significance of dopamine D-1 receptor signalling for steroidogenic differentiation of human induced p
Cortisol changes in bottlenose dolphins in the dolphin interactive program
Elevated Anandamide, Enhanced Recall of Fear Extinction, and Attenuated Stress Responses Followin
Effect of transport and rest stop duration on the welfare of conditioned cattle transported by road
Effects of conditioning, source, and rest on indicators of stress in beef cattle transported by road
Effect of rest, post-rest transport duration, and conditioning on performance, behavioural, and physic
Use of fecal glucocorticoid and salivary cortisol concentrations as a measure of well-being of New Yor
Impact of transdermal flunixin administration on serum prostaglandin E2 and cortisol concentrations
Green nature effect on stress response and stress eating in the lab: Color versus environmental conte
Non-invasive sampling of water-borne hormones demonstrates individual consistency of the cortisol
Biotechnological treatment of microalgae enhances growth performance, hepatic carbohydrate meta
Biotechnological treatment of microalgae enhances growth performance, hepatic carbohydrate meta
Replacement of fish oil with vegetable oil blends in feeds for greater amberjack (*Seriola dumerili*) juve
Behavioral Responses of Sows Exposed to Conventional Methods or Precision-Technology to Mitigate
Elevated salivary cortisol predicts response to adjunctive immune modulation in treatment-resistant l
How is Western lowland gorilla (*Gorilla gorilla gorilla*) behavior and physiology impacted by 360 visito
Comparing the agreement of a commercial cortisol kit with a biologically validated assay in evaluating
Electrochemical immunosensing of saliva cortisol
Orangulas: effect of scheduled visual enrichment on behavioural and endocrine aspects of a captive o
Low dietary inclusion of nutraceuticals from microalgae improves feed efficiency and modifies interm
Activity of the hypothalamus-pituitary-interrenal axis (HPI axis) and immune response in carp lines wi
Evaluation of serum protein-based arrival formula and serum protein supplement (Gammulin) on gro
Set-up of a multivariate approach based on serum biomarkers as an alternative strategy for the scree
The Animal-Visitor Interaction Protocol (AVIP) for the assessment of Lemur catta walk-in enclosure in
Effect of solar radiation on thermoregulatory responses of Santa Ine circumflex accent s sheep and th
A BCWD-Resistant line of rainbow trout is less sensitive to cortisol implant-induced changes in IgM re
Differential Health Effects on Inflammatory, Immunological and Stress Parameters in Professional Soc
Effects of fatty acids and calf starter form on intake, growth, digestion, and selected blood metabolite
Development, validation and testing of an Operational Welfare Score Index for farmed lumpfish Cycl
Effect of Systemic Cortisol on Pregnancy Rate in Repeat Breeding Cows during Early Pregnancy
Randomized control trial assessing the efficacy of pain control strategies for caustic paste disbudding
Welfare Assessment in Shelter Dogs by Using Physiological and Immunological Parameters
Influence of Hesperidin on Systemic Immunity of Rats Following an Intensive Training and Exhausting
Influence of Diets Enriched with Flavonoids (Cocoa and Hesperidin) on the Systemic Immunity of Inter
Protective Effect of a Cocoa-Enriched Diet on Oxidative Stress Induced by Intensive Acute Exercise in l
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Some aspects of the acute phase immune response to a lipopolysaccharide (LPS) challenge are mitiga
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Preoperative protocol for right flank laparotomy affects postoperative serum cortisol concentrations
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Emotional Reactivity and Internalizing Symptoms: Moderating Role of Emotion Regulation
Interaction of Biological Stress Recovery and Cognitive Vulnerability for Depression in Adolescence
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Association between the levels of stress markers and the onset of kangaroo disease (lumpy jaw disea
Stress assessment using hair cortisol of kangaroos affected by the lumpy jaw disease
The effects of Solliquin administration on the activity and fecal cortisol production of shelter dogs
Manual therapy is effective in reducing VAS pain scores in patients with osteoarthritis
Stress and the Multiple-Role Woman: Taking a Closer Look at the Superwoman""
Stress differentially affects the systemic and leukocyte estrogen network in common carp
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Gut microbiota of wild fish as reporters of compromised aquatic environments sleuthed through mac
Electrochemical cortisol immunosensors based on sonochemically synthesized zinc oxide 1D nanorod
A culturally and gender responsive stress and chronic disease prevention intervention for low/no-inc
Trace mineral metabolism and nutrient digestibility in lambs supplemented with zinc sulfate during ar
Stress Responsiveness and Emotional Eating Depend on Youngsters' Chronic Stress Level and Overwe
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Whiskers as a novel tissue for tracking reproductive and stress-related hormones in North Pacific otar
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Restoring Cytokine Balance in HIV-Positive Individuals with Low CD4 T Cell Counts
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CYSTATIN C IN CHRONIC KIDNEY DISEASE
Copeptin Plasma Levels are Associated with Decline of Renal Function in Patients with Type 2 Diabete
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Corticosterone administration after a single-trial contextual fear conditioning does not influence the s
Microglia in the hypothalamus respond to tumor-derived factors and are protective against cachexia
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Physiological response to the odorant TMT in fully fed and calorically restricted laboratory mice
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Restraint Stress Alters Expression of Glucocorticoid Bioavailability Mediators, Suppresses Nrf2, and Pr
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Supplementation with low molecular weight peptides from fish protein hydrolysate reduces acute mild stress response in mice
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Butyrylcholinesterase is a potential biomarker for Sudden Infant Death Syndrome

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Carbenoxolone Disodium Treatment for Canine Pituitary-Dependent Hyperadrenocorticism

The association between the cortisol and cortisone awakening responses

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Bacillus anthracis Edema Toxin Increases Fractional Free Water and Sodium Reabsorption in an Isolat

Single-nucleotide polymorphisms of the dopamine D2 receptor increase inflammation and fibrosis in

Genetic KCa3.1-deficiency produces locomotor hyperactivity and alterations in cerebral monoamine l

B. anthracis edema toxin increases cAMP levels and inhibits phenylephrine-stimulated contraction in

Calcium influx enhances neuropeptide activation of ecdysteroid hormone production by mosquito ov

Effects of caffeine on circadian phase, amplitude and period evaluated in cells and peripheral organs i

CD36 protein influences myocardial Ca²⁺ homeostasis and phospholipid metabolism: conduction and

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mem-iLID, a fast and economic protein purification method

Cadmium inhibits mouse sperm motility through inducing tyrosine phosphorylation in a specific subse

Cyclic AMP Effectors Regulate Myometrial Oxytocin Receptor Expression

Changes in cAMP effector predominance are associated with increased oxytocin receptor expression

(S)-alpha-chlorohydrin inhibits protein tyrosine phosphorylation through blocking cyclic AMP - protei

Hexavalent chromium affects sperm motility by influencing protein tyrosine phosphorylation in the m

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Hypoglycosylated hFSH Has Greater Bioactivity Than Fully Glycosylated Recombinant hFSH in Human

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Molecular and Cellular Effects Induced in Mytilus galloprovincialis Treated with Oxytetracycline at Dif

Amyloid beta-induced impairments on mitochondrial dynamics, hippocampal neurogenesis, and mem

Cyanobacteriochrome-based photoswitchable adenylyl cyclases (cPACs) for broad spectrum light regu

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Growth on glucose decreases cAMP-CRP activity while paradoxically increasing intracellular cAMP in t

Novel Template Plasmids pCyaA'-Kan and pCyaA'-Cam for Generation of Unmarked Chromosomal cyz

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Can spines tell a story? Investigation of echidna spines as a novel sample type for hormone analysis in marsupials

Physical and behavioral indicators associated with hormonal changes during musth in zoo-housed African elephants

Differences in the Density of Fungiform Papillae and Composition of Saliva in Patients With Taste Dysfunction

Interfacial Properties of Doped Semiconductor Materials Can Alter the Behavior of *Pseudomonas aeruginosa*

Traditional Japanese formulas *tokishakuyakusan* and *ogikenchuto* suppress dermal sclerosis in bleomycin-treated mice

Mesenchymal stem cell secretome protects against oxidative stress-induced ocular and retinal pathology

Noninvasive mapping of the redox status of dimethylnitrosamine-induced hepatic fibrosis using dynamic contrast-enhanced MRI

Dietary Patterns and Their Association with Body Composition and Cardiometabolic Markers in Children

Dietary Vitamin E and/or Hydroxytyrosol Supplementation to Sows during Late Pregnancy and Lactation

Functional Characterisation of Anticancer Activity in the Aqueous Extract of *Helicteres angustifolia* L.

Obesity alters monocyte developmental trajectories to enhance metastasis

Sodium thiosulfate prevents doxorubicin-induced DNA damage and apoptosis in cardiomyocytes in mice

Radon inhalation suppresses nephropathy in streptozotocin-induced type-1 diabetic mice

Optimization of novel pentablock copolymer based composite formulation for sustained delivery of paclitaxel

Impact of 3-Amino-1,2,4-Triazole (3-AT)-Derived Increase in Hydrogen Peroxide Levels on Inflammatory Responses

Tigecycline Suppresses the Virulence Factors of Multidrug-Resistant *Acinetobacter baumannii* in Mice

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Neutrophil oxidative stress mediates obesity-associated vascular dysfunction and metastatic transmigration of tumor cells

Association of chronic inflammation and perceived stress with abnormal functional connectivity in brain

Aging-Related Decline of Glutathione Peroxidase 3 and Risk of Cardiovascular Events in Patients With Type 2 Diabetes

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Indirect effects of TiO₂ nanoparticle on neuron-glia cell interactions

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Journal
Redox Biology
General and Comparative Endocrinology
Zoo Biology
Plos One
Domestic Animal Endocrinology
General and Comparative Endocrinology
Conservation Physiology
Theriogenology
Animals
Veterinary Integrative Sciences
Zoo Biology
Journal of Zoo and Aquarium Research
Animals
Theriogenology
Biology of Reproduction
Applied Animal Behaviour Science
Hormones and Behavior
Plos One
General and Comparative Endocrinology
Bioengineering & Translational Medicine
ACS Sens
Chemosensors
Theriogenology Wild
Journal of Animal Science and Biotechnology
Animals
Journal of Zoological and Botanical Gardens
General and Comparative Endocrinology
Molecular Oral Microbiology
Mutagenesis
European journal of nutrition
BMC Vet Res
Bmj Open Diabetes Research & Care
Cell Rep
Environmental Pollution
Scand J Work Environ Health
Journal of Animal Science
Pediatr Res
British Journal of Pharmacology
Biochem Pharmacol
JMIR Res Protoc
Acta Physiologica
Hypertension
American Journal of Hypertension
Experimental Physiology
JCI Insight
Food & Function
Neurotrauma Rep
Nature Communications
J Biomol Tech

European Journal of Immunology
European Journal of Oral Sciences
American Journal of Physiology-Renal Physiology
Environ Health Perspect
Small Ruminant Research
J Dairy Sci
J Dairy Sci
Mol Ther
Pharmacological Research
Pediatric Research
Ann Am Thorac Soc
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Pediatr Res
Clin Chim Acta
Translational Animal Science
J Pharmacol Toxicol Methods
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Neonatology
Neurobiol Stress
Journal of Dairy Science
Journal of Dairy Science
Toxicological Sciences
Am J Physiol Renal Physiol
American Journal of Physiology-Renal Physiology
Metabolomics
Journal of Chromatography A
Biological Trace Element Research
J Biomater Appl
Neurobiol Stress
Journal of Urology
Transl Anim Sci
Free Radical Biology and Medicine
Behavioral Ecology
American Journal of Physiology-Regulatory Integrative and Comp
Free Radic Biol Med
Cell Reports
General and Comparative Endocrinology
Bmc Research Notes
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Faseb Journal
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Livestock Science

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International Journal of Industrial Ergonomics
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Aquaculture
Surgery
Journal of Periodontology
J Periodontol
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General and Comparative Endocrinology
J Anim Sci
Journal of Research in Medical Sciences
Anim Reprod Sci
Acta Anaesthesiologica Scandinavica
Intensive Care Med Exp
Journal of Advances in Agriculture
Plos One
Explore-the Journal of Science and Healing
Gut
Animals
Frontiers in Veterinary Science
Metabolites
Livestock Science
Innate Immun
Innate Immun
Journal of Dairy Science
J Int Med Res
Nutrition
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Transl Anim Sci
Bmc Public Health
Journal of Dairy Science
Marine Mammal Science
General and Comparative Endocrinology
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American Journal of Physical Anthropology
Journal of Veterinary Behavior-Clinical Applications and Research
J Nutr Sci
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Applied Animal Behaviour Science
J Dairy Sci
Journal of Intellectual Disability Research
Tissue Cell
Nutrients
Science of the Total Environment
American Journal of Blood Research
Journal of Dairy Science
Journal of Clinical Medicine
Animals
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Aquaculture
Fish Physiology and Biochemistry
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Aquaculture
Fishes
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Bmc Medicine
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Aquaculture

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Chronic Stress (Thousand Oaks)
Neuroscience Letters
Nature Communications
Steroids
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Neuroscience
Molecular Immunology
Frontiers in Behavioral Neuroscience
Journal of Applied Physiology
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Am J Physiol Endocrinol Metab
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Proceedings of the 2022 Chi Conference on Human Factors in Cc
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Mol Autism
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Endocrinology
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Neuropsychopharmacology
Physiology & Behavior
Curr Eye Res
Alt Med Chiropractic OA J
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J Obes
Neurobiology of Learning and Memory
European Journal of Neuroscience
Integrative and Comparative Biology
J Neuroendocrinol
Environmental Health Perspectives
Toxicological Sciences
Toxicology and Applied Pharmacology
Nature Chemical Biology
Animals
American Journal of Physiology-Renal Physiology
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Journal of Immunology
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Journal of Neuroscience
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Psychoneuroendocrinology
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Experimental Neurology
Front Immunol
Psychopharmacology

Frontiers in Behavioral Neuroscience
Andrology
Neurobiology of Stress
Life Sciences
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Biochemical and Biophysical Research Communications
Neurobiology of Stress
Horm Behav
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PLoS One
Metabolism
Journal of Pharmacological and Toxicological Methods
Neurosci Lett
Neurological Research
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Toxicon

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Pharmacology Biochemistry and Behavior
Park Science
Journal of Mammalogy
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Function

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Hepatology

Molecular Pharmaceutics
Journal of Medical Primatology
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J Pharmacopuncture
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Biofactors
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Am J Physiol Renal Physiol
Zoo Biology
Animal Bioscience
Reproduction and Fertility
Theriogenology
Conservation Physiology
Scientific Reports
Plos One
Clinical Infectious Diseases
Conservation Physiology
Anim Reprod Sci
Conservation Physiology
Applied Animal Behaviour Science
General and Comparative Endocrinology
Brain Research Bulletin
Journal of Neurotrauma
Journal of Clinical Investigation
Toxicology and Applied Pharmacology
Neurotrauma Reports
JCI Insight
Haematologica
Neuropharmacology
Bmc Complementary and Alternative Medicine
Endocrinology
Cellular Physiology and Biochemistry
Oncotarget
Free Radical Biology and Medicine
J Neurosci
Plos One
Cellular Signalling
Hypertension
Free Radic Biol Med
Development
Nature Communications
Oncogene
Epilepsy Research
Animal
Stem Cell Research & Therapy
Redox Biology
Food Research International
Nutrients
Food & Function

PLoS One
Biochimica Et Biophysica Acta-Molecular Basis of Disease
Pediatr Res
Neurotherapeutics
Toxicol Lett
J Agric Food Chem
J Agric Food Chem
Internal Medicine
Brain Research
Free Radical Research
Faseb Journal
European Neuropsychopharmacology
Scientific Reports
Proceedings of the 5th Balkan Scientific Conference on Biology
Nutrients
International Journal of Molecular Medicine
Insects
Psychiatry Research
Environmental Science and Pollution Research
European Neuropsychopharmacology
Int J Neuropsychopharmacol
Evid Based Complement Alternat Med
LWT
Poult Sci
Poult Sci
Journal of Veterinary Medical Science
Herpetological Journal
Science Bulletin
Faseb Journal
Journal of Reproduction and Development
Mol Cell Endocrinol
Biological Psychology
Horm Behav
Poultry Science
Zoo Biology
Research, Society and Development
Integrative Cancer Therapies
International Journal of Primatology
Pathogens

Theriogenology
Current Oncology
Reproductive Biology and Endocrinology
Plos One
Horm Behav
The Pharma Innovation International Journal
Ecology and Evolution

Evolutionary Ecology
Avian Biology Research
Integr Org Biol
Eneuro
General and Comparative Endocrinology
Toxicologic Pathology
Metabolites
Animals (Basel)
Plos One
J Biol Chem
Journal of Veterinary Diagnostic Investigation
General and Comparative Endocrinology
PLoS One
Journal of Comparative Physiology B-Biochemical Systems and E
Amphibian & Reptile Conservation
J Biol Rhythms
Integr Comp Biol
Commun Biol
General and Comparative Endocrinology
Theriogenology Wild
Chemical Senses
Acs Applied Electronic Materials
Traditional & Kampo Medicine
Experimental Eye Research
Scientific Reports
Nutrients
Antioxidants (Basel)
PLoS One
J Exp Med
Life Sciences
Journal of Nuclear Science and Technology
J Microencapsul
Plos One
Infect Drug Resist
Aquaculture
Biomedicine & Pharmacotherapy
Scientific Reports
Biochemical and Biophysical Research Communications
Invertebrates—Experimental Models in Toxicity Screening. 1st e
Journal of Toxicology and Environmental Health-Part a-Current I:
Journal of Nanomaterials &Molecular Nanotechnology
American Journal of Pathology
British Journal of Nutrition
Journal of Functional Foods
Nature Cancer
Brain Behavior and Immunity
Journal of the American Heart Association
Plos One
Free Radical Biology and Medicine
Scientific Reports

Chemico-Biological Interactions
Biochemical and Biophysical Research Communications
Plant Physiology and Biochemistry
Lab on a Chip
Plant Physiology and Biochemistry
Free Radical Biology and Medicine
Bmc Plant Biology
Scientific Reports
Oxidative Medicine and Cellular Longevity
Current Atherosclerosis Reports
Internal and Emergency Medicine
Environmental Toxicology
Jacc-Basic to Translational Science
Redox Biol
Redox Biol
Biomedicines
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Catalysts
Scientific Reports
Antioxidants
Journal of Experimental Biology
American Journal of Physical Anthropology
Psychoneuroendocrinology
Biol Sex Differ
Journal of Animal and Plant Sciences
Reprod Fertil
Biology of Sex Differences
Journal of Entomology and Zoology Studies
Contraception
American Journal of Obstetrics and Gynecology
Medicine and Science in Sports and Exercise
Hormones and Behavior
Animal
Plos One
Livestock Science

Univ Tours, IFCE, CNRS, PRC,INRA, Nouzilly, FranceUniv Paris Sud,
British Journal of Clinical Pharmacology
Translational Psychiatry
Biology of Sport
Bmc Zoology
Clinical and Experimental Obstetrics & Gynecology
Hum Exp Toxicol
Process Biochemistry
Plos One
J Anim Sci
Molecules
Clinical and Experimental Pharmacology and Physiology
J Nutr
Small Ruminant Research

Translational Animal Science
J Anim Sci
Nutrition
Age
Journal of Nutrition and Health
Foods
Food Science and Biotechnology
Journal of Animal Physiology and Animal Nutrition
Scientific Reports
Materials Science and Engineering C-Materials for Biological App
Additive Manufacturing
Journal of Cellular Physiology
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Pharmaceutics
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Physiology & Behavior
Horm Behav
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Developmental Psychobiology
Peptides
Psychoneuroendocrinology
Psychoneuroendocrinology
Frontiers in Behavioral Neuroscience
Psychoneuroendocrinology
Psychoneuroendocrinology
Zoo Biology
Primates
European Neuropsychopharmacology
Domestic Animal Endocrinology
Infant Behavior & Development
Physiology & Behavior
Nature Communications
Biological Psychology
J Neuroendocrinol
Hormones and Behavior
Endocrinology
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Scientific Reports
Hormones and Behavior
Sci Rep
Autophagy
Archives of Toxicology
Pediatric Pulmonology
Psychoneuroendocrinology
Proceedings of the National Academy of Sciences of the United S
Journal of Human Lactation
Am J Vet Res
Environmental Pollution
Molecular and Cellular Endocrinology
Sci Rep

Hormones and Behavior
Science of the Total Environment
American Journal of Veterinary Research
Scientific Reports
Journal of Immunological Methods
Plos One
American Journal of Physiology-Heart and Circulatory Physiology
Kansas State Univ, Dept Kinesiol, 144 Justin Hall, Manhattan, KS
American Journal of Physiology-Renal Physiology
Clinical Journal of Sport Medicine
Journal of Translational Medicine
Scientific Reports
European Journal of Medicinal Chemistry
Clinical Science
International Immunopharmacology
Journal of Applied Physiology
Journal of Cellular Physiology
Journal of Pharmacy and Pharmacology
Pharmacological Research
Scientific Reports
British Journal of Nutrition
Journal of Neuroinflammation
Farmacia
Scientific Reports
Journal of Equine Veterinary Science
Nanomaterials
Journal of Applied Physiology
Phytomedicine
J Neuroendocrinol
Brain Behavior and Immunity
Aims Molecular Science
J Lipid Res
European Journal of Pharmacology
Physiological Reports
European Cells & Materials
Food Chem
Molecules
Molecular Neurobiology
Pharmaceutics

Journal of Cellular and Molecular Medicine
Frontiers in Physiology
Journal of Biological Chemistry
Brain Behavior and Immunity
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Scientific Reports
Prostaglandins Leukotrienes and Essential Fatty Acids
Cells

European Spine Journal
Biochemical and Biophysical Research Communications
Oxid Med Cell Longev
Oxidative Medicine and Cellular Longevity
International Journal of Life Science and Pharma Research

ACS Pharmacol Transl Sci
Neural Regeneration Research
Toxicology and Applied Pharmacology
Acta Biomaterialia
Nanomaterials
Molecular and Cellular Biochemistry
Pharmacological Research
Int J Mol Sci
Cell Reports
Mol Brain
Epilepsia Open
Reproduction
Biochemistry and Biophysics Reports
Nutrients
General and Comparative Endocrinology
Animals
Journal of Zoological and Botanical Gardens
Proceedings of the Royal Society B-Biological Sciences
Journal of Wildlife Management
Conservation Physiology
Environ Sci Technol
Bmc Womens Health
Science Translational Medicine
Sci Rep
J Dermatol
Redox Rep
Redox Biology
Environmental Pollution
Antioxidants (Basel)
Journal of Thrombosis and Haemostasis
Neuropharmacology
Psychoneuroendocrinology
Alcohol
Behavioural Brain Research
Scientific Reports
Biomedicine & Pharmacotherapy
Biochimica Et Biophysica Acta-Molecular Basis of Disease
Neuropharmacology
Neurochemical Research
Journal of Psychopharmacology
Archives of Womens Mental Health
Journal of Physiology-London
Phytomedicine
Neuropharmacology

Brain Research Bulletin
Brain Research
Neuropharmacology
Dev Neurosci
Journal of Lipid Research
Front Endocrinol (Lausanne)
Journal of Infectious Diseases
Obesity Surgery
Chemosphere
American Journal of Clinical Nutrition
Clin Transplant
Basic and Clinical Andrology
Proceedings of the National Academy of Sciences of the United States of America
Journal of Pharmacology and Experimental Therapeutics
Biofactors
Bmc Biology
PLoS Biol
Frontiers in Microbiology
BMC Biol
Science Immunology
Neoplasia
JCI Insight
Nat Cell Biol
Proc Natl Acad Sci U S A
PLoS Pathog
Cell Rep
Cell Rep
Immunity
Nucleic Acids Research
Molecular Cell
Nature Communications
Acta Pharmacol Sin
Theranostics
Nucleic Acids Res
Elife
Molecular Cell
Microbiol Spectr
Molecular Cell
Cell
Nat Struct Mol Biol
Biol Sex Differ
Plos One
Heliyon
Biomed Pharmacother
IJDDT
Diabetes
Exp Mol Med
Free Radical Biology and Medicine
International Journal of Molecular Sciences
Kidney & Blood Pressure Research

Free Radical Biology and Medicine
Plos One
J Clin Invest
Journal of Immunology
Plos One
Renal Failure
Translational Research
Int J Obes (Lond)
Sci Rep
Am J Transl Res
Int J Biol Sci
Clinical and Experimental Nephrology
PLoS One
Pflugers Archiv-European Journal of Physiology
J Allergy Clin Immunol
Blood
Bioorganic & Medicinal Chemistry
Diabetes Res Clin Pract
Nat Genet
Scientific Reports
American Journal of Physiology-Renal Physiology
Kidney International
Oxidative Medicine and Cellular Longevity
Korean Journal of Physiology & Pharmacology
Kidney Int
Plos One
Cell Reports
Chemical Research in Toxicology
Jci Insight
Stem Cells and Development
Oncotarget
Scientific Reports
American Journal of Physiology-Renal Physiology
Circulation Research
Res Q Exerc Sport
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Animals
Respiratory Physiology & Neurobiology
Jacc-Basic to Translational Science
Biology of Reproduction
Domestic Animal Endocrinology
J Anim Sci

Department of Animal Science, University of Tennessee, Knoxville
Animal Reproduction Science
International Journal of Molecular Sciences

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Life-Basel
International Journal of Molecular Sciences
Scientific Reports
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Journal of Clinical Medicine
Journal of Applied Poultry Research
Nutr Metab Insights
Journal of Biomedical Science
Theriogenology
Redox Biology
Clinical Genetics
Comp Biochem Physiol C Toxicol Pharmacol
Oecologia
Antioxidants (Basel)
Frontiers in Neuroscience
Comparative Biochemistry and Physiology C-Toxicology & Pharm
Sci Total Environ
Mechanisms of Ageing and Development
Marine Ecology Progress Series
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Conservation Physiology
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General and Comparative Endocrinology
Plos One
Reprod Fertil
American Journal of Veterinary Research
Animals
North American Journal of Fisheries Management
Conservation Physiology
Zoo Biology
PeerJ
Conservation Physiology
Gen Comp Endocrinol
Integr Comp Biol
Commun Biol
Chiang Mai University Journal of Natural Science
Biology of Reproduction

DOI	Species
10.1016/j.redox.2018.08.003	Mouse
ARTN 11343610.1016/j.ygcen.2020.113436	Whale
10.1002/zoo.21396	Anteater
ARTN e022535410.1371/journal.pone.0225354	Cheetah
ARTN 10672110.1016/j.domaniend.2022.106721	Camel
10.1016/j.ygcen.2018.01.028	Stingray
ARTN coz03110.1093/conphys/coz031	Elephant
10.1016/j.theriogenology.2017.02.019	Gazelle
ARTN 80910.3390/ani12070809	Cheetah
	Dog
10.1002/zoo.21542	Anteater
10.19227/jzar.v10i2.654	Bird
ARTN 352610.3390/ani11123526	Cheetah Giraffe
10.1016/j.theriogenology.2021.12.011	Koala
10.1093/biolre/iox221	Shark
10.1016/j.applanim.2018.05.017	Sheep
ARTN 10460610.1016/j.yhbeh.2019.104606	Whale
ARTN e024191010.1371/journal.pone.0241910	Elephant
10.1016/j.ygcen.2018.07.011	Cheetah
10.1002/btm2.10437	Human
10.1021/acssensors.1c01951	Human
ARTN 27110.3390/chemosensors9090271	Human
https://doi.org/10.1016/j.therwi.2023.100026	Canada Lynx
ARTN 2710.1186/s40104-020-0428-4	Pig
ARTN 60410.3390/ani9090604	Gorilla
	Bear
ARTN 11326210.1016/j.ygcen.2019.113262	Pig
10.1111/omi.12075	Bacteria
10.1093/mutage/geq013	Human
	Human
10.1186/1746-6148-8-249	Dog
ARTN e00072010.1136/bmjdr-2019-000720	Human
10.1016/j.celrep.2022.110500	Mouse
10.1016/j.envpol.2017.12.005	Human
10.5271/sjweh.3414	Human
10.2527/jas.2017.1563	Cattle
10.1038/pr.2012.63	Human
10.1111/bph.12888	Mouse
10.1016/j.bcp.2012.10.014	Mouse
10.2196/42529	Human
ARTN e1326710.1111/apha.13267	Human
10.1161/Hypertensionaha.116.07849	Human
10.1093/ajh/hpx103	Human
10.1113/Ep087366	Rat
10.1172/jci.insight.155260	Mouse
10.1039/c9fo01743g	Rat
10.1089/neur.2022.0014	Rat
ARTN 463010.1038/s41467-018-07019-x	Human
10.7171/jbt.14-2504-004	Human

10.1002/eji.201646387	Human
10.1111/eos.12642	Human
10.1152/ajprenal.00037.2015	Mouse
10.1289/EHP10174	Human
https://doi.org/10.1016/j.smallrumres.2023.106955	Sheep
10.3168/jds.2013-6549	Cow
10.3168/jds.2013-7408	Cow
10.1038/mt.2012.154	Mouse
10.1016/j.phrs.2016.09.035	Human
10.1038/s41390-021-01553-z	Human
10.1513/AnnalsATS.202007-771OC	Human
ARTN e019623210.1371/journal.pone.0196232	Rat
10.1038/s41390-023-02646-7	Human
10.1016/j.cca.2022.05.005	Human
10.1093/tas/txab177	Cow
10.1016/j.vascn.2013.07.003	Rat
10.1016/j.bbrc.2013.09.133	Human
10.1038/s41598-022-25298-9	Primate
10.1159/000509038	Human
10.1016/j.ynstr.2022.100461	Rat
10.3168/jds.2020-19127	Cow
10.3168/jds.2016-12506	Cattle
10.1093/toxsci/kfab035	Rat
10.1152/ajprenal.00597.2011	Human
10.1152/ajprenal.00257.2015	Human
10.1007/s11306-014-0642-1	Human
10.1016/j.chroma.2015.04.011	Human
10.1007/s12011-022-03165-y	Human
10.1177/08853282231154342	Mouse
10.1016/j.ynstr.2021.100376	Mouse
10.1016/j.juro.2014.12.093	Rat
10.1093/tas/txaa120	Cow
10.1016/j.freeradbiomed.2015.05.020	Mouse
10.1093/beheco/arv176	Porcupine
10.1152/ajpregu.00416.2017	Rat
10.1016/j.freeradbiomed.2014.01.001	Rat
10.1016/j.celrep.2019.09.045	Mouse
ARTN 11363810.1016/j.ygcn.2020.113638	Frog
ARTN 26510.1186/s13104-021-05680-y	Dog
10.1152/ajprenal.00591.2014	Mouse
10.1096/fj.13-249250	Mouse
10.1093/ndt/gfu364	Rat
10.1152/ajprenal.00217.2015	Mouse
10.1016/j.ajpath.2014.07.009	Mouse
10.1016/j.envadv.2023.100361	Human
10.3390/ani11113310	Fish
ARTN 10470710.1016/j.psyneuen.2020.104707	Human
10.1007/s00417-021-05221-0	Human
	Human
10.1016/j.livsci.2018.02.002	Cattle

10.1016/j.psyneuen.2018.02.021	Rat
ARTN 10297510.1016/j.ergon.2020.102975	Human
ARTN 75310.3390/ani11030753	Fish
ARTN 73651010.1016/j.aquaculture.2021.736510	Fish
10.1016/j.surg.2022.09.027	Human
https://doi.org/10.1002/JPER.18-0028	Human
10.1002/JPER.18-0028	Human
10.1002/Jper.18-0028	Human
10.1016/j.ygcen.2017.07.003	Sea Lion
10.1093/jas/skac307	Cattle
ARTN 20PMID 3100769010.4103/jrms.JRMS_1148_17	Human
10.1016/j.anireprosci.2019.05.014	Boar
10.1111/aas.12604	Human
10.1186/s40635-015-0059-9	Human
	Tiger
ARTN e012198310.1371/journal.pone.0121983	Fish
10.1016/j.explore.2019.10.006	Human
10.1136/gutjnl-2014-307618	Human
ARTN 64610.3390/ani11030646	Cow
ARTN 51510.3389/fvets.2019.00515	Cow
10.3390/metabo13050631	Cattle
10.1016/j.livsci.2016.04.013	Cow
10.1177/1753425911428964	Cattle
10.1177/1753425912469673	Cattle
10.3168/jds.2016-11833	Cattle
10.1177/147323001204000228	Human
10.1016/j.nut.2014.03.019	Human
ARTN 11059210.1016/j.nut.2019.110592	Human
10.1093/tas/txab097	Cow
Artn 40010.1186/1471-2458-14-400	Human
10.3168/jds.2020-19106	Cow
10.1111/mms.12352	Dolphin
10.1016/j.ygcen.2018.05.015	Dolphin
ARTN e5921610.3791/59216	Koala
10.1007/s10695-013-9886-3	Fish
ARTN e364810.7717/peerj.3648	Primate
10.1530/Erc-15-0527	Mouse
10.3168/jds.2018-14493	Cow
ARTN 10556010.1016/j.applanim.2022.105560	Horse
ARTN e0331010.1016/j.heliyon.2020.e03310	Mouse
10.1002/ajpa.24368	Primate
10.1016/j.jveb.2015.05.002	Pig
10.1017/jns.2015.42	Human
	Elephant
10.1016/j.yhbeh.2022.105228	Livingstone's fruit bats
10.1111/asj.13247	Cattle
10.1111/asj.12828	Cow
10.1016/j.ygcen.2017.11.027	Goat
ARTN e016656410.1371/journal.pone.0166564	Fish
10.1038/s41598-022-04965-x	Bat

10.1093/ijnp/pyu043	Human
10.1002/zoo.21393	Gorilla
ARTN 2020003110.1098/rstb.2020.0031	Human
10.1080/10253890.2020.1846028	Human
ARTN 0100710.1051/e3sconf/202015101007	Cattle
10.1016/j.applanim.2017.02.007	Horse
10.3168/jds.2015-9759	Cow
10.1111/jir.12697	Human
10.1016/j.tice.2021.101550	Rat
10.3390/nu15071591	Human
ARTN 14140310.1016/j.scitotenv.2020.141403	Fish
	Human
10.3168/jds.2019-17710	Cow
ARTN 121410.3390/jcm11051214	Mouse
ARTN 111910.3390/ani10071119	Cow
ARTN 73627210.1016/j.aquaculture.2020.736272	Fish
10.1007/s10695-016-0297-0	Fish
10.1016/j.fsi.2019.04.047	Fish
ARTN 11307010.1016/j.socscimed.2020.113070	Human
10.1016/j.jevs.2017.07.009	Horse
ARTN 73719710.1016/j.aquaculture.2021.737197	Fish
ARTN 3510.3390/fishes3030035	Fish
ARTN 73574510.1016/j.aquaculture.2020.735745	Fish
ARTN 2310.1186/s12916-018-1009-7	Human
10.1016/j.jveb.2022.03.002	Dog
ARTN e011525710.1371/journal.pone.0115257	Dolphin
10.1002/ajhb.23976	Human
ARTN 456210.1038/s41598-019-41077-5	Mouse
10.1172/jci.insight.140229	Mouse
10.1016/j.yhbeh.2022.105237	Primate
10.3390/cells11121905	Human
	Pig
10.1080/24740527.2020.1870102	Human
ARTN 10392410.1016/j.brat.2021.103924	Human
Artn 019394591986711210.1177/0193945919867112	Human
10.1007/s10995-020-03008-z	Human
ARTN 10447810.1016/j.psyneuen.2019.104478	Human
10.1016/j.envint.2018.10.055	Human
10.1016/j.envint.2017.01.010	Human
10.1530/Erc-15-0472	Mouse
	Fish
10.1016/j.psyneuen.2022.105949	Human
10.1016/j.fsi.2019.08.064	Fish
10.1016/j.domaniend.2016.11.003	Dog
	Elephant
10.1093/jas/skaa252	Cow

10.1149/2.0781702jes	Human
ARTN 11124310.1016/j.mce.2021.111243	Human
10.3168/jds.2021-20162	Cow
ARTN 1512010.1038/s41598-017-15485-4	Human
10.14943/jjvr.69.2.99	Dolphin
10.1016/j.biopsych.2019.07.034	Human
10.1371/journal.pone.0228492	Cattle
ARTN e024485410.1371/journal.pone.0244854	Cow
10.1371/journal.pone.0278768	Cattle
	Horse
10.2460/ajvr.21.12.0201	Pig
ARTN 11058910.1016/j.envres.2020.110589	Human
10.1038/s41598-022-10274-0	Fish
https://doi.org/10.1016/j.aqrep.2022.101248	Gilthead Seabream
ARTN 10124810.1016/j.aqrep.2022.101248	Fish
10.1111/anu.12595	Fish
	Cow
	Human
	Gorilla
ARTN 11135310.1016/j.cbpa.2022.111353	Koala
	Human
	Orangutan
ARTN 1867610.1038/s41598-020-75693-3	Fish
10.1007/s10695-015-0084-3	Fish
10.3168/jds.2016-11237	Cow
10.1080/19440049.2015.1011713	Cow
10.1371/journal.pone.0271409	Lemur
ARTN 10647010.1016/j.smallrumres.2021.106470	Sheep
10.1016/j.dci.2020.103921	Fish
10.3390/nu13041321	Human
10.3168/jds.2019-16688	Cattle
ARTN 73577710.1016/j.aquaculture.2020.735777	Fish
10.18805/ljar.B-4240	Cow
10.3168/jds.2019-18118	Cow
ARTN 34010.3390/ani9060340	Dog
ARTN 129110.3390/nu12051291	Rat
10.3390/biom12121893	Rat
10.3390/antiox11040753	Rat
ARTN 1928710.1038/srep19287	Horse
10.1093/tas/txaa156	Cattle
10.1016/j.domaniend.2016.02.009	Cattle
10.2460/javma.23.02.0062	Cattle
	Hog Deer
10.1007/s10608-015-9722-4	Human
10.1007/s10964-016-0451-0	Human
	Horse
10.1002/dev.22147	Human
ARTN 73685210.1016/j.aquaculture.2021.736852	Fish
10.1093/jas/skad133	Cattle
ARTN 10617410.1016/j.anireprosci.2019.106174	Cow

ARTN 95310.1038/s41598-022-04986-6	Primate
10.1292/jvms.16-0633	Kangaroo
10.1016/j.jveb.2021.05.001	Kangaroo
	Dog
	Human
ARTN e012095210.1371/journal.pone.0120952	Human
10.1016/j.fsi.2017.07.011	Fish
10.1017/S1751731115000294	Cow
10.1210/clinem/dgab118	Human
Artn 03770110.1289/Ehp8923	Human
10.1152/physiolgenomics.00002.2022	Fish
10.1016/j.bios.2014.07.026	Human
ARTN 10624010.1016/j.cct.2020.106240	Human
ARTN 10419710.1016/j.livsci.2020.104197	Sheep
ARTN 365410.3390/nu13103654	Human
10.1002/dev.22352	Human
	Human
10.1007/s00360-022-01429-6	Squirrel
10.1016/j.ygcn.2022.114109	White-faced capuchin
10.1002/zoo.21320	Bonobo
ARTN coy04510.1093/conphys/coy045	Whale
ARTN 211110.1038/s41598-021-81073-2	Mouse Rat Opossum
10.1016/j.rvsc.2014.08.002	Cow
ARTN 17110.1007/s00265-018-2584-5	Antelope
10.1002/emmm.201302852	Mouse
10.1093/conphys/coaa069	Sea Lion Seal
10.1016/j.ygcn.2017.09.009	Whale
10.1590/2359-3997000000296	Human
10.2527/jas2016.0885	Cattle
10.1093/conphys/coaa115	Seal
10.1093/conphys/coaa073	Seal
ARTN coaa13410.1093/conphys/coaa134	Seal Sea Lion
	Primate
ARTN 10506010.1016/j.psyneuen.2020.105060	Guinea Pig
ARTN 334610.3390/ani11123346	Dog
https://doi.org/10.1002/wsb.1330	Wolf
10.1093/iob/obad007	Fish
10.1186/1475-2859-11-6	E. coli
10.3945/jn.109.120725	Mouse
10.1039/c5nr01974e	Microparticles
10.1021/bi2000214	E. coli
10.1016/j.aca.2018.02.057	Cow
10.1002/jbio.201400087	Mouse
ARTN e2171410.1096/fj.202100263R	Rat
ARTN e0883710.1016/j.heliyon.2022.e08837	Human
10.1016/j.aninu.2017.06.009	Pig
ARTN 10410.1007/s10661-017-6442-0	Mouse
10.1007/s10646-015-1443-7	Bird
10.1016/j.bpj.2015.09.002	Rabbit

10.1007/s00424-018-2122-3	Rabbit
10.1021/tx400036v	Human
10.1016/j.phrs.2016.09.022	Human
ARTN 474810.1038/s41598-019-41213-1	Zooplankton
ARTN 11392110.1016/j.envpol.2020.113921	Bird
10.1021/acs.est.5b00857	Bird
10.1016/j.micinf.2014.07.007	Human
10.1016/j.bbdis.2013.10.014	Human
10.1210/en.2009-0980	Human
10.1152/japplphysiol.00990.2016	Human
ARTN e0191910.1111/jav.01919	Bird
10.1016/j.redox.2017.10.004	Human
10.1016/j.bbrc.2013.11.075	Chemistry
10.1016/j.crtox.2022.100083	Rat
10.1155/2022/5394303	Rat
10.1016/j.abb.2017.09.020	Mouse
10.1111/ggi.13275	Human
DOI 10.2460/ajvr.76.7.649	Dog
10.1016/j.neurobiolaging.2013.12.002	Rat
ARTN 11310310.1016/j.marpolbul.2021.113103	Copepod
10.1038/srep00109	Human
10.1002/hep.27712	Human
Artn 710.5751/Ace-01411-140207	Bird
ARTN e014906910.1371/journal.pone.0149069	Mouse
10.1016/j.freeradbiomed.2019.12.037	Mouse
10.1159/000445631	Rat
10.1016/j.physbeh.2018.10.013	Human
ARTN 43310.1186/s13063-016-1553-4	Human
10.1152/japplphysiol.00760.2012	Rat
10.1016/j.aquatox.2014.03.011	Zooplankton
10.3892/mmr.2020.10968	Rat
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10.1016/j.cbpc.2018.09.005	Insect
ARTN 12725410.1016/j.chemosphere.2020.127254	Insect
10.1016/j.neurobiolaging.2016.02.004	Rat
10.1007/s00125-012-2581-6	Rat
10.1007/s00265-017-2299-z	Bird
DOI 10.18632/aging.100649	Human
ARTN e9491510.1371/journal.pone.0094915	Human
10.1016/j.bbrc.2017.01.025	Mouse
10.1016/j.abb.2017.08.008	Mouse
10.1016/j.bbrc.2017.04.119	Mouse
ARTN 1777210.1038/s41598-018-35728-2	Rat
10.1016/j.scitotenv.2016.09.131	Bird
10.1242/jeb.156752	Snake
10.1161/Atvbaha.120.314146	Mouse
10.1042/Bj20131361	Rat
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10.1007/s12640-015-9548-6	Human
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10.2131/jts.45.201	Dog
ARTN 48610.3389/fmars.2018.00486	Mollusk
	Rat
ARTN 155610.3390/jcm8101556	Human
10.1016/j.toxrep.2015.10.003	Mouse
10.1074/jbc.M109.098566	Human
10.1016/j.meatsci.2016.05.006	Pig
10.1016/j.foodres.2017.02.010	Chicken
10.1378/chest.14-2309	Human
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10.1007/s12011-020-02273-x	Rat
10.1152/ajplung.00288.2012	Rat
10.1691/ph.2015.4146	Mouse
10.1016/j.jchromb.2016.02.015	Human
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ARTN 785610.1038/s41598-020-64521-3	Mouse
10.1016/j.ecoenv.2015.05.029	Fish
10.1007/s00244-017-0450-5	Fish
ARTN 4010.3390/jcm7030040	Human
10.1242/jeb.093179	Turtle
10.1016/j.lfs.2014.04.009	Rat
ARTN 3479410.1038/srep34794	Human
10.1089/jir.2014.0210	Human
10.1016/j.nutres.2019.12.001	Human
10.1155/2013/402827	Human
10.1155/2012/734125	Human
10.1293/tox.28.165-170	Rat
DOI 10.1248/bpb.b19-00124	Mouse
10.4172/2155-6113.1000237	Human
10.3390/antiox10081267	Human
10.1016/j.tiv.2015.06.002	Human
10.3390/pathogens11121551	Human
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10.1016/j.bbacli.2016.05.006	Human
ARTN e00113610.1161/JAHA.114.001136	Mouse
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10.1186/s12989-022-00496-5	Mouse
10.1016/j.cub.2020.05.092	Onion
10.1172/JCI57817	Human
10.1016/j.nutos.2022.06.001	Rat
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10.1089/aid.2016.0303	Human
10.1016/j.fct.2014.10.022	Human
10.3390/ijms161226171	Human
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ARTN 3003310.1038/srep30033	Human
10.1016/j.plefa.2016.02.001	Human

10.1097/Scs.0000000000004904	Human Worm
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10.1017/S0007114511004806	Human
10.1021/acs.chemrestox.9b00526	Mouse
10.1007/s10646-019-02110-5	Turtle
10.1242/jeb.092700	Mouse Mouse
10.1007/s00128-019-02773-0	Shrimp
10.1016/j.bcnd.2014.07.018	Human
10.1159/000441273	Human
10.3390/biology11040527	Human Human
10.1016/j.arcmed.2018.04.002	Human
Artn 328636510.1155/2016/3286365	Human
10.1002/jbm.b.35130	Human
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10.1016/j.taap.2013.06.009	Mouse
10.1007/s00394-018-1643-z	Human
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10.1016/j.legalmed.2017.01.011	Human
10.1002/mnfr.201500688	Mouse
ARTN 11060810.1016/j.cbpa.2019.110608	Bird Rat
ARTN e100226910.1371/journal.pbio.1002269	Mouse
10.4049/jimmunol.1701328	Mouse
10.1016/j.celrep.2019.02.108	Mouse
10.4049/jimmunol.1400446	Human
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10.1016/j.immuni.2020.08.005	Mouse
10.1210/en.2014-1429	Mouse
ARTN 10983210.1016/j.pnpbp.2019.109832	Mouse
ARTN 10378010.1016/j.etap.2021.103780	Rat
10.1016/j.psj.2022.102215	Chicken
10.26873/Svr-766-2019	Chicken
10.1016/j.neuropharm.2012.12.007	Rat
ARTN 2710.1186/s13293-020-00303-w	Rat
10.55782/ane-2022-013	Mouse
10.3382/ps.2014-04193	Chicken
10.3382/ps/pew100	Bird
10.3382/ps/pev021	Chicken
ARTN 10022110.1016/j.ynstr.2020.100221	Mouse
10.3382/ps/pez248	Chicken
ARTN zsaa00310.1093/sleep/zsaa003	Mouse
10.1111/jsr.12269	Mouse
10.5187/jast.2020.62.6.884	Chicken
10.1016/j.applanim.2015.12.004	Armadillo Hedgehog Bird
10.1016/j.ejphar.2015.04.037	Mouse
10.1016/j.bbr.2016.01.014	Mouse

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10.1172/Jci96636	Mouse
10.1016/j.archoralbio.2017.04.005	Rat
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10.1016/j.ygcen.2019.04.008	Bird
10.1016/j.ygcen.2015.12.020	Bird
10.1210/en.2018-00118	Mouse
10.1016/j.neuroscience.2019.03.013	Mouse
ARTN 16310.1186/s12974-015-0387-4	Mouse
10.1177/00236772221142687	Rat
10.1002/jez.2406	Frog
10.1016/j.immuni.2022.01.013	Mouse
10.1016/j.neuropharm.2019.02.017	Mouse
10.1111/jne.12802	Rat
10.1016/j.physbeh.2014.05.012	Mouse
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10.1210/en.2014-1523	Mouse
10.1016/j.physbeh.2017.01.011	Rat
10.1002/glia.23796	Mouse
10.1111/1365-2656.13138	Frog
10.1172/Jci123233	Mouse
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10.1016/j.nlm.2018.10.002	Mouse
10.1016/j.rvsc.2019.01.026	Chicken
10.1111/epi.17186	Mouse
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ARTN 10281910.1016/j.jtherbio.2020.102819	Mouse
10.1111/cns.13113	Mouse
ARTN 40510.3390/brainsci10060405	Mouse
ARTN 85310.3390/antiox9090853	Rat
10.1016/j.bbih.2021.100337	Mouse
10.1038/s41586-021-03417-2	Mouse
10.1177/0748730415598608	Rat
10.1016/j.bbi.2020.12.014	Mouse
10.1016/j.cmet.2018.05.006	Mouse
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10.1093/ijnp/pyu075	Mouse
10.1016/j.neuropharm.2017.01.024	Mouse
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ARTN e246210.7717/peerj.2462	Bird
10.1007/s10336-016-1385-8	Bird
10.1016/j.ygcen.2015.08.012	Bird

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10.1016/j.expneurol.2022.114118	Mouse
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10.1016/j.dci.2017.04.007	Snake
10.1016/j.bbr.2016.09.024	Mouse
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10.1089/can.2019.0103	Rat
10.1007/s00213-020-05529-5	Rat
10.1111/asj.12823	Turkey
ARTN 11379510.1016/j.ygcen.2021.113795	Whale Lizard Squirrel Bird Echidna
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10.1016/j.plefa.2016.03.013	Mouse
10.1016/j.xpro.2021.100838	Mouse
10.1186/1756-0500-6-497	Mouse
10.1016/j.ygcen.2022.114147	Penguin
10.1016/j.devcel.2019.03.012	Mouse
10.3390/cells12050734	Mouse
10.1016/j.ygcen.2018.04.021	Bird
10.1016/j.physbeh.2016.08.027	Mouse
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10.1016/j.yhbeh.2022.105183	Mouse
10.1016/j.brainres.2018.11.037	Mouse
10.1530/Joe-12-0275	Mouse
10.1038/s41398-022-02103-9	Mouse
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10.1007/s11481-014-9562-0	Mouse
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10.1016/j.ygcen.2016.05.024	Bird
10.1096/fj.201800969R	Mouse
10.1902/jop.2013.130356	Rat
10.1016/j.mex.2022.101881	Lion
ARTN bqaa16310.1210/endo/bqaa163	Mouse
ARTN 98010.1038/s41467-019-09022-2	Mouse
10.1530/Jme-19-0158	Mouse
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ARTN e9266410.1371/journal.pone.0092664	Mouse

10.1016/j.yhbeh.2019.01.001	Frog
10.1016/j.lfs.2014.10.019	Rat
10.1038/s41386-021-01074-7	Rat
10.1007/s00125-019-4887-0	Mouse
10.1016/j.steroids.2016.10.008	Mouse
10.1038/s41398-022-01855-8	Mouse
ARTN 931810.1038/srep09318	Mouse
DOI 10.1038/nm1017-1241c	Mouse
10.1038/s41390-018-0270-y	Mouse
ARTN 10026010.1016/j.ynstr.2020.100260	Rat
10.1111/bph.13243	Mouse
10.1016/j.neuro.2012.08.010	Mouse
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10.1007/s11307-022-01728-y	Mouse Rat
10.1096/fj.14-266817	Rat
10.1016/j.ygcen.2022.114091	Bird
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10.1016/j.pbb.2018.03.007	Rat
10.1016/j.ygcen.2022.114126	Mouse
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10.1016/j.taap.2022.116085	Rat
10.1289/EHP11088	Rat
10.1093/toxsci/kfy198	Rat
10.1038/npp.2015.85	Mouse
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ARTN 26710.3390/nu12010267	Mouse
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10.1016/j.biomaterials.2023.122053	Mouse
10.1016/j.yhbeh.2018.07.012	Bird
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10.1080/10253890.2018.1553948	Vole
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10.1016/j.ygcen.2021.113916	Rat
10.1515/jbcpp-2021-0282	Mouse
ARTN 15522210.1016/j.cyto.2020.155222	Mouse
10.1016/j.ibror.2020.09.002	Mouse
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10.3136/fstr.26.501	Mouse
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10.1016/j.neuroscience.2015.11.006	Rat
10.1016/j.molimm.2017.08.011	Mouse
ARTN 25710.3389/fnbeh.2014.00257	Mouse
10.1152/japplphysiol.00237.2015	Rat
10.1016/j.applanim.2018.02.006	Rat
10.1152/ajpendo.00233.2021	Rat
10.1093/ijnp/pyw107	Rat
10.3390/ani13020249	Mouse
ARTN 39710.1186/s12906-017-1902-1	Mouse
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10.1096/fj.14-259770	Mouse
10.1038/nm.2724	Mouse
10.1016/j.psj.2020.07.024	Chicken
10.1016/j.bbrc.2017.11.148	Mouse
DOI 10.1248/bpb.b15-00471	Rat
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ARTN 10785710.1016/j.neuropharm.2019.107857	Rat
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ARTN 1010.3389/fnbeh.2020.00010	Mouse
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10.1016/j.npep.2015.11.091	Mouse
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10.1080/10253890.2021.1947235	Rat
10.1016/j.neures.2022.04.002	Mouse
10.1016/j.celrep.2021.109569	Mouse
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10.1093/beheco/ax116	Bird
10.1111/gbb.12139	Mouse
10.1016/j.nlm.2016.04.007	Mouse
10.1086/705361	Bird
10.1155/2012/956137	Rat
10.1016/j.nlm.2015.10.001	Rat
10.1111/ejn.13444	Rat
10.1093/icb/icy062	Bird
10.1111/jne.13212	Mouse
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10.1016/j.taap.2016.06.027	Rat
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10.1002/dev.21941	Rat
10.4049/jimmunol.2000719	Mouse
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10.1016/j.bbi.2018.07.014	Mouse
ARTN 10504710.1016/j.applanim.2020.105047	Rabbit
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10.1111/jne.12972	Mouse
10.1523/Jneurosci.3781-16.2017	Rat
10.1016/j.bbr.2016.09.006	Rat
10.1016/j.biopsy.2019.05.005	Mouse
ARTN 10454910.1016/j.psyneuen.2019.104549	Rat
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10.1016/j.expneurol.2015.12.016	Rat
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ARTN 44710.3389/fnbeh.2014.00447	Mouse
10.1111/andr.12254	Whale
ARTN 10036910.1016/j.ynstr.2021.100369	Mouse
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10.1016/j.bbrc.2018.03.032	Rat
ARTN 10026910.1016/j.ynstr.2020.100269	Mouse
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10.1016/j.bbi.2017.05.007	Rat
10.1371/journal.pone.0268155	Rat
10.1016/j.metabol.2013.09.005	Mouse
10.1016/j.vascn.2017.10.010	Rat
10.1016/j.neulet.2013.12.021	Rat
10.1080/01616412.2016.1173889	Rat
10.1242/jeb.245222	Mouse
10.1002/jez.1942	Bird
10.1002/jez.2097	Bird
DOI 10.15252/emmm.201405010	Mouse
ARTN 15310.3389/fnmol.2016.00153	Mouse
10.1016/j.molcel.2019.10.007	Mouse
10.1096/fj.15-278309	Mouse
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10.1016/j.celrep.2018.02.041	Mouse
ARTN 1631510.1038/s41598-020-73354-z	Lizard
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10.1038/tp.2016.202	Mouse
10.1111/1365-2435.12719	Bird
10.1016/j.ygcen.2017.01.023	Whale
10.1002/dev.22114	Rat
ARTN 674810.1038/s41598-017-06006-4	Rat
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10.1371/journal.pone.0057342	Rat
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10.1016/j.ygcen.2022.114092	Echidna
10.1016/j.ygcen.2022.114164	Frog
10.1038/nn.4116	Mouse
10.1016/j.euroneuro.2015.06.013	Mouse
10.1016/j.toxicon.2016.09.021	Mouse

10.1016/j.psyneuen.2019.06.018	Rat
10.1530/Ec-17-0361	Mouse
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10.1016/j.bbi.2020.04.015	Mouse
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10.1021/acscchemneuro.8b00265	Mouse
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ARTN bqac02410.1210/endo/bqac024	Mouse
ARTN 510.1186/s13567-017-0414-9	Chicken
10.1111/gbb.12319	Mouse
Artn 947538410.1155/2019/9475384	Mouse
	Bird
ARTN 1896010.1038/srep18960	Rat
10.1016/j.cell.2020.06.031	Mouse
10.1016/j.ntt.2016.02.005	Rat
10.1016/j.physbeh.2018.10.001	Mouse
Artn 41362910.1155/2014/413629	Rat
ARTN 1635310.1038/s41598-020-73361-0	Rat
Artn 02700110.1289/Ehp4977	Mouse
10.1016/j.neuro.2018.08.009	Mouse
10.1093/toxsci/kfy046	Mouse
10.2108/zs190067	Molerat
ARTN 36710.3390/brainsci9120367	Rat
10.1016/j.psyneuen.2017.06.006	Rat
10.1016/j.cub.2021.12.053	Mouse
ARTN 10467910.1016/j.psyneuen.2020.104679	Mouse
	Mouse
10.1016/j.bbr.2014.08.037	Mouse
10.1096/fj.202201514R	Rat
	Mouse
10.1016/j.neures.2016.04.008	Rat
10.3390/ijms24043153	Rat
10.1111/mec.15186	Bird
ARTN jeb24326210.1242/jeb.243262	Bird
10.1016/j.anbehav.2021.05.012	Bird
10.1093/beheco/arz010	Bird
10.1016/j.ibror.2019.10.002	Rat
10.1084/jem.20151100	Mouse
ARTN eabm063110.1126/sciimmunol.abm0631	Mouse
Doi 10.1638/2016-0008.1	Otter
10.1371/journal.pone.0279209	Mouse
10.1016/j.physbeh.2017.07.010	Rat
10.1007/s11011-016-9922-y	Mouse
ARTN 17399210.1016/j.ejphar.2021.173992	Mouse
10.1016/j.celrep.2022.111018	Mouse
10.1016/j.envres.2018.09.007	Rat

10.1016/j.etap.2021.103662	Rat
10.1016/j.ab.2018.12.005	Rat
10.1016/j.taap.2018.01.020	Rat
10.1093/toxsci/kft137	Rat
10.1007/s12079-017-0403-9	Mouse
10.1002/jdn.10004	Mouse
10.1080/19490976.2019.1701352	Rat
10.1007/s10530-022-02939-8	Eastern fence lizard
10.1016/j.neuro.2014.06.006	Mouse
	Rat
10.1111/1365-2656.13137	Bird
10.3390/nu14050975	Mouse
ARTN 10279010.1016/j.isci.2021.102790	Mouse
ARTN e5308310.15252/embr.202153083	Mouse
10.1016/j.cmet.2021.07.002	Mouse
10.1016/j.alcohol.2017.03.005	Rat
10.1016/j.ynstr.2022.100470	Rat
ARTN 2018072210.1098/rspb.2018.0722	Bird
	Mouse
10.1210/en.2017-00341	Mouse
ARTN 10762510.1016/j.drugalcdep.2019.107625	Rat
10.1002/ece3.3009	Pika
10.3382/ps/pey204	Chicken
Artn 04700210.1289/Ehp1575	Mouse
ARTN e5830110.7554/eLife.58301	Mouse
ARTN 17283510.1016/j.pbb.2019.172835	Mouse
	Pika
10.1093/jmammal/gyw097	Pika
10.1093/conphys/cot027	Pika
ARTN e011932710.1371/journal.pone.0119327	Pika
10.1002/ece3.1857	Pika
10.1371/journal.pone.0076146	Rat
	Bird
ARTN 2020084210.1098/rspb.2020.0842	Bird
ARTN 10487710.1016/j.applanim.2019.104877	Chicken
10.1007/s00436-015-4355-9	Mouse
10.1016/j.parint.2015.08.006	Vole
10.1038/s41586-021-03669-y	Mouse
10.1016/j.neuroscience.2015.01.044	Rat
10.1530/Joe-18-0449	Mouse
10.1210/en.2017-00301	Mouse
ARTN 11510810.1016/j.bone.2019.115108	Mouse
10.1242/jeb.244171	Mouse
ARTN 10778010.1016/j.neuropharm.2019.107780	Mouse
10.1186/s13041-023-01006-0	Mouse
10.1016/j.jsbmb.2023.106312	Mouse
10.1002/prp2.999	Mouse
10.1016/j.neuroscience.2017.03.005	Mouse
10.1016/j.bbi.2017.11.014	Mouse
10.1038/s41586-020-1935-3	Mouse

ARTN zqaa03410.1093/function/zqaa034	Mouse
10.1523/Jneurosci.5025-12.2014	Mouse
10.3390/ijms24020933	Mouse
ARTN 10503810.1016/j.yhbeh.2021.105038	Bird
10.1016/j.yhbeh.2022.105280	Bird
10.1089/neu.2018.5672	Rat
ARTN 541810.1038/s41598-020-62308-0	Mouse
10.1007/s00442-021-05078-4	Whale
ARTN 11054410.1016/j.cbpb.2020.110544	Lizard
10.1111/mms.12596	Whale
10.1093/humrep/dead017	Human
ARTN 11003510.1016/j.pnpbp.2020.110035	Mouse
ARTN 192210.3390/ijms23031922	Rat
10.1007/s00359-019-01354-0	Frog
10.1210/js.2018-00051	Rat
10.1016/j.ygcen.2022.114166	Bird
10.1016/j.antiviral.2016.08.011	Mouse
10.1016/j.yhbeh.2022.105261	Bird
ARTN 83010.3389/fmars.2019.00830	Whale
10.1007/s00284-020-02339-y	Antelope
10.1002/jez.2441	Bearded Dragon
ARTN e1001010.7717/peerj.10010	Elephant
10.1016/j.taap.2022.116295	Rat
10.1016/j.neurobiolaging.2015.02.002	Mouse
ARTN 10635910.1016/j.intimp.2020.106359	Mouse
	Rat
ARTN 177810.3390/jcm8111778	Human
ARTN 11626910.1016/j.bmc.2021.116269	Chemistry

10.1002/hep.25655	Human
10.1021/acs.molpharmaceut.6b00066	Mouse
10.1111/jmp.12342	Primate
10.1016/j.jconrel.2016.04.008	Horse
ARTN 10404110.1016/j.ebiom.2022.104041	Human

ARTN e016626710.1371/journal.pone.0166267	Dog
10.1016/j.psyneuen.2023.106075	Human
10.1002/zoo.21430	Flying Fox
ARTN 14510.3390/fishes7040145	Fish
ARTN gaab03810.1093/molehr/gaab038	Pig
ARTN dgz27410.1210/clinem/dgz274	Human
10.1016/j.anireprosci.2014.12.012	Sheep

10.1007/s11010-014-2290-1	Mouse
10.1016/j.mrfmmm.2014.03.001	Human
10.3831/KPI.2016.19.025	Rat
ARTN e00264-1710.1128/IAI.00264-17	Rat
10.1161/HYPERTENSIONAHA.113.02569	Human
10.1371/journal.pone.0047744	Mouse
10.1152/ajpheart.00185.2013	Rat
10.1016/j.ibmb.2016.01.001	Mosquito
10.1111/bph.12890	Mouse
10.1074/jbc.M112.413609	Mouse
10.1371/journal.pone.0059778	Mouse
10.1152/ajpheart.00285.2017	Rat
Artn Bsr2021080010.1042/Bsr20210800	Frog
10.1016/j.reprotox.2016.05.018	Mouse
10.1210/en.2016-1514	Human
ARTN e024032510.1371/journal.pone.0240325	Human
10.1371/journal.pone.0043004	Rat
10.1016/j.reprotox.2015.11.001	Boar
10.1093/pnasnexus/pgad055	Mouse
10.1210/jc.2015-1317	Human
10.1002/mrd.23128	Human
ARTN 39610.3389/fmicb.2015.00396	Bacteria
ARTN e012846810.1371/journal.pone.0128468	Mussels
ARTN 2410.1186/s13195-018-0352-4	Mouse
10.1074/jbc.AAC118.005397	Bacteria
10.1530/Jme-14-0298	Rat
10.1007/s00441-019-03123-6	Human
10.1016/j.bmc.2015.04.027	Human
10.1016/j.ejmech.2016.08.018	Rat
10.1016/j.mce.2015.12.008	Human
10.1152/ajprenal.00159.2014	Human
10.1152/ajprenal.00123.2022	Pig
10.1111/mmi.13087	Bacteria
ARTN 47510.3390/microorganisms9030475	Bacteria
10.1021/jm501273r	Human
10.1016/j.aquatox.2013.11.016	Mussels
10.1371/journal.pone.0061634	Mussels
10.1007/s00424-013-1321-1	Mouse
DOI 10.1248/bpb.b15-00566	Human
PMID 3063248610.4103/aja.aja_99_18	Human
10.1016/j.placenta.2015.05.011	Human
ARTN 1954010.1038/s41598-019-55995-x	Mouse
10.4269/ajtmh.16-0161	Human
ARTN e1296210.1111/cmi.12962	Human Bacteria
10.1113/Jp272320	Human
ARTN e11168010.1371/journal.pone.0111680	Bacteria
10.2174/2213988501711010019	Human
10.1016/j.theriogenology.2018.04.025	Pig
10.1038/hr.2015.17	Mouse
10.1128/lai.00986-15	Fish

10.1128/IAI.01106-13	Human
10.1128/Cvi.00248-16	Mouse
DOI 10.1248/bpb.b14-00283	Human
10.1002/jnr.23959	Human
10.1007/s10157-015-1101-7	Human
10.1530/Jme-15-0230	Human
10.1016/j.bbi.2019.08.191	Human
ARTN 21310.1186/s12944-016-0387-0	Mouse
Artn 797483510.1155/2020/7974835	Rabbit
ARTN 11108210.1016/j.mce.2020.111082	Human
10.1016/j.neurobiolaging.2013.03.011	Mouse
ARTN 11607110.1016/j.bmc.2021.116071	Human
10.1152/ajprenal.00515.2014	Rat
10.1371/journal.pone.0052683	Rat
ARTN 100810.3390/molecules25041008	Rabbit
ARTN 210.1186/s12958-016-0224-3	Mouse
10.1002/biof.1207	Mouse
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ARTN 4710.1186/s12970-020-00375-4	Human
10.1007/s10815-018-1248-8	Human
ARTN 2020002610.1098/rsfs.2020.0026	Fish
10.1038/s41598-022-20978-y	Human
10.1016/j.ejphar.2017.05.054	Rat
ARTN 10793510.1016/j.neuropharm.2020.107935	Rat
Artn 096032711989082610.1177/0960327119890826	Rat
10.1073/pnas.2012480117	Human
10.1371/journal.pone.0043091	Chicken
10.1038/s41598-021-90253-z	Seahorse
10.1016/j.kint.2018.07.022	Mouse
10.1371/journal.pone.0050157	Rat
10.1152/ajpendo.00329.2016	Rat
10.1074/jbc.M112.428458	Mouse
10.1016/j.psyneuen.2018.08.032	Mouse
10.1016/j.neuropharm.2015.10.036	Mouse
10.1186/s12967-022-03270-5	Human
10.1128/lai.02566-14	Fish
10.1016/j.archoralbio.2017.08.005	Human
10.3390/md13063877	Rat
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ARTN 22710.1186/s12915-021-01151-9	Cow
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10.1016/j.bbrc.2019.01.049	Mouse
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10.1128/mbio.01250-22	Edwardsiella piscicida
10.1074/jbc.M113.506584	Mouse
10.1007/978-1-4939-3387-7_19	Human
10.21769/BioProtoc.1055	Protozoa
DOI 10.1262/jrd.2016-156	Pig
ARTN 430010.3390/ijms20174300	Insect
10.1194/jlr.M027086	Mouse

10.1111/nmo.12775	Guinea Pig
ARTN 5410.1186/s12915-021-00978-6	Frog
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10.1016/j.biopha.2018.10.199	Rat
ARTN e019992710.1371/journal.pone.0199927	Rat
10.1007/s11010-018-3486-6	Mouse
ARTN 41210.1186/s13287-020-01925-y	Mouse
10.1007/s10557-018-6805-y	Dog
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10.1038/oncsis.2012.23	Human
10.1002/eji.201141569	Mouse
10.1074/jbc.M111.274308	Human
ARTN e019559910.1371/journal.pone.0195599	Panda
ARTN 10633510.1016/j.anireprosci.2020.106335	Water Buffalo
10.1016/j.theriogenology.2019.06.007	Dog
ARTN e012527010.1371/journal.pone.0125270	Rat
ARTN 15010.3389/fphys.2015.00150	Rat
10.1007/s10103-021-03416-9	Human
ARTN 04410310.1088/1748-605X/abebd1	Rat
10.1039/c6tb03323g	Human
10.1080/10717544.2022.2104405	Rat
10.1039/c8nr03874k	Human
10.1007/s10522-016-9675-3	Human
10.1007/s12015-014-9559-3	Human
ARTN e1338810.1111/accel.13388	Human
10.1016/j.biopha.2022.112705	Mouse
10.1016/j.joca.2015.04.026	Mouse
ARTN 11127010.1016/j.nut.2021.111270	Human
10.1016/j.jaci.2019.09.019	Mouse
10.1021/acsbiomaterials.7b00457	Mouse
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10.1007/s00418-019-01819-y	Human
10.1002/biof.1297	Human
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10.1111/jhn.12469	Human
10.1177/0394632015586135	Human
10.1016/j.nut.2017.06.013	Human
10.1016/j.bone.2016.04.013	Human
10.1016/j.nbd.2012.07.008	Mouse
ARTN e01045510.1161/JAHA.118.010455	Human
10.1111/bjh.14347	Human
10.1002/path.5985	Human
10.3390/antiox11071237	Human
10.1186/s12964-022-00884-6	Mouse
10.3168/jds.2021-21068	Cow
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ARTN e376510.1002/nbm.3765	Rat
ARTN 437910.1038/s41467-021-24609-4	Mouse
10.1111/febs.14100	Mouse
10.4049/jimmunol.1600306	Mouse
10.1089/ten.tea.2017.0069	Mouse
ARTN 152110.3390/nu13051521	Mouse
10.3390/vetsci9120696	Cattle
10.1152/ajprenal.00461.2016	Mouse
10.1038/s41467-021-23409-0	Mouse
10.1364/BOE.485187	Mouse
10.1016/j.bbdis.2019.01.024	Mouse
10.1152/physiolgenomics.00149.2020	Mouse
ARTN e013678110.1371/journal.pone.0136781	Mouse
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10.1016/j.abb.2015.09.021	Mouse
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10.1016/j.etp.2014.11.006	Mouse
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10.3892/mmr.2017.8335	Mouse
ARTN 135010.3390/jcm8091350	Human Mouse
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10.1016/j.bbrc.2016.12.108	Mouse
10.1111/bph.14978	Mouse
10.1681/Asn.2021050616	Mouse
10.1016/j.biomaterials.2016.06.013	Rat
10.1016/j.biopha.2022.113415	Mouse
10.1093/gerona/gly019	Mouse
10.1124/jpet.119.262782	Rat
10.1152/ajprenal.00156.2022	Mouse
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10.1016/j.jvssci.2021.09.022	Mouse
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10.1016/j.bbrc.2017.12.069	Rat
10.1172/Jci121987	Mouse
10.1080/0886022X.2022.2079525	Rat
10.1177/1010428317695960	Rat
10.1161/CIRCRESAHA.121.320060	Mouse
10.1016/j.cell.2022.11.029	Mouse
10.1089/ten.tea.2014.0573	Human
10.1371/journal.pone.0263300	Rat
10.1016/j.ajpath.2020.10.012	Mouse
10.1016/j.lfs.2014.05.007	Rat
10.1038/s41598-023-33444-0	Cattle
ARTN 10326910.1016/j.isci.2021.103269	Mouse

10.1007/s10157-021-02152-2	Mouse
10.1152/ajprenal.00097.2016	Mouse
10.1152/ajprenal.00243.2019	Mouse
10.1093/jas/sky022	Pig
10.1038/ki.2014.217	Mouse
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ARTN 17610.1186/s13287-017-0628-9	Human
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10.1093/tas/txz165	Cattle
ARTN 1910.3390/toxins10010019	Mouse
ARTN 219110.1038/s41598-021-81726-2	Mouse
10.1080/0886022x.2016.1244082	Pig
10.1111/jcmm.13926	Mouse
10.3168/jds.2020-19697	Cow
10.1016/j.yjmcc.2015.10.003	Mouse
10.1248/bpbreports.6.2_33	Mouse
ARTN 12016410.1016/j.lfs.2021.120164	Mouse
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ARTN e13982610.1172/jci.insight.139826	Mouse
ARTN 10244910.1016/j.nano.2021.102449	Mouse
ARTN 176410.3390/nu13061764	Human
10.1093/jn/nxz223	Rat
ARTN e018493910.1371/journal.pone.0184939	Cattle
10.14814/phy2.12732	Mouse
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10.1093/tas/txy117	Cow
10.1038/ki.2013.456	Rat
ARTN 11906810.1016/j.lfs.2021.119068	Mouse
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10.1007/s10616-017-0167-3	Human
10.1007/s13770-018-0162-6	Mouse
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10.1016/j.biomaterials.2018.10.022	Mouse
10.1016/j.bbrc.2015.11.023	Rat
ARTN 35210.1186/s12967-015-0710-y	Rat
10.3390/ijms24076086	Mouse
ARTN 33610.3390/nano12030336	Mouse
10.1002/sctm.17-0186	Mouse
10.1016/j.ygcen.2018.12.015	Dolphin
ARTN skab04410.1093/jas/skab044	Cow
10.1093/tas/txz130	Cow
ARTN 1003110.1038/s41598-018-28200-8	Whale
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10.1016/j.freeradbiomed.2017.09.029	Mouse
10.1016/j.taap.2014.03.017	Mouse
ARTN 389910.1038/s41467-021-24095-8	Mouse
ARTN 15210.3390/diagnostics10030152	Mouse
10.3390/ijms23063402	Rat
ARTN 10893910.1016/j.neuropharm.2021.108939	Rat

10.1111/jcmm.13765	Mouse
ARTN 10824510.1016/j.celrep.2020.108245	Mouse
10.1016/j.gene.2022.146583	Mouse
10.1016/j.bbagrm.2017.07.006	Mouse
ARTN 10549210.1016/j.phrs.2021.105492	Mouse
10.3892/mmr.2022.12898	Mouse
10.3390/pharmaceutics14122629	Mouse
10.1038/s41598-022-27015-y	Mouse
10.1152/ajprenal.00064.2022	Mouse
10.1002/zoo.21397	Donkey
10.5713/ajas.20.0187	Pig
10.1530/Raf-20-0071	Squirrel
10.1016/j.theriogenology.2022.08.011	Pig
ARTN cou03010.1093/conphys/cou030	Whale
ARTN 1277210.1038/s41598-019-49288-6	Panda
ARTN e019937710.1371/journal.pone.0199377	Snake
10.1093/cid/ciz443	Human
ARTN cow02410.1093/conphys/cow024	Whale
10.1016/j.anireprosci.2022.107070	Banteng
ARTN coz09110.1093/conphys/coz091	Tiger
ARTN 10538210.1016/j.applanim.2021.105382	Coyote
10.1016/j.ygcn.2018.06.006	Lizard
10.1016/j.brainresbull.2016.02.001	Mouse
10.1089/neu.2019.6670	Rat
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ARTN 11516410.1016/j.taap.2020.115164	Human
10.1089/neur.2021.0046	Rat
10.1172/jci.insight.138385	Human
10.3324/haematol.2019.242016	Mouse
10.1016/j.neuropharm.2015.10.001	Mouse
ARTN 39510.1186/s12906-017-1903-0	Mouse
ARTN bqz04310.1210/endocr/bqz043	Human
10.1159/000480006	Human
10.18632/oncotarget.22455	Human
10.1016/j.freeradbiomed.2019.11.019	Mouse
10.1523/JNEUROSCI.3612-12.2012	Mouse
ARTN e011654610.1371/journal.pone.0116546	Mouse
10.1016/j.cellsig.2015.03.022	Mouse
10.1161/Hypertensionaha.116.07572	Mouse
10.1016/j.freeradbiomed.2017.03.002	Human
ARTN dev18105710.1242/dev.181057	Mouse
ARTN 562710.1038/ncomms6627	Rat
10.1038/onc.2017.38	Mouse
ARTN 10683010.1016/j.eplepsyres.2021.106830	Rat
ARTN 10043810.1016/j.animal.2021.100438	Sheep
ARTN 20710.1186/s13287-018-0956-4	Human
10.1016/j.redox.2017.02.014	Rat
ARTN 10858510.1016/j.foodres.2019.108585	Human
ARTN 167310.3390/nu12061673	Human
10.1039/c4fo00903g	Rat

10.1371/journal.pone.0080485	Bird
10.1016/j.bbadis.2014.09.013	Human
10.1038/pr.2012.135	Sheep
10.1007/s13311-016-0438-2	Rat
10.1016/j.toxlet.2014.01.003	Rat
10.1021/acs.jafc.2c00809	Mouse
10.1021/acs.jafc.2c00809	Mouse
10.2169/internalmedicine.56.7002	Human
10.1016/j.brainres.2015.09.007	Rat
10.1080/10715762.2020.1825703	Human
10.1096/fj.201901010	Insect
10.1016/j.euroneuro.2019.05.002	Rat
ARTN 3863710.1038/srep38637	Shrimp
	Plant
ARTN 269310.3390/nu11112693	Rat
10.3892/ijmm.2016.2695	Mouse
10.3390/insects12080718	Insect Larvae
ARTN 11278210.1016/j.psychres.2020.112782	Human
10.1007/s11356-014-3847-y	Fish
10.1016/j.euroneuro.2021.02.001	Rat
10.1093/ijnp/pyab036	Rat
10.1155/2022/1795405	Rat
https://doi.org/10.1016/j.lwt.2023.114440	Bacteria
10.1016/j.psj.2021.101672	Chicken
10.1016/j.psj.2023.102542	Bird>Chicken
10.1292/jvms.19-0411	Cow
10.33256/hj30.4.197201	Tortoise
10.1016/j.scib.2020.03.040	Human
10.1096/fj.201900179RR	Mouse
10.1262/jrd.2019-146	Cow
10.1016/j.mce.2022.111808	Human
ARTN 10778410.1016/j.biopsycho.2019.107784	Human
10.1016/j.yhbeh.2023.105324	Lemur
10.3382/ps/pez224	Chicken
10.1002/zoo.21551	Wolf
	Pig
10.1177/1534735417704948	Mouse
10.1007/s10764-021-00197-4	Primate
10.3390/pathogens11030308	Mouse
10.1016/j.theriogenology.2018.07.020	Sea Lion
10.3390/curroncol29030144	Human
ARTN 4110.1186/s12958-016-0174-9	Frog
ARTN e020142010.1371/journal.pone.0201420	Panda
10.1016/j.yhbeh.2022.105214	Lizard
	Elephant
10.1002/ece3.7423	Deer

10.1007/s10682-022-10218-0	White-tailed deer
10.3184/175815617x15063340995383	Bird
10.1093/iob/obac014	Whale
10.1523/Eneuro.0145-17.2017	Mouse
10.1016/j.ygcen.2014.12.008	Mouse
10.1177/0192623319827477	Pig
ARTN 44910.3390/metabo11070449	Mouse
10.3390/ani11092477	Lizard
ARTN e023413110.1371/journal.pone.0234131	Pig
10.1016/j.jbc.2023.104783	Mouse
10.1177/1040638715618989	Turtle
10.1016/j.ygcen.2018.10.007	Lizard
10.1371/journal.pone.0255368	Whale
10.1007/s00360-021-01397-3	Lizard
	Axolotl
10.1177/07487304221092715	Rat
10.1093/icb/icac112	Squirrel
10.1038/s42003-022-03431-8	Squirrel
ARTN 11405310.1016/j.ygcen.2022.114053	Echidna
https://doi.org/10.1016/j.therwi.2022.100011	Elephant
10.1093/chemse/bjx054	Human
10.1021/acsaelm.9b00347	Bacteria
	Mouse
ARTN 10893010.1016/j.exer.2022.108930	Mouse
ARTN 3260410.1038/srep32604	Mouse
ARTN 342410.3390/nu12113424	Human
10.3390/antiox12051039	Pig
10.1371/journal.pone.0152017	Mouse
10.1084/jem.20220509	Mouse
ARTN 11807410.1016/j.lfs.2020.118074	Mouse
10.1080/00223131.2015.1078751	Mouse
10.3109/02652048.2015.1134685	Bacteria
ARTN e015255010.1371/journal.pone.0152550	Human
10.2147/IDR.S368890	Human
10.1016/j.aquaculture.2018.05.002	Fish
10.1016/j.biopha.2018.03.029	Plant
ARTN 1363710.1038/s41598-019-49883-7	Human
10.1016/j.bbrc.2015.06.112	Human
	Crab
10.1080/15287394.2015.1106357	Crab
10.4172/2324-8777.1000216	Crab
10.1016/j.ajpath.2018.04.004	Mouse
10.1017/S0007114521002294	Rat
ARTN 10351110.1016/j.jff.2019.103511	Human
10.1038/s43018-021-00194-9	Mouse
10.1016/j.bbi.2019.03.008	Human
ARTN e00368210.1161/JAHA.116.003682	Human
ARTN e019931710.1371/journal.pone.0199317	Insect
10.1016/j.freeradbiomed.2014.10.580	Human
ARTN 2064110.1038/s41598-020-75458-y	Human

10.1016/j.cbi.2016.05.024	Mouse
10.1016/j.bbrc.2018.06.024	Bacteria
10.1016/j.plaphy.2017.02.023	Plant
10.1039/c6lc00437g	Microparticles
10.1016/j.plaphy.2016.10.025	Plant
10.1016/j.freeradbiomed.2020.06.005	Mouse
ARTN 14410.1186/s12870-020-02355-x	Plant
ARTN 359810.1038/s41598-018-22076-4	Human
Artn 406190110.1155/2018/4061901	Human
ARTN 810.1007/s11883-020-0824-4	Human
10.1007/s11739-017-1750-5	Human
10.1002/tox.22397	Mouse
10.1016/j.jacbts.2021.08.002	Human
10.1016/j.redox.2022.102394	Pig
10.1016/j.redox.2022.102394	Pig
ARTN 84810.3390/biomedicines10040848	Human
10.1007/s10616-013-9618-7	Human
ARTN 14710.3390/catal11020147	E. coli
ARTN 2904110.1038/srep29041	Pig
ARTN 69810.3390/antiox11040698	Human
10.1242/jeb.114116	Bird
10.1002/ajpa.24299	Human
ARTN 10527710.1016/j.psyneuen.2021.105277	Human
10.1186/s13293-021-00388-x	Human
10.1530/RAF-22-0031	Cow
ARTN 4110.1186/s13293-021-00384-1	Giant Panda
10.1016/j.contraception.2016.10.001	Human
ARTN 229.e1-e810.1016/j.ajog.2020.01.059	Human
10.1249/Mss.0000000000001366	Human
10.1016/j.yhbeh.2017.08.005	Human
10.1017/S1751731118002161	Primate
ARTN e015584410.1371/journal.pone.0155844	Pig
10.1016/j.livsci.2019.07.018	Human
10.1111/bcp.13589	Pig
10.1038/tp.2016.226	Human
10.5114/biolSport.2017.65339	Human
ARTN 110.1186/s40850-021-00100-x	Human
10.31083/j.ceog.2020.05.2079	Fish
10.1177/09603271221119177	Mouse
10.1016/j.procbio.2019.03.030	Sheep
ARTN e018199310.1371/journal.pone.0181993	Seaweed
10.1093/jas/skac333	Human
10.3390/molecules27030857	Cattle
10.1111/1440-1681.13202	Human
10.3945/jn.114.205674	Rat
	Human
	Sheep

10.1093/tas/txab159	Cow
10.1093/jas/skac311	Cattle
10.1016/j.nut.2016.07.008	Human
ARTN 4810.1007/s11357-015-9781-1	Human
	Fox
ARTN 248810.3390/foods10102488	Kimchi
10.1007/s10068-020-00820-9	Mouse
10.1111/jpn.12946	Chicken
ARTN 275410.1038/s41598-020-59623-x	Human
10.1016/j.msec.2019.04.063	Mouse
ARTN 10181510.1016/j.addma.2020.101815	Mouse
10.1002/jcp.28081	Buffalo
10.1016/j.animal.2023.100805	Cattle
ARTN 3910.3390/pharmaceutics14010039	Rat
	Human
10.1016/j.physbeh.2018.04.012	Bonobo
10.1016/j.yhbeh.2021.105105	Human
ARTN 3169310.1038/srep31693	Dog
10.1002/dev.22115	Human
ARTN 17064910.1016/j.peptides.2021.170649	Mouse
10.1016/j.psyneuen.2021.105644	Human
10.1016/j.psyneuen.2019.04.007	Human
ARTN 14810.3389/fnbeh.2019.00148	Mouse
ARTN 10536810.1016/j.psyneuen.2021.105368	Mouse
ARTN 10582710.1016/j.psyneuen.2022.105827	Mouse
10.1002/zoo.21524	Gorilla
10.1007/s10329-022-01037-6	Gorilla
10.1016/j.euroneuro.2021.04.015	Human
ARTN 10638410.1016/j.domaniend.2019.106384	Pig
ARTN 10161310.1016/j.infbeh.2021.101613	Human
ARTN 11345110.1016/j.physbeh.2021.113451	Dog
ARTN 210210.1038/s41467-017-02279-5	Mouse
ARTN 10771810.1016/j.biopsycho.2019.107718	Human
10.1111/jne.13270	Human
ARTN 10501510.1016/j.yhbeh.2021.105015	Bird
10.1210/endocr/bqac188	Pig
10.1016/j.isci.2023.105978	Wolf Dog
ARTN 1442310.1038/s41598-021-93922-1	Dog
ARTN 10490110.1016/j.yhbeh.2020.104901	Dog Wolf
10.1038/s41598-021-92356-z	Dog Wolf Human
10.1080/15548627.2021.1899440	Human
10.1007/s00204-021-03163-4	Mouse
10.1002/ppul.24248	Pig
ARTN 10571210.1016/j.psyneuen.2022.105712	Human
10.1073/pnas.1607745113	Mouse
10.1177/0890334419838225	Human
10.2460/ajvr.21.08.0133	Horse
ARTN 11291610.1016/j.envpol.2019.07.084	Bird
10.1016/j.mce.2016.10.023	Bird
10.1038/s41598-023-32552-1	Mouse

ARTN 10482010.1016/j.yhbeh.2020.104820	Bird
ARTN 14654810.1016/j.scitotenv.2021.146548	Shark
	Dog
ARTN 627110.1038/s41598-018-24548-z	Human
10.1016/j.jim.2017,01.008	Human
ARTN e017571210.1371/journal.pone.0175712	Human
10.1152/ajpheart.00399.2019	Rat
10.1152/ajprenal.00514.2014	Rat
10.1097/Jsm.0000000000000569	Human
ARTN 32210.1186/s12967-018-1696-z	Human
ARTN 1978910.1038/srep19789	Rat
10.1016/j.ejmech.2016.02.005	Mouse
10.1042/Cs20160524	Mouse
10.1016/j.intimp.2018.06.016	Human
10.1152/japplphysiol.00512.2020	Human
10.1002/jcp.25348	Human
10.1111/jphp.12914	Rat
10.1016/j.phrs.2018.01.001	Mouse
ARTN 4416910.1038/srep44169	Mouse
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ARTN 13010.1186/s12974-021-02186-z	Rat
10.31925/farmacia.2022.2.6	Rat
ARTN 985310.1038/s41598-021-89220-5	Human
DOI 10.1016/j.jevs.2016.08.016	Horse
ARTN 70910.3390/nano10040709	Human
10.1152/japplphysiol.00461.2017	Horse
10.1016/j.phymed.2018.09.193	Mouse
10.1111/jne.12490	Rat
10.1016/j.bbi.2017.06.013	Mouse
10.3934/molsci.2018.3.173	Human
10.1016/j.jlr.2022.100192	Mouse
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ARTN e1479010.14814/phy2.14790	Human
10.22203/eCM.v042a01	Human
10.1016/j.foodchem.2022.133701	Rat
10.3390/molecules28031317	Mouse
10.1007/s12035-015-9543-1	Mouse
10.3390/pharmaceutics15051540	Human
10.1111/jcmm.12524	Human
ARTN 54810.3389/fphys.2016.00548	Human
ARTN 10094410.1016/j.jbc.2021.100944	Mouse
10.1016/j.bbi.2020.12.034	Mouse
10.1152/japplphysiol.01119.2016	Human
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ARTN 272710.3390/cells10102727	Mouse

10.1007/s00586-019-05901-w	Cow
10.1016/j.bbrc.2020.06.122	Human
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10.1021/acsptsci.2c00241	Human
10.4103/1673-5374.303039	Rat
10.1016/j.taap.2019.03.026	Mouse
10.1016/j.actbio.2016.06.013	Cattle
ARTN 208010.3390/nano10102080	Human
10.1007/s11010-017-3064-3	Mouse
10.1016/j.phrs.2016.09.010	Rat
10.3390/ijms24076143	Cattle
10.1016/j.celrep.2016.08.061	Human
10.1186/s13041-023-01008-y	Mouse
10.1002/epi4.12409	Rat
10.1530/Rep-16-0180	Cat Lynx
ARTN 10081610.1016/j.bbrep.2020.100816	Rat
ARTN 143610.3390/nu10101436	Rat
ARTN 11366410.1016/j.ygcn.2020.113664	Whale
ARTN 307410.3390/ani11113074	Lemur
	Chimpanzee Bonobo Gorilla
ARTN 2020106710.1098/rspb.2020.1067	Bird
10.1002/jwmg.21808	Fox
ARTN coaa01010.1093/conphys/coaa010	Elephant
10.1021/acs.est.1c06729	Fish
ARTN 3310.1186/s12905-021-01179-7	Human
ARTN eaay260210.1126/scitranslmed.aay2602	Pig
10.1038/s41598-022-24215-4	Human
10.1111/1346-8138.16670	Human
10.1080/13510002.2022.2123882	Human
ARTN 10218110.1016/j.redox.2021.102181	Human
ARTN 11381310.1016/j.envpol.2019.113813	Bird
10.3390/antiox11112217	Human
10.1111/jth.15075	Human
ARTN 10846310.1016/j.neuropharm.2021.108463	Rat
10.1016/j.psyneuen.2018.02.004	Human
10.1016/j.alcohol.2014.07.015	Mouse
10.1016/j.bbr.2017.07.019	Mouse
ARTN 236410.1038/s41598-019-38858-3	Mouse
ARTN 11359810.1016/j.biopha.2022.113598	Mouse
10.1016/j.bbadis.2017.09.007	Mouse
10.1016/j.neuropharm.2017.06.023	Mouse
10.1007/s11064-020-03036-9	Rat
Artn 026988111989630410.1177/0269881119896304	Mouse
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ARTN 15422510.1016/j.phymed.2022.154225	Rat
ARTN 10823010.1016/j.neuropharm.2020.108230	Rat

10.1016/j.brainresbull.2020.10.013	Mouse
10.1016/j.brainres.2016.06.001	Mouse
10.1016/j.neuropharm.2016.11.004	Rat
10.1159/000530282	Guinea Pig
10.1194/jlr.RA119000479	Mouse
10.3389/fendo.2020.552805	Mouse
10.1093/infdis/jiaa088	Human
10.1007/s11695-019-03895-4	Human
10.1016/j.chemosphere.2013.10.077	Rat
10.3945/ajcn.115.112383	Human
10.1111/ctr.12271	Human
ARTN 1310.1186/s12610-021-00131-x	Human
10.1073/pnas.1509277112	Rat
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10.1002/biof.1705	Rat
ARTN 14410.1186/s12915-018-0613-5	Algae
10.1371/journal.pbio.3001684	C. elegans
ARTN 302410.3389/fmicb.2019.03024	Mosquito
10.1186/s12915-021-01106-0	Insect Larvae
ARTN eaba421910.1126/sciimmunol.aba4219	Human
10.1016/j.neo.2022.100856	Human Mouse
10.1172/jci.insight.167270	Human
10.1038/s41556-022-00950-8	Human
10.1073/pnas.2211047120	Mouse
10.1371/journal.ppat.1010233	Worm
10.1016/j.celrep.2023.112275	Mouse
10.1016/j.celrep.2023.112309	Human
10.1016/j.immuni.2022.08.006	Mouse
10.1093/nar/gkab500	Human
10.1016/j.molcel.2020.12.037	Human
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10.1038/s41401-022-01002-5	Mouse
10.7150/thno.65427	Garlic
10.1093/nar/gkab451	Human
ARTN e4749110.7554/eLife.47491	Human
10.1016/j.molcel.2022.03.034	Mouse
10.1128/spectrum.01550-22	Mouse
10.1016/j.molcel.2021.01.024	E. coli
10.1016/j.cell.2022.12.041	Bacteria
10.1038/s41594-022-00862-z	E. coli
10.1186/s13293-023-00498-8	Mouse
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10.1016/j.heliyon.2022.e10373	Mouse
10.1016/j.biopha.2022.113411	Rat
	Human
10.2337/db14-0779	Mouse
10.1038/s12276-022-00810-3	Rat
10.1016/j.freeradbiomed.2020.01.023	Rat
ARTN 127610.3390/ijms22031276	Mouse
10.1159/000481804	Mouse

10.1016/j.freeradbiomed.2018.12.002	Mouse
ARTN e10209610.1371/journal.pone.0102096	Mouse
10.1172/JCI44771	Mouse
10.4049/jimmunol.1400497	Mouse
ARTN e015701210.1371/journal.pone.0157012	Mouse
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10.1016/j.trsl.2019.07.005	Mouse
10.1038/s41366-022-01103-5	Mouse
10.1038/s41598-023-31454-6	Rat
	Mouse
10.7150/ijbs.4654	Mouse
10.1007/s10157-020-01898-5	Mouse
10.1371/journal.pone.0054514	Mouse
10.1007/s00424-021-02604-4	Mouse
10.1016/j.jaci.2012.04.023	Mouse
10.1182/blood.2019002653	Mouse
10.1016/j.bmc.2014.07.007	Mouse
10.1016/j.diabres.2012.09.034	Human
10.1038/ng.976	Human
ARTN 1360110.1038/srep13601	Mouse
10.1152/ajprenal.00057.2017	Mouse
10.1038/ki.2014.343	Pig
ArtN 994777210.1155/2021/9947772	Mouse
10.4196/kjpp.2018.22.5.567	Mouse
10.1016/j.kint.2022.06.030	Mouse
ARTN e10719210.1371/journal.pone.0107192	Rat
10.1016/j.celrep.2017.05.080	Mouse
10.1021/acs.chemrestox.5b00519	Mouse
ARTN e13982310.1172/jci.insight.139823	Mouse
10.1089/scd.2020.0030	Pig
10.18632/oncotarget.16292	Rat
ARTN 126310.1038/s41598-018-19750-y	Mouse
10.1152/ajprenal.00535.2019	Mouse
10.1161/Circresaha.120.316970	Mouse
10.1080/02701367.2022.2130131	Human
10.1038/s41598-022-21248-7	Mouse Rat
10.1016/j.phymed.2020.153393	Mouse
ARTN e020039110.1371/journal.pone.0200391	Mouse
10.1002/art.39004	Mouse
10.1152/japplphysiol.00016.2020	Rat
ARTN 218910.3390/ani10112189	Pig
https://doi.org/10.1016/j.resp.2023.104039	Guinea Pig
10.1016/j.jacbts.2019.12.009	Mouse
10.1093/biolre/iox156	Cattle
ARTN 10651510.1016/j.domaniend.2020.106515	Cow
10.1093/jas/skac152	Cow
ARTN 10662210.1016/j.anireprosci.2020.106622	Pig
ARTN 229710.3390/ijms21072297	Crab

10.1016/j.celrep.2022.110848	Mouse
10.1016/j.theriogenology.2020.04.038	Cow
ARTN 25110.3390/life11030251	Mouse
ARTN 252310.3390/ijms23052523	Mouse
ARTN 1057310.1038/s41598-017-10135-1	Mouse
10.1093/jas/skac136	Cow
ARTN 203710.3390/jcm9072037	Human
10.3382/japr/pfz094	Chicken
10.1177/1178638817693824	Mouse
ARTN 310.1186/s12929-022-00787-1	Mouse
10.1016/j.theriogenology.2019.11.010	Buffalo
10.1016/j.redox.2017.01.018	Plant
10.1111/cge.12841	Human
10.1016/j.cbpc.2013.01.003	Bat
10.1007/s00442-014-2959-x	Bat
10.3390/antiox11112125	Human
ARTN 63881010.3389/fnins.2021.638810	Human
10.1016/j.cbpc.2014.08.004	Bird
10.1016/j.scitotenv.2013.03.033	Bird
10.1016/j.mad.2017.10.002	Mouse
10.3354/meps11471	Zooplankton
ARTN e022153710.1371/journal.pone.0221537	Elephant
ARTN coaa11610.1093/conphys/coaa116	Elephant
ARTN 192810.3390/ani10101928	Elephant
ARTN 11399010.1016/j.yggen.2022.113990	Elephant
ARTN e021732610.1371/journal.pone.0217326	Elephant
10.1530/RAF-22-0039	Dolphin
DOI 10.2460/ajvr.80.10.931	Stingray
ARTN 271610.3390/ani11092716	Stingray
10.1002/nafm.10732	Fish
ARTN coy07710.1093/conphys/coy077	Elephant
10.1002/zoo.21559	Crocodile
10.7717/peerj.14323	Chimpanzee
ARTN coaa13310.1093/conphys/coaa133	Whale
10.1016/j.yggen.2021.113828	Whale
10.1093/icb/icab093	Lizard
10.1038/s42003-022-03574-8	Elephant
	Cow
10.1093/biolre/ioz036	Elephant

Sample Type

Brain

Serum

Urine

Fecal

Fecal

Serum

Blood

Fecal

Fecal

Serum

Fecal

Fecal

Fecal

Plasma

Plasma

Fecal

Blubber

Urine

Fecal

Urine

Urine

Urine

Fecal

Serum

Saliva

Fecal

Fecal

Cell lysate

Serum

Urine

Urine

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Blood | Urine
Serum | Urine
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Fluid
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Urine
Plasma | Urine
Serum | Urine
Serum
Serum | Urine
Urine
Plasma
Hair
Serum
Saliva
Serum

Plasma
Saliva
Plasma
Plasma
Cell culture
Serum
Saliva | serum
Serum | Saliva
Blubber
Plasma
Saliva
Tissue homogenate
Plasma
Plasma
Fecal
Blood
Saliva
Tissue homogenate
Serum
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Serum
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Serum
Serum
Plasma
Plasma
Serum
Serum
Serum
Blood
Serum
Blubber
Serum | Blubber | Fecal
Fur
Serum
Urine
Urine
Plasma
Saliva
Cell culture
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Saliva
Fecal
Nail
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Fecal | Blood
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Blood
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Hair
Serum
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Serum

Plasma
Plasma
Plasma
Nail
Saliva
Serum
Plasma
Plasma
Plasma
Urine
Blubber
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Plasma
Serum
Fecal
Tissue lysate
Saliva
Serum
Urine
Hair
Hair
Hair
Blood
Blood | Urine
Cell culture
Serum

Saliva
Serum
Nail
Fecal
Serum

Saliva
Cell culture
Plasma | Serum | Supernatant
Cell culture
Plasma
Plasma
Serum
Serum
Serum
Saliva
Serum
Saliva
Fluid
Plasma
Plasma
Plasma
Plasma
Saliva
Fecal
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Saliva
Saliva
Plasma
Serum
Serum
Serum
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Plasma
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Serum | Plasma
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Plasma
Serum | Saliva | Urine
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Serum
Urine | Fecal
Saliva
Saliva
Fecal | Plasma
Hair
Plasma
Blood
Serum

Fecal
Plasma
Hair
Fecal
Saliva
Hair
Serum | Supernatant | Cell lysate

Hair
Cell culture
Plasma
Fecal
Saliva
Nail
Blood
Saliva
Saliva
Hair
Fecal
Fecal
Urine
Baleen
Fur
Serum
Fecal
Tissue homogenate
Hair
Baleen
Saliva
Serum
Claw
Claw
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Saliva
Fur | Claw
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Cell lysate
Tissue homogenate
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Cell culture
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Supernatant
Tissue homogenate
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Brain
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Fecal
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Baleen
Cell culture
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Fecal | Blood
Serum | Fecal
Fecal
Plasma
Fecal
Urine
Blood
Supernatant
Tissue homogenate
Blood

Tissue homogenate
Tissue homogenate
Plasma
Serum
Blood

Serum
Saliva
Fecal | Urine
Scales
Cell culture
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Cell culture

Cell lysate
Cell lysate
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Cell lysate
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Tissue homogenate
Cell lysate
Tissue homogenate
Cell lysate
Plasma | Tissue homogenate
Tissue homogenate
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Tissue lysate
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Tissue homogenate
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Tissue homogenate
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Tissue homogenate
Tissue homogenate | Blood
Tissue lysate
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Tissue homogenate
Cell culture
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Tissue homogenate
Tissue homogenate
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Uterine Lavage
Tissue homogenate
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Cell culture
Urine
Urine | Serum
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Cell culture
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Tissue homogenate
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Tissue homogenate
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Tissue supernatant
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Saliva
Cell culture
Tissue homogenate
Cell lysate
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Tissue homogenate
Cell culture
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Cell culture | Tissue homogenate

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Saliva
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Urine
Plasma
Plasma
Serum
Fecal | Saliva | Urine | Serum
Fecal

Blubber
Baleen
Plasma
Fecal
Fecal
Serum | Urine

Kit Name

Glutathione (GSH) Monoclonal Antibody

Goat anti-Mouse IgG

Goat anti-Mouse IgG | Goat anti-Rabbit IgG

Goat anti-Mouse IgG | Goat anti-Rabbit IgG

Goat anti-Mouse IgG | Goat anti-Rabbit IgG

Goat anti-Mouse IgG | Goat anti-Rabbit IgG

Goat anti-Mouse IgG | Coating Buffer

Goat anti-Mouse IgG | Coating Buffer

Goat anti-Mouse IgG | Assay Buffer

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG

Goat anti-Rabbit IgG | Goat anti-Mouse IgG

Goat anti-Rabbit IgG | Washer Buffer Concentrate | TMB Substrate | Stop Solution | Goat anti-Mouse

Goat anti-Rabbit IgG | TMB Substrate | Stop Solution | Coating Buffer | Blocking Buffer

PGE₂ Monoclonal Antibody

PGE₂ Monoclonal Antibody

PGE₂ Monoclonal Antibody

Testosterone Mini-Kit

Cortisol ISWE Mini-Kit

Cortisol ISWE Mini-Kit

Cortisol ISWE Mini-Kit | DNA Damage ELISA Kits

Progesterone ISWE Mini-Kit

Formaldehyde Fluorescent Detection Kit

Formaldehyde Fluorescent Detection Kit

Urinary Creatinine Detection Kit

Urinary Creatinine Detection Kit

Urinary Creatinine Detection Kit

Urinary Creatinine Detection Kit

Urinary Creatinine Detection Kit

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Urinary Creatinine Detection Kit | Corticosterone ELISA Kit
Urinary Creatinine Detection Kit | Urea Nitrogen (BUN) Colorimetric Detection Kits
Urinary Creatinine Detection Kit | Urea Nitrogen (BUN) Colorimetric Detection Kits
Urinary Creatinine Detection Kit | Urea Nitrogen (BUN) Colorimetric Detection Kits
Urinary Creatinine Detection Kit | Urea Nitrogen (BUN) Colorimetric Detection Kits
Urinary Creatinine Detection Kit | Urea Nitrogen (BUN) Colorimetric Detection Kits | Serum Creatinine
Urinary Creatinine Detection Kit | urea Nitrogen (BUN) Colorimetric Detection Kits | Serum Creatinine
Urinary Creatinine Detection Kit | Progesterone ELISA Kits | Estradiol ELISA Kits | Cortisol EIA Kit
Urinary Creatinine Detection Kit | Testosterone ELISA Kits
Urinary Creatinine Detection Kit | Testosterone ELISA Kits | Progesterone ELISA Kits
Urinary Creatinine Detection Kit | Retinol Binding Protein (RBP) Multi-Format ELISA Kits
Urinary Creatinine Detection Kit | Serum Creatinine Detection Kits
Urinary Creatinine Detection Kit | Serum Creatinine Detection Kits
Urinary Creatinine Detection Kit | Serum Creatinine Detection Kits
Urinary Creatinine Detection Kit | Serum Creatinine Detection Kits
Urinary Creatinine EIA Kit
Cortisol ELISA Kit
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Glutathione (GSH) Colorimetric Detection Kit
Cortisol EIA Kit
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Cortisol EIA Kit

Glutathione (GSH) Colorimetric Detection Kit | Nitric Oxide (NO) Colorimetric Detection Kit
Glutathione (GSH) Colorimetric Detection Kit | Superoxide Dismutase (SOD) Colorimetric Activity Kit |
Glutathione S-Transferase (GST) Fluorescent Activity Kit
Glutathione S-Transferase (GST) Fluorescent Activity Kit
Glutathione S-Transferase (GST) Fluorescent Activity Kit
Glutathione S-Transferase (GST) Fluorescent Activity Kit
Glutathione Reductase (GR) Fluorescent Activity Kit
Histone Demethylase (HDM) Fluorescent Activity Kit
P450 Demethylation Fluorescent Activity Kit
Cystatin C Human ELISA Kit
Cystatin C Human ELISA Kit
Cystatin C Human ELISA Kit
Cystatin C Human ELISA Kit
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Hemoglobin Colorimetric Detection Kit
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Corticosterone Chemiluminescent ELISA Kit
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Corticosterone ELISA Kit | Urinary Creatinine Detection Kit
Corticosterone ELISA Kit | Cortisol ELISA Kit
Corticosterone ELISA Kit | Cortisol ELISA Kit
Corticosterone ELISA Kit | Cortisol EIA Kit | Assay Buffer
Corticosterone ELISA Kit | Cortisone ELISA Kits
Corticosterone ELISA Kit | Cyclic AMP Direct ELISA Kits
Corticosterone ELISA Kit | Progesterone ELISA Kits
Corticosterone ELISA Kit | Estradiol ELISA Kits | Testosterone ELISA Kit
Corticosterone ELISA Kit | Testosterone ELISA Kit
Corticosterone ELISA Kit | Testosterone ELISA Kits
Corticosterone ELISA Kit | Hydrogen Peroxide (H₂O₂) Colorimetric Detectio
Corticosterone ELISA Kit | Thyroxine (T₄) ELISA Kits
Corticosterone ELISA Kit | Aldosterone ELISA Kits
Corticosterone ELISA Kit | Triiodothyronine (T₃) ELISA Kits
Corticosterone ELISA Kit | DNA Damage ELISA Kits
Corticosterone ELISA Kit | Assay Buffer
Corticosterone Multi-Format ELISA Kits | Urinary Creatinine Detection Kits
Acetylcholinesterase Fluorescent Activity Kit
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Cortisone Chemiluminescent ELISA Kits
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Cyclic AMP Direct Chemiluminescent ELISA Kits

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Cyclic AMP Direct ELISA Kits | Cyclic GMP Direct ELISA Kits
Cyclic AMP Direct ELISA Kits | Protein Kinase A (PKA) Colorimetric Activity Kit
Cyclic AMP Direct ELISA Kits | PGE₂ Multi-Format ELISA Kits

Superoxide Dismutase (SOD) Colorimetric Activity Kit
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Superoxide Dismutase (SOD) Colorimetric Activity Kit | Glutathione (GSH) Colorimetric Detection Kit
Superoxide Dismutase (SOD) Colorimetric Activity Kit | Catalase Colorimetric Activity Kit
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Superoxide Dismutase (SOD) Colorimetric Activity Kit | Catalase Colorimetric Activity Kit | Glutathione
Superoxide Dismutase (SOD) Colorimetric Activity Kit | Catalase Colorimetric Activity Kit
Superoxide Dismutase (SOD) Colorimetric Activity Kit | DNA Damage ELISA Kits
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Estradiol ELISA Kits | Progesterone ELISA Kits | Testosterone ELISA Kits
Estradiol ELISA Kits | Estrone ELISA Kits
Estradiol ELISA Kits | Estrone ELISA Kits | Estrone-3-Glucuronide (E1G) ELISA Kits | Progesterone ELISA
Estradiol ELISA Kits | Testosterone ELISA Kits

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Testosterone ELISA Kit | Goat anti-Rabbit IgG
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Testosterone ELISA Kits | Progesterone ELISA Kits
Testosterone ELISA Kits | Progesterone ELISA Kits | Triiodothyronine (T₃) ELISA Kits | Co
Testosterone ELISA Kits | Estradiol ELISA Kits
Testosterone ELISA Kits | Estradiol ELISA Kits
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Testosterone ELISA Kits | Corticosterone Multi-Format ELISA Kits | Triiodothyronine (T₃) ELISA Kits | Co
Catalase Fluorescent Activity Kit
Catalase Colorimetric Activity Kit
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Catalase Colorimetric Activity Kit | Superoxide Dismutase (SOD) Colorimetric Activity Kit
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Catalase Colorimetric Activity Kit | Superoxide Dismutase (SOD) Colorimetric Activity Kit | Ceruloplas
Hydrogen Peroxide (H₂O₂) Fluorescent Detection Kits

FRAP (Ferric Reducing Antioxidant Power) Detection Kit
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FRAP (Ferric Reducing Antioxidant Power) Detection Kit | Catalase Colorimetric Activity Kit | Hydroge
Insulin ELISA Kit
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Insulin ELISA Kit
Oxytocin EIA Kit
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Oxytocin ELISA Kits | Arg⁸-Vasopressin (AVP) ELISA Kits
Arg⁸-Vasopressin (AVP) Chemiluminescent ELISA Kits
Arg⁸-Vasopressin (AVP) ELISA Kits
Arg⁸-Vasopressin (AVP) Chemiluminescent ELISA Kits
Arg⁸-Vasopressin (AVP) Chemiluminescent ELISA Kits | Oxytocin EIA Kit
Arg⁸-Vasopressin (AVP) ELISA Kits
Thyroxine (T₄) ELISA Kits
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Thyroxine ELISA Kit

Serum Creatinine Detection Kits
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Serum Creatinine Detection Kits | Urinary Creatinine Detection Kit
Serum creatinine Detection Kits | Urinary Creatinine Detection Kit
Serum Creatinine Detection Kits | Cystatin C Human ELISA Kit
Serum Creatinine Low Sample Volume Kit (384-Well Plate) | Urea Nitrogen (BUN) Colorimetric Detect
Serum Creatinine Detection Kits | Urea Nitrogen (BUN) Colorimetric Detection Kits
Serum Creatinine Detection Kits | Urea Nitrogen (BUN) Colorimetric Detection Kits
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Estradiol ELISA Kits
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Serum 17_-Estradiol ELISA Kits | PGFM ELISA Kits
ThioStar® Thiol Detection System
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Washer Buffer Concentrate
Washer Buffer Concentrate
Washer Buffer Concentrate
Washer Buffer Concentrate
Washer Buffer Concentrate | Assay Buffer
Goat anti-Rabbit IgG
Goat anti-Rabbit IgG Coated Plate | Dissociation Reagent
Dissociation Reagent
Dissociation Reagent
Stop Solution | TMB Substrate | Blocking Buffer | Washer Buffer Concentrate | Coating Buffer | Goat
Assay Buffer
Assay Buffer
Assay Buffer | Testosterone ISWE Mini-Kit | Progesterone ISWE Mini-Kit | Cortisol ISWE Mini-Kit
Assay Buffer | Progesterone ELISA Kits
Assay Buffer | Testosterone ELISA Kits
Assay Buffer | Washer Buffer Concentrate
Coating Buffer | Goat anti-Mouse IgG | Goat anti-Rabbit IgG
Coating Buffer | Blocking Buffer | Assay Buffer | Washer Buffer Concentrate | Goat anti-Mouse IgG

Kit Number

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A008 | A009

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A008 | X108

A008 | X108

A008 | X109

A009

A009

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A009 | A008

A009 | X007 | X019 | X020 | A008 | X108 | X109

A009 | X019 | X020 | X108 | X109

A011

A011

A011

ISWE001

ISWE002

ISWE002

ISWE002 | K059-H

ISWE003

K001-F

K001-F

K002-H

K002-H

K002-H

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K003-H | K014-H

K003-H | K014-H

K003-H | K014-H | K052-H | K032-H

K003-H | K014-H | X065

K003-H | K017-C

K003-H | K024-H

K003-H | K025-H

K003-H | K025-H

K003-H | K025-H | K032-H | KB30-H

K003-H | K032-H

K003-H | K061-H | K032-H | K025-H

K003-H | X012

K003-H | K025-H | K032-H

K003-H | X065

K005-F

K005-F

K005-F

K005-F

K005-F

K005-F | K006-H

K006-F

K006-F

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K006-F

K006-H | K023-H

K006-H | K028-H | K034-H | K041-H

K008-F

K008-F

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K009-F

K010-F

K011-F

K012-H

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Keywords

neurons | glutamate-cysteine ligase | glutathione | in vivo knockdown | dendrite disruption | memory imp
humpback whale | blubber | cortisol | stress | validation | fecal glucocorticoids | enzyme-immunoassay | ma
estrogen | non-invasive | pregnancy | progesterone | xenarthra
namibian cheetah | demography | induction | semen | cat | age
androgen | camelids | estrogen | noninvasive | pregnancy | progesterone | adrenocortical activity | pregnan
1 alpha-hydroxycorticosterone | stress | glucocorticoid | mineralocorticoid | hplc | stingray | corticosterone
asian elephant | cortisol | hormone degradation | progestagens | testosterone | progesterone concentrati
seasonality | photoperiod | hormone | anestrus | endangered species | antelope | genetic resource banks |
cheetah | hormone | pregnancy | glucocorticoid | progestagen | estrogen | artificial insemination | domestic

enzyme immunoassay | estrus | gestation | luteal | reproduction | anteater tamandua | ovarian cycle | rhino
avian | corticosterone | faecal glucocorticoid metabolites | glucocorticoids | kea | parrot | stress | stress | hor
visitor effect | zoo animal welfare | wildlife endocrinology | animal behavior | stress | visitors | vigilance | m
koala | spermatozoa | pathology | chlamydia | reproductive tract | male fertility | age-related-changes | oxid
assisted reproduction | conservation | fish reproduction | seasonal reproduction | semen | sperm | testoste
ammonia | behaviour | feed intake | live export | physiology | sheep | cognitive bias | atmospheric ammonia
humpback whale | blubber | hormone | reproductive behaviour | dolphin tursiops-truncatus | progesteron
salivary cortisol secretion | ranging african elephants | adrenocortical activity | comparative endocrinolo
glucocorticoids | androgens | sexual maturity | population management | pituitary-gonadal relations | cat
boolean logic | digital biosensor | disease endotyping | electrochemical impedance spectroscopy | randor
| *Biosensing Techniques/methods

non-faradaic immunosensing | prostaglandin e2 | electrochemical impedance spectroscopy | urinary trac
Spermatozoa | Testosterone | Electroejaculation | Urethral catheterization | Semen freezing
alternatives | antibiotic supplementation | grower pigs | medium chain fatty acids | nursery pigs | oil | conj
animal welfare | human-animal interactions | infrared thermography | cortisol | oxytocin | positive reinfor

red river hog | urine | seasonal reproduction | estrous cycle | fecal progesterone metabolites | fecal testos
molecular | oral microbiology | porphyromonas | periodontal-disease | virulence factors | gene downstrea
Cell Line | Coculture Techniques | Comet Assay | *DNA Damage | Epithelial Cells/*drug effects/metabolisi

Animals | Dogs/blood/*physiology/urine | Eicosanoids/*urine | Female | Lactic Acid/*blood/metabolism |
cellular senescence | cells | involvement | transition | creatinine | phenotype | fibrosis | albumin | injury | dan
Alleles | Animals | *Brain/metabolism | *Genomic Imprinting | Heterozygote | Mice | adrenaline | decision r
metals | urine | kumasi | asthma | DNA damage | aromatic-hydrocarbons pahs | chronic arsenic exposure | c
Adult | CLOCK Proteins/*genetics | Cross-Sectional Studies | Estradiol/*blood | Female | Humans | Male | M
brassica | cattle | digestion | nitrogen retention | performance | enteric methane production | fatty-acid-co
Age Factors | Antigens, CD/urine | Antigens, Differentiation, Myelomonocytic/urine | Chemokine CCL2/u
recombinant-human-erythropoietin | beta-common-receptor | chronic kidney-disease | skeletal-muscle |
Animals | Carrier Proteins/agonists/antagonists & inhibitors/*metabolism | Diabetes Mellitus, Type 2/cc
24-hour recall | assessment | behavior | biomarkers | diet | dietary assessment | food | human intestinal mi
mitochondria | mtdna | ptra | renovascular hypertension | revascularization | cell-cycle arrest | glomerular-
acute kidney injury | biomarkers | hypertension | mitochondria | oxygen | blood-flow | tissue hypoxia | dysfi
african american | blood pressure | hyperfiltration | hypertension | mitochondria | obesity | chronic kidney
chronic kidney disease | subtotal nephrectomy | urotensin ii | induced collagen-synthesis | increased expr
Animals | *Diabetes Mellitus, Experimental/metabolism | *Diabetes Mellitus, Type 2/metabolism | *Dial
grape pomace | dietary fiber | antioxidant activity | phenolic-compounds | by-products | bioactivity | modu
hypothalamus | kidney | natriuretic peptides | polyuria | suprachiasmatic nucleus | vasopressin
tandem mass-spectrometry | irritable-bowel-syndrome | gut microbiota | arabinoxylan-oligosaccharides
Chemical Precipitation | Female | Humans | Male | Pelvic Pain | Proteins/*chemistry | *Proteinuria | Referer

biological markers | chemokines | lupus nephritis | systemic lupus erythematosus (sle) | t-lymphocytes | u
biomarkers | blood urea nitrogen | microbiota | oral health | periodontal disease | chronic kidney-disease |
alkalosis | calcium | phosphate | 1,25(oh)(2)d-3 | aldosterone | antidiuretic hormone | metabolic-acidosis | t
Cross-Sectional Studies | *DNA Methylation | DNA Repair Enzymes | Female | Glycine/analogs & derivativ
Nitrogen retention | Nitrogen utilization efficiency | Purine derivatives | Ruminal fermentation | Volatile f
Animal Feed | Animal Nutritional Physiological Phenomena/*physiology | Animals | Cattle/metabolism/*
3-Hydroxybutyric Acid/blood | Animals | Blood Glucose | Calcium/metabolism | Cattle | Fatty Acids, Nones
Alkaptonuria/metabolism/*therapy | Animals | Butyrates/administration & dosage | Enzyme Inhibitors/*
atrial fibrillation | thromboxane | warfarin | anti xa non -vitamin k oral anticoagulant | platelet inhibitor | g
hypoxic-ischemic encephalopathy | quality-control samples | batch effect correction | mass-spectrometr
Aged | Aging | Humans | *Insulin Resistance | Polysomnography | Prospective Studies | *Sleep Apnea, Obst
farnesyl transferase inhibitor | vascular calcification | farnesyltransferase inhibitor | arterial calcification |

Adult | *Amino Acids, Branched-Chain | Fatty Acids, Volatile/analysis/chemistry/metabolism | Feces/che
ammonia | tannins | diet

Administration, Oral | Animals | Atrazine/*toxicity | Chromatography, Liquid/*methods | Corticosterone/|
8-Hydroxy-2'-Deoxyguanosine | Adult | Biomarkers/urine | Chromatography, High Pressure Liquid/stand
Animals | Neopterin | *Theropithecus | *Taenia | Gastrointestinal Tract | *Gastrointestinal Microbiome | *t
biomarkers | oxidative stress | preterm infants | lipid-peroxidation biomarkers | oxygen | resuscitation | pre
Anxiety | Gut microbiota | Short chain fatty acids | Single prolonged stress | Stress resilience | Urinary cate
calcium | dairy cow | dietary cation-anion difference | parathyroid hormone | vitamin-d | calcium-absorpti
calcitriol | dairy cow | hypocalcemia | vitamin d | vitamin-d | milk fever | subclinical hypocalcemia | parturie
bisphenols | environmental exposure | gene expression | obesity | heterogeneous stock rats | adiposity | u
Adult | Biomarkers/urine | Case-Control Studies | Extracellular Matrix Proteins/*urine | Female | Humans |
podocyte glycoproteins | kidney inflammatory response | pregnancy | tubular injury | preeclampsia | mole
gas chromatography-mass spectrometry | metabolomics | statistics | urease | urine
comprehensive two-dimensional gas chromatography | gc x gc | quadrupole ms | spectral quality | untarg
diabetes | metals | metalloids | endocrine disruptors | chemical mixtures | glucose | insulin | homeostasis m
Animals | Mice | Mice, Inbred MRL lpr | *Lupus Erythematosus, Systemic/drug therapy/metabolism | *Lu
Acute hypoglycemia | Epinephrine | Fecal whole genome sequencing | Microbiome | Oral antibiotics | Sho
kidney | androgens | embryonic and fetal development | female | male | reduces nephron number | blood-

reactive oxygen species | kidney | inflammation | acute kidney injury | oxidized phospholipids | free radica
fisher | nonconsumptive effects | risk avoidance | wisconsin | erethizon-dorsatum | large carnivores | risk-t
deoxycorticosterone acetate-salt | renal nerves | sympathetic nervous system | treatment-resistant hype
Acute Kidney Injury/chemically induced/metabolism/*pathology | Animals | Antioxidants/metabolism | |
alzhemiers-disease | progenitor-cell | activation | elimination | disorder | stress | mice

creatinine | gnhrh | hcg | non-invasive hormones | phonotaxis | testosterone
bitches | canine | cortisol | gonadectomy | neuter | progesterone | serotonin | spay | testosterone | urinary hc
cystinosis | swan-neck lesion | oxidative injury | proximal tubule | mitoquinone | unilateral ureteral obstru
nephrogenic diabetes insipidus | fibrosis | chronic renal disease | aqp2 trafficking | apical membrane | binc
apoptosis | complement inhibitors | endothelial progenitor cells | extracellular vesicles | glomerulonephri
aging | inflammation | ischemia-reperfusion injury | regulatory t-cells | endothelial growth-factor | acute-r
tissue growth-factor | plasminogen-activator inhibitor-1 | rat mesangial cells | kidney-disease | expressior
Arsenic | Endocrine disruptor | Insulin resistance | Insulin sensitivity | Methylation | Type 2 diabetes
Sparus aurata | cortisol | energetic metabolism | fish | glucocorticoids | stress response
prenatal stress | maternal stress | fetal programming | hair cortisol | perceived stress | socioeconomic-stat
cushing | cortisol | acth | congenital cataract | pediatric cataract | topical steroids | exogenous cushing | ocu

beef cattle | immune-metabolic axis | immune supplementation | omnigen-af | periparturient dairy-cows

early-life stress | endocannabinoid | glucocorticoid | fear recall | hippocampus | memory retrieval | childhood
critical application design | distress and eustress | emergency | salivary cortisol | heart rate (variability) | p
sparidae | stress | aquaculture | stocking density | endocrine-related genes | energetic metabolism | mycot

Humans | Organoids | Tumor Microenvironment | *Thyroid Neoplasms/pathology | *Adrenal Gland Neoplasms
Stress | Cortisol | Periodontitis

*Chronic Periodontitis | Dental Plaque Index | Gingival Crevicular Fluid | Humans | Hydrocortisone | Interleukin-1
chronic periodontitis | cortisol | interleukin-1 beta | smoking | stress | cigarette-smoking | psychological stress
california sea lion | cortisol | stress | progesterone | blubber | percent lipid | northern elephant seals | adrenal
Cattle | Animals | Sheep | *Ascorbic Acid/pharmacology | Weaning | *Diet/veterinary | Vitamins | Body Weight
abstinence | amphetamine | cortisol | executive functions | stress | prefrontal cortex | attention test | stroop
Animals | CCN Intercellular Signaling Proteins/genetics/*physiology | Cell Proliferation/*drug effects | De
t-cells | cortisol | apoptosis | children | stress | mice | lymphocytes | sensitivity | sepsis

coral-reef fish | swimming performance | respiratory metabolism | aerobic capacity | labriform fish | morpheus
brief mindfulness meditation | psychological stress | controlled-trial | blood-pressure | responses | intervertebral
ulcerative colitis | basic sciences | intestinal epithelium | molecular biology | signaling | activated-receptor
health | respiratory disease | zinc

heat | stress | cattle | yeast | probiotic | saccharomyces-cerevisiae | crossbred heifers | culture | responses | calf
bovine | developmental programming | neonate

acute phase response | cattle | cytokines | marbling | quantitative trait loci | acute-phase response | hemoglobin
Acute-Phase Reaction/*immunology/veterinary | Animals | Cattle | Cells, Cultured | Cytokines/genetics/*
Acute-Phase Reaction/*immunology/prevention & control | Administration, Intravenous | Animals | Bovine
bovine | inflammation | castration | behavior | interferon-gamma production | acute-phase response | plas
Adrenocorticotrophic Hormone/blood | Adult | *Anesthesia, Epidural | *Anesthesia, General | *Anesthesia
physical exercise | high altitude | immune function | lymphocytes | inflammation | hypoxia-inducible factor
innate response | monocytes | carbohydrate | glutamine | physical exercise high altitude | expression | altitude
acute phase response | cattle | immune | lipopolysaccharide | metabolism | prenatal stress

risk-factors | activity questionnaire | spanish adolescents | screening tool | blood-pressure | 3 generations
calf health | inflammation | stress

stress | marine mammal | bottlenose dolphin | tursiops truncatus | hpa axis | conservation | seals phoca-vitiensis
adrenocorticotrophic hormone acth | steller sea lions | beluga whales | thyroid-hormone | phoca-vitulina |
biochemistry | issue 150 | chronic stress | koala | glucocorticoids | fur | methanol | ethanol | isopropanol | ph
Animals | *Aquaculture | Cold Temperature | Crowding | Immunity, Humoral | Stress, Physiological/*immu
stress | cortisol concentration | lag time | golden snub-nosed monkeys | glucocorticoid assay | physiological
experimental therapy | adrenocortical carcinoma | mitochondrial oxidative phosphorylation | reactive oxygen
calf growth performance | meloxicam | protein metabolism | transportation | amino-acids | cattle | respon
equine | nuisance insects | shelter seeking behaviour | stress | tabanids | welfare | social-behavior | fly hara
food science | nutrition | toxicology | endocrinology | tamarind | seed extract | endocrine function | high fat
aotus | biparental care | cortisol | owl monkey | pair-living | owl monkeys aotus | cotton-top tamarins | info
stocking density | environmental enrichment | fecal cortisol | behavior | welfare | pig | finishing pigs | growi
C-reactive protein | CRP, C-reactive protein | Cvd | Cytokines | Insulin | MFGM, milk fat globule membrane

Animals | Animals, Zoo/physiology | *Chiroptera/physiology | Feces | Female | Glucocorticoids | Hydrocortisone
dairy cows | hair cortisol | hock health | reproductive performance | risk-factors | behavior | lesions | stress |
hair cortisol | nutrition | postpartum | reproductive performance | dairy-cattle | milk-production | energy-b
adrenocorticotrophic hormone | goat | hair cortisol | stress | lactating dairy-cows | plasma-concentrations |
salmon salmo-salar | trout oncorhynchus-mykiss | meager argyrosomus-regius | atlantic salmon | soybean
Animals | Ascomycota/*physiology | Body Composition | Chiroptera/metabolism/*microbiology | Female

bipolar disorder|cortisol|fkbp51|glucocorticoid receptor|hpa axis|high familial risk|staging model|gl
alfalfa|browse|feeding|glucocorticoids|regurgitation and reingestion|zoo|north-american zoos|bisci
stress hormones|hypothalamic–|pituitary–|adrenal axis|conflict|provisioning|resource
chronic stress|hair cortisol|urban|rural|hpa-axis|dominican republic|socioeconomic-status|daily sali
aceh cattle|non-invasive|validation|sample collection time|elisa|diurnal variation|corticosterone me
aversiveness|husbandry|human-animal relationship|hrv|salivary cortisol|konik polski horse|heart-ra
Animal Feed/analysis|Animal Husbandry/*methods|Animals|Blood Glucose/metabolism|Body Weigt
adiposity|adolescents|down syndrome|inflammatory biomarkers|prepubertal children|body-fat|obe
Animals|Aorta, Thoracic/pathology|Biomarkers/metabolism|Blood Pressure/drug effects|Cystathioni
Humans|Female|Male|*Fibromyalgia/therapy/diagnosis|*Fatigue Syndrome, Chronic/therapy/diagn
alternating environmental acidification|sublethal effects|allostatic load|freshwater fish|waterpower
sickle cell disease|sickle cell anemia|corticosteroids|steroids|cushings-syndrome|axis activity|insuffi
colostrum feeding|neuroendocrine|mucosa-associated microbiota|neonatal calf|real-time|growth-p
adrenal gland|cortisol|fatigue|hypothalamic-pituitary-adrenal axis|radiotherapy|cancer-related fatig
antibody|beef calves|physiological stress|vaccination|phase protein response|viral diarrhea virus|de

eicosanoids|stress response|n-6/n-3 ratio|salmo salar|2-series
rainbow trout|yeast|aquaculture|dorsal aorta cannulation|buffering capacity|anaemia|salmon salm
blood biochemistry|gene expression|heat stress|histology|qpcr|salmonids|saccharomyces cerevisia
stress|psychobiology|ptsd symptoms|mental health|displacement|posttraumatic-stress-disorder|m
horse|conflict behavior|equitation|show jumping|salivary cortisol concentration|welfare|heart-rate-
pagrus major|blood|biochemical marker|temperature|cluster|tracing|sea bream|rainbow-trout|ter
seriola dumerili|greater amberjack|induced spawning|gnrha implants|broodstock|f1 fish|hatchery n
aqui-s (r)|etomidate|induction times|liver metabolism|stress responses|salmo-salar l.|rhamdia-quel
human|adrenal|fetus|steroid|maternal smoking|steroidogenic factor-i|side-chain cleavage|21-hydr
ashwagandha|canine|cbarq|cortisol|stress|separation anxiety|double-blind|behavioral-assessment|
fecal glucocorticoids|tursiops-truncatus|thyroid-hormones|seasonal-changes|biopsy system|blood-c

leukocyte coping capacity|gastric-mucosal injury|psychological stress|risk-factors|insulin|infection|ir
Animals|Epilepsy/etiology/metabolism/*pathology|Female|Integrases/metabolism|Male|Mice|Mici
Animals|Animals, Wild|Cercopithecus|Humans|*Hydrocortisone|*Predatory Behavior|Cercopithec
Animals|*Colitis, Ulcerative/drug therapy/metabolism|Glucocorticoids/metabolism/pharmacology|H

chronic pain|biomarker|biopsychosocial|rehabilitation|musculoskeletal|trauma
posttraumatic stress disorder|cognitive behavioral therapy|glucocorticoids|mtbi|hydrocortisone|pos
food security|hair cortisol|stress|low-income|head start|perceived stress scale|insecurity|associati
obesity|stress|hair cortisol|low-income|preschooler|mother|body-mass index|childhood obesity|p
hair cortisol|perceived stress|coping|young child|low-income|socioeconomic-status|maternal stress
concentrated ambient particles|emergency-room visits|air-pollution|biological constituents|lipid-per
air pollution|particulate matter|endotoxin|beta-1,3-d-glucan|neural biomarker|randomized controll
camp|prostaglandin e2|celecoxib|primary pigmented nodular adrenocortical disease (ppnad)|adrenz

Resilience|Social support|Stress|Stress recovery

stress|cortisol|monocytes/macrophages|head kidney|trunk kidney|carp|induced leucine-zipper|niti
steroid|cortisol|hpa axis|stress|canine|keratin|hair cortisol|stress responses|saliva cortisol|plasma-

bovine respiratory disease|bovine respiratory syncytial virus|innate immunity|saccharomyces cerevis

salivary cortisol|stress|immunoassay|adaptation|antibodies|electrode|template|film
adrenocortical cancer|aurora kinases|beta-catenin|epithelial-mesenchymal transition|gene-expressi
heat stress|immune stimulator|hormonal responses|inflammatory responses|blood mononuclear-ce
aldosterone-producing adenoma|bone-mineral density|intermediate mesoderm|mesenchymal cells|
bottlenose dolphin|cortisol|dolphin interactive program|salivary cortisol|circadian-rhythm|tursiops-t
anandamide|cannabinoid|fatty acid amide hydrolase|fear conditioning|ptsd|stress|antidepressant-li
Animal Husbandry/*methods|*Animal Welfare|Animals|Behavior, Animal|Biomarkers/analysis|Body
acute-phase proteins|bovine respiratory-disease|long-distance transport|feed withdrawal|calves|be
Animals|Cattle|*Creatine Kinase|Fatty Acids, Nonesterified|Haptoglobins|Lactic Acid|*Rest
plasma-cortisol|animal-welfare|metabolites|stress|indicators|feces|tool
Administration, Cutaneous|Animals|Anti-Inflammatory Agents, Non-Steroidal|Clonixin/analogs & der
nature|green|color|stress|diet
Adaptation, Psychological|Animals|*Hydrocortisone|Male|Stress, Physiological|Water|*Zebrafish/pl
Aquafeeds|Electrophysiology|Enzymatic pre-treatment|Gilthead seabream|Microalgae|Welfare
aquafeeds|electrophysiology|enzymatic pre-treatment|gilthead seabream|microalgae|welfare|fatty
alternative oil sources|fatty acid composition|fish oil substitution|greater amberjack|linseed oil|palm

bland-altman|cortisol|faeces|glucocorticoids|joey|koala|stress|stress

cortisol|ethogram|no rewards|orangutan|scheduled|visual enrichment|social-behavior|animals
fatty-acid-composition|trout oncorhynchus-mykiss|bass dicentrarchus-labrax|salmon salmo-salar|fish
carp lines|stress response|leukocyte activity|pathogen susceptibility|cortisol|catfish ictalurus-puncta
calf|serum protein|acute phase response|dried animal plasma|milk replacer|holstein calves|colostru
multivariate analysis|illegal treatments|serum biomarkers|growth promoters|veal calves|class-mode
Animal Welfare|Animals|Animals, Zoo/physiology|*Lemur/physiology|Surveys and Questionnaires
cortisol|infrared thermography|ocular temperature|body-temperature|infrared thermography|heat
Animals|Bacterial Load|Disease Resistance/*immunology|Fish Diseases/immunology/microbiology|f
Accelerometry|Adult|Anxiety/blood/microbiology/therapy|Athletes/psychology|Bifidobacterium ani
calf|calf starter|fatty acid|digestion|subacute ruminal acidosis|acute-phase proteins|innate immune
owi|relative weight|salmon farming|cleaner fish|welfare indicators|juvenile atlantic salmon|sea lice
conception rate|cortisol|implantation|repeat breeder cow|artificial-insemination|embryonic mortali
inflammation|analgesia|welfare|anesthesia|cortisol responses|plasma-cortisol|behavior|anesthesia
dog|shelter|health|immune system|beta-endorphin|fecal cortisol|lysozyme|stress-induced analgesi
blood|cytokines|exercise|exhaustion|lymphocytes|macrophages|nk cells|phagocytosis|spleen|thyr
Rats|Animals|Flavonoids/pharmacology|*Hesperidin/pharmacology|Rats, Inbred Lew|*Cacao|Diet|
Ros|acute exercise|fiber|flavanols|immunoglobulin|leukocytes|lymphocytes|oxidative stress|polypl
lasting synaptic enhancement|cultured hippocampal slices|long-term potentiation|organotypic cultu
acute phase response|cattle|cytokines|lipopolysaccharide|saccharomyces cerevisiae fermentation p
cattle|glucose|insulin|insulin sensitivity|nonesterified fatty acids|temperament|fatty-acids|northern
Female|Cattle|Animals|*Hydrocortisone|*Laparotomy/veterinary|Pain/veterinary|Xylazine|Lidocair

emotion regulation|cognitive reappraisal|cortisol|emotional reactivity|depressive symptoms|anxiety
adolescence|depression|cortisol|heart rate|recovery|cognitive vulnerability|acute psychological stre

child|cortisol|diffusion-weighted imaging|neurodevelopment|socioeconomic status|stress|early-life
atlantic salmon|nutrition|parr smolt transformation|seawater transfer|robustness|cod gadus-morhu
Cattle|Animals|*Acute-Phase Reaction/veterinary|Lipopolysaccharides/pharmacology|Cytokines/me
bovine|follicle stimulating hormone|folotropin|heat-stress|supplementation|fsh|ovulation|cattle

fecal glucocorticoid metabolites | cebus-apella | salivary cortisol | stress | choking | responses | recognition

hair cortisol | kangaroo | lumpy jaw disease | objectively assessment | stress | excretion | biomarker | horm
stress | solliquin | nutraceuticals | shelter | fecal | cortisol | plasma-cortisol | physical-activity | human contac

cortisol-levels | role strain | hair cortisol | mental-health | social roles | role quality | womens work | satisfac
carp | leukocytes | stress | 17 beta-estradiol | estrogen receptors | aromatase | trout oncorhynchus-mykiss

animal welfare | cortisol | dairy cattle | eia | hair | of-the-art | glucocorticoid metabolites | drug incorporatic
cushing syndrome | cortisol | adrenocortical hyperplasia | toddler | aldosterone | nodular adrenocortical d

environment | fi sh | machine learning | microbiota | stress | stress | responses | communities | walleyes | cor
zno nanorods | zno nanoflakes | sonochemistry | immunosensor | cortisol sensing | zno nanorods | biosens
men's health | health disparities | stress | chronic disease | culturally responsive strategies | narrative eng
acth | metabolism | sheep | stress | zinc | manganese | stress | digestion | cattle | acth | absorption | immune | c
psychosocial stress | emotional eating | overweight | obesity | stress responsiveness | stress reactivity | cor
Female | Adolescent | Humans | Infant | Pregnancy | *Mothers/psychology | DNA Methylation | Hydrocortisol
Child | Fear | Female | Hair/chemistry | Humans | *Hydrocortisone | Infant | Male | *Saliva/chemistry | Stress
Animals | Female | Food | *Glucocorticoids | *Hibernation | Humans | Male | Sciuridae/physiology | Seasons
Animals | *Cebus capucinus | Laboratories | Cebus | Feces | Testosterone | Costa Rica | Androgens | Cortisol |
undesirable behavior | glucocorticoid | trichotillomania | environmental-factors | adrenal activity | sex-diff
baleen | calves | corticosterone | cortisol | stress | validations | eubalaena-australis | peninsula valdes | fecal
fecal cortisol-levels | stress-response | physiological stress | hair | conservation | patterns | rodentia | gener
beef cattle | housing | welfare | immunology | physiology | dairy-cows | gene-expression | veal calves | welfa
aggression | vigilance | stress | cortisol | testosterone | social dominance | fecal cortisol metabolites | sheep
Adenosine Triphosphate/metabolism | Animals | Cardiomyopathy, Hypertrophic, Familial/genetics/* me
aldosterone | corticosterone | cortisol | hair | stress | testosterone

marine mammals | cetacea | baleen hormones | cortisol | corticosterone | stress | fecal glucocorticoids | bal
cortisol | cortisone | exertion | stress | citrus flavonoids | cortisol-cortisone shuttle | blood-pressure | in-vivc
cattle | cortisol | lipopolysaccharide | metabolism | prenatal stress | prenatal stress | immune activation | m
bearded seals | claws | cortisol | pregnancy | ringed seals | stable isotopes
Cortisol | keratin | phocid | pinniped | progesterone | steroid hormone
steller sea lions | fur seals | circulating progesterone | phoca-vitulina | pregnancy | cortisol | dynamics | estr

guinea pig | neonatal stress | pregnancy | cortisol | myelination | gaba | sex-differences | preterm birth | feta
canine behaviour | frustration | psychometrics | veterinary behaviour | behavioural assessment | heart-rat

Cortisol | endocrine | fish

Disulfide Bond | Bovine Spongiform Encephalopathy | Amyloid Aggregate | Heteronuclear Single Quantu
Animals | CD4-Positive T-Lymphocytes/cytology/*drug effects | Cell Differentiation | Cell Proliferation | *E
enhanced raman-spectroscopy | warfare agent vx | soft-lithography | surface | silver | scattering | molecule
Antineoplastic Agents/*pharmacology | Cisplatin/*pharmacology | Cross-Linking Reagents/*pharmacol
capillary lc-ms | mammalian-cells | amine metabolomics | spectrometry | proteomics
Ilt | ledt | muscle performance | muscle recovery | atp | biphasic dose-response | level laser therapy | skele
aerobic metabolism | atrophy | cancer cachexia | fiber type | muscle wasting | skeletal-muscle | heart-failur
chemotherapy | liver cancer | apoptosis | angiogenesis | cell cycle | melatonin | hepatocellular-carcinoma |
antioxidant | inflammation | zinc | arginine | piglet | weanling | dietary supplementation | growth-performa
toxicity | white-footed mice | superfund site | biomarker | alad | delta-aminolevulinic-acid | oxidative stress
tree swallows | biomarker | chromosomal damage | erod | oxidative stress | blue heron eggs | polycyclic ar
rabbit ventricular myocytes | cardiac sarcoplasmic-reticulum | calcium-release channel | ryanodine recep

ca²⁺ homeostasis|ventricular myocytes|heart failure|sarcoplasmic reticulum|ryanodine receptor|ox
Air Pollutants, Occupational/*metabolism|Antioxidants/*metabolism|Benzhydryl Compounds/*meta
no and h₂s cross talk|nitroxyl|nitrosopersulfide|redox sensing|polysulfide|persulfide|nitric-oxide syr
electron-transport-system|oxidative stress|california current|crassostrea-virginica|vertical-distributic
oxidative stress|reproduction|female condition|metal pollution|calcium availability|pied flycatcher|l
messenger-rna expression|bile-acid concentrations|thyroid-hormone levels|falco-sparverius|liquid cl
melioidosis|glutathione|n-acetyl cysteine|bacterial infection|type 2 diabetes|burkholderia pseudom
Catalase/genetics/metabolism|Cell Proliferation|Down Syndrome/genetics/*metabolism/pathology|
Amino Acid Substitution|Catalytic Domain|Cell Line|Dithiothreitol/pharmacology|Glutathione/metab
Acetylcysteine/*pharmacology|Aged|Antioxidants/pharmacology|Cross-Over Studies|Double-Blind R
collared flycatcher|maternal effects|maternal hormones|nestling growth|oxidative stress|thyroid ho
aging|oxidative stress|antioxidant|telomeropathies|DNA damage|dyskeratosis-congenita|DNA-dam
Animals|Cattle|Glutathione/*analogs & derivatives/chemistry/metabolism|Glutathione Disulfide/me
AAALAC, Association for Assessment and Accreditation of Laboratory Animal Care|AFRRI, Armed Forc
Animals|C-Reactive Protein/analysis|Cytokines/*blood|Health Status|Limit of Detection|Male|Meta
methionine sulfoxide|selenoenzyme msrb1|acetaminophen|hepatic damage|oxidative stress|methic
alzheimer's disease|appetite|butyrylcholine esterase|ghrelin|rivastigmine|weight-loss|phenotype|fi
inflammatory-bowel-disease|thiopurine methyltransferase activity|receiving azathioprine|glutathion
Aging/*physiology|Animals|Catalase/physiology|Disease Progression|Hippocampus/enzymology|M
household plastic|leachate|oxidative stress|tyre wear particles|zooplankton|induced oxidative stres
*Adaptation, Physiological|Altitude|Exercise|Humans|Hypoxia/metabolism/*physiopathology|Nitrog
l-carnitine treatment|DNA-polymerase-gamma|oxidative-stress|n-acetylcysteine|superoxide flashes|
conservation|early indicator|iridescence|metal pollution|ornamental coloration|oxidative stress|tre
critically-ill patients|improves survival|cecal ligation|mortality|prevention|outcomes|injury|motor|r
adipocytes|metabolism|adipose|oxidative stress|glucotoxicity|protein modification|er stress|endop
cardiac failure|skeletal muscle|myopathy|oxidative stress|intracellular signaling|myocardial infarctio
antioxidants|stressor|cycling|glutathione|dual stress|responses|challenge|indexes
chagas heart disease|heart failure|exercise training|cardiac rehabilitation|cardiopulmonary exercise
Animals|Citrate (si)-Synthase/metabolism|Disease Models, Animal|Exercise Therapy/*methods|Exer
oxidative stress|biomarkers|nom|metal oxide nanoparticles|daphnia magna|metal-oxide nanopartic
myocardial infarction|hyperbaric oxygenation|redox control|mortality|oxidative stress|reactive oxyg

antioxidant defence|glyphosate|insects|organophosphate|origin|pesticide|roundup|history trade-o
antioxidant defense|herbivores|insects|potato defense chemicals|roundup|alpha-solanine|lipid-per
tyrosine phosphatase|step|dimerization|aging|glutathione|n-acetyl cysteine|activated protein-kinas
Animals|Apoptosis/*drug effects|Cells, Cultured|Glutathione/pharmacology|Green Fluorescent Prot
cost of reproduction|antioxidants|avian physiology|flycatcher|oxidative stress|predator|oxidative sti
werner syndrome|atypical werner syndrome|oxidative stress|antioxidant enzymes|thioredoxin|gluta
intermittent hypoxia|high-altitude|adipose-tissue|operation-everest|human adaptation|c-peptide|r
methionine sulfoxide|msra|acetaminophen|liver damage|glutathione depletion|oxidative stress|ind
methionine sulfoxide|msra|inflammation|immune response|nuclear factor kappa b|oxidative stress|
methionine sulfoxide|msra|acetaminophen|hepatotoxicity|thioredoxin reductase|n-acetylcysteine|i
skeletal-muscle|artificial selection|exercise capacity|running capacity|stress|mechanisms|proteome
growth stress|heavy metal|oxidative stress|pollution|telomere length|within-brood competition|fly
cost of reproduction|oxidative shielding|dehydration|oxidative damage|antioxidant|water deprivatic
clopidogrel|cytochromes|diabetes mellitus|obesity|thrombosis|diabetes-mellitus|active metabolite
glucose metabolism|glutaredoxin|human islet|insulin secretion|mito-catalase|mitochondrial metab
total antioxidant capacity|n-acetyl-cysteine|DNA-damage|glutathione precursor|reactive oxygen|doi
Animals|Caspases/metabolism|Cell Survival/drug effects|Dopamine Agonists/*pharmacology|Dopan
kindlin1|oxidative stress|mitochondria|keratinocytes|genodermatosis|human skin|lipid-peroxidatio

lenticular opacity|cataract|cholesterol|liquid chromatography-tandem mass spectrometry analysis|le el nino|coastal ecosystem|pelagic mollusks|oxidative stress|ocean acidification|interaction effects|a gold nanoparticles|malondialdehyde|antioxidant enzymes|superoxide dismutase|glutathione peroxidase m. tb|bcg vaccination|immune exhaustion|glutathione|cytokines|granulomas|cd8 t-cells|mycobacterium 11B-hydroxysteroid|Arsenate|DNA methylation|S-adenosylmethionine|dehydrogenase-1|glucocorticoid|Adolescent|Adult|Cell Line|Chemotaxis, Leukocyte|Cystic Fibrosis/enzymology/microbiology/pathology|organic selenium|vitamin e|drip loss|tears|myofibrillar proteins|free-amino acids|vitamin-e supplement|grape polyphenols|catechins|tannase|carbohydrase|antioxidant|minerals|digestibility|chickens|red wine|antioxidants|copd|smoking|obstructive pulmonary-disease|microsomal epoxide hydrolase|gamma-glutamyl ultrafine particles|iron|sulfur|glutathione|ventriculomegaly|corpus callosum|nucleus accumbens|antioxidant metabolism|oxidative stress|antioxidant system|salivary glands|diabetes|oxidative stress|sodium thiosulfate|Animals|Anticarcinogenic Agents/pharmacology|Antioxidant Response Elements/*physiology|Cells, Culture|carbon-tetrachloride|milk thistle|nitric-oxide|lipid-peroxidation|oxidative stress|oral absorption|superoxide|glutathione|glutathione disulfide|oxidative stress|protocols|chromatography-mass spectrometry|oxidative

wilson disease protein|biochemical-characterization|menkes|transporter|glutathione|expression|atleuciscus cephalus|heavy metals bioaccumulation|liver and kidney|histopathology|oxidative stress|fresh nuclear antigen pcna|oxidative stress|heavy-metals|copper uptake|fish|liver|glutathione|tissues|wilmson m. tb|mycobacterium tuberculosis|cytokines|glutathione|granuloma|glutathione|cells|mechanisms|Animals|Cytoprotection|Erythrocytes/metabolism|Hypoxia/blood/*metabolism|Nitric Oxide/blood|acute hyperglycemia|reactive oxygen species|pkc beta ii|insulin resistance|non-oxidative glucose pathway|advanced glycation endproducts|induced diabetic-rat|polymorphonuclear leukocytes|sulfonylurea growth|beta

diet|intermittent fasting|inflammation|oxidative stress|antioxidants|weight loss|reduced meal frequency|Analysis of Variance|Biomarkers/metabolism|Cell Extracts|Cell Proliferation/drug effects|Cells, Culture|Biosynthetic Pathways/genetics|Cytokines/metabolism|Gene Expression Profiling|Glutathione/*metabolism|celecoxib|misoprostol|nsaids|glutathione|malondialdehyde|histopathology|nonsteroidal antiinflammatory|calcineurin|enteric glial cell|small intestine|gastrointestinal motility|maldigestion|malabsorption|enteric|Alcohol consumption|GSTM-1 polymorphism|HIV disease progression|HIV/HCV co-infection|Oxidative stress|4-hne|Gpx4|Nrf2|epilepsy|ferroptosis

magnetite nanoparticles|mrc-5 cells|oxidative stress|hsp60|pge2|caspase-1|iron-oxide nanoparticle|Nsaids|diabetes|elderly|hyperglycemia|inflammation|insulin resistance|tuberculosis|oleuropein|oxidative status|free fatty acids|plasma amino acids|cortisol|pigs|fasting|slaughter|vitamin

Glutathione|Hiv|Opportunistic infections|Oxidative stress

acyl-coa synthetase|fuel switching|glutathione|mtor|oxidative stress|mitochondrial myopathy|mouset|Antioxidants/metabolism|Cell Survival|Cells, Cultured|Cytokines/metabolism|Enzyme Activation/drug|*Air Pollutants/analysis/toxicity|*Air Pollution|Animals|Brain|Female|Humans|Iron/pharmacology|Interleukin|lachrymatory factor synthase|cloning vector pbbr1mcs|garlic allium-sativum|pantoea-ananatis|centes|Adult|Aged|Animals|*Burkholderia pseudomallei|Diabetes Complications/*metabolism/microbiology

hiv|aids|redox homeostasis|cytokines|glutathione|human-immunodeficiency-virus|antiretroviral therapy|mercury|intestinal epithelium|caco-2 cells|oxidative stress|permeability|intercellular junctions|tight junctions|sio2 nanoparticles|heat shock proteins|oxidative stress|apoptosis|autophagy|mrc-5 cell line|heat-shock

hif-1|hif-1-alpha|metabolism|apoptosis|responses|death

tartary buckwheat extract (tbe)|alcoholic liver injuries|oxidative stress|mitochondrial cell death|cytochrome p70 s6 kinase|oxidative stress|mtor|phosphorylation|cells|metabolism|activation|initiation|autophagy|leukotriene|hoci|inflammation|glutathione|hydrogen peroxide|phorbol-myristate acetate|hypochlorite

aging|fibroblast|keratinocyte|nitrogen|reactive oxygen species|ultraviolet radiation|human-skin fibr

Adult|Antioxidants/analysis|Ascorbic Acid/*administration & dosage/blood|DNA Damage|DNA Repa
in-vitro|oxidative stress|acute toxicity|metallic nanoparticles|intrinsic apoptosis|bio-distribution|cyt
brevetoxins|red tide|immune system|pond slider|freshwater turtle|fresh-water turtle|polychlorinat
Animals|Cold-Shock Response/*genetics|Female|Ion Channels/*genetics|Male|Mice|Mice, Inbred C

phongolo floodplain|cytochrome p450|oxidative stress|multi-biomarker|cellular-energy allocation|n
cystatin c|glomerular filtration rate|renal disease|sickle cell disease|jamaica|chronic kidney-disease|
neonate|intrauterine growth retardation|renal volume|renal cortex volume|urine|cystatin-c|low-bir
aerobic exercise|cardiometabolic diseases|estimated glomerular filtration rate|renal health and filtra

chronic kidney disease|nephropathy|pathophysiology|arginine vasopressin system|type 2 diabetes n
oxidative stress|age|metabolism|decline

Humans|*Biocompatible Materials|Materials Testing/methods|*Platelet Activation|Blood Coagulat
Acute Lung Injury/chemically induced/*drug therapy/physiopathology|Administration, Intranasal|Ani
Animals|Anti-Inflammatory Agents/administration & dosage/*therapeutic use|Bronchoalveolar Lavag
vaccinium macrocarpon|inflammation|oxidative stress|cardiovascular disease|blood glucose|plasma
carbon monoxide|ischemia-reperfusion|lung|laser spectroscopy|cavity-enhanced absorption|cavity-
myocardial infarction|i|r injury|langendorff|blood|erythrocytes|rbc|perfused isolated heart|platek
soft blood clot|ethanol|cadaveric blood|tissue factor|monocyte|hemoglobin|plasminogen-activator
ileus|inflammation|macrophage|peritonitis|zinc deficiency|micronutrient status|gene-expression|d
biliverdin|corticosterone|gluconeogenesis|glycerol|heme oxygenase|house sparrow|lipid metabolis

septic shock|endotoxin tolerance|ifn-gamma|in-vivo|receptor|interleukin-12|mice|dimerization|act
t-cells|positive selection|clonal deletion|negative selection|self-antigen|receptor|mice|differentiat
lymphoid organs|receptor|protein|mouse|corticosterone|binding|brain|stimulation|activation|thyr
house-dust mite|corticosteroid resistance|allergic inflammation|cystic-fibrosis|macrophages|lung|in
behavioral rhythms|gene-expression|renal-function|adrenal-gland|sodium-intake|clock|period|prot
t-cells|complementary-DNA|receptor|mechanisms|inhibition|pd-1|activation|immunosuppression|
growth-hormone-secretion|messenger-ribonucleic-acid|gene-expression|normal women|factor-i|pu
nlx-101|5-ht1a receptor|brain ischemia|neuroprotection|global cerebral-ischemia|transient forebrai
environmental endocrine disruptors|glucocorticoid biosynthesis|phthalate esters|protein-protein inti
Animals|Male|Chickens/physiology|Antioxidants/metabolism|*Seaweed/metabolism|*Drinking Wat
heat stress|broilers|vitamin c|betaine|chromium|propolis|turmeric|vitamin-c|growth-performance
Adaptation, Physiological/drug effects/*physiology|Age Factors|Alcohol Drinking/metabolism/psych
sex differences|predator odor|bobcat urine|alcohol|stress|trauma|startle|arousal|corticosterone|c
Animals|Biomarkers|*Brain Injuries, Traumatic/diagnosis/pathology|Corticosterone|Disease Models,
laying hen|corticosterone metabolite|fiber|genotype|daily variation|fecal glucocorticoid metabolite:
*Animal Welfare|Animals|Chickens/immunology/*physiology|Female|Housing, Animal|*Nesting Bel
pullets|welfare|performance|fencing|litter area|feather pecking|laying hens|corticosterone metabo
anhedonia|anxiety|depression|mood disorders|bullying|animal model|juvenile|depression|behavic
molt induction|salmonella enteritidis|corticosterone|egg quality|laying hens|nonfeed removal meth
sleep|stress|oscillation|eeg|polysomnography|homeostasis|rem sleep|deprivation method|melanir
hypothalamus|rem sleep hypersomnia|stress|wake pattern|c-fos|corticosterone|discharge|recovery
bead beater|broiler chicken|eia|feather corticosterone methodology|surgical scissors|cortisol conce
animal welfare|education program animal|handling|substrate|armadillo|glucocorticoids|wild 9-banc
electric foot shock|stress|behavior|stress adaptation|angiotensin|telmisartan|hypothalamic paraver
stress adaptation|electric foot shock|behavior|corticosterone|gsk-3 beta|nf-kb|nf-kappa-b|glycogen

Animals|Behavior, Animal/*drug effects|Brain/drug effects/metabolism|Corticosterone/blood|Disease|tumor-necrosis-factor|targeted disruption|signaling pathway|epithelial-cells|gene-expression|bowel nociceptive behavioral response|corticosterone|tumor necrosis factor-alpha|astrocytes|dentin sensitivity|undernutrition|muscle wasting|hindbrain|paraventricular nucleus|myostatin|responses|expression|cort-flexibility hypothesis|fat|glucocorticoid|hematocrit|stopover|white-crowned sparrow|adrenal axis|Animals|Corticosterone/*metabolism|Hypothalamo-Hypophyseal System/*physiology|Pituitary-Adrenal axis|knockout mice|adipose-tissue|mineralocorticoid receptor|adipocyte differentiation|metabolic syndrome|corticosterone|photoperiod|isoflavones|stress|estrogen-receptor-alpha|dependent gene-expression|macrophage migration inhibitory factor|depression|cytokines|dopamine|inflammation|necrosis-factor|Behaviour|distress|ethics & welfare|exploratory behaviour|handling techniques|laboratory animal welfare|aeromonas hydrophila|amphibian immunity|antibody-mediated immunity|corticosterone|stress response|b-cells|salmonella infection|rna-seq|center responses|dendritic cells|center hypoxia|expression|lps|corticotropin-releasing hormone|paraventricular nucleus|dendrite|spine|intrinsic plasticity|corticosterone|11 beta-hydroxysteroid dehydrogenase type 1|contextual fear memory|glucocorticoid|hippocampus|light at night|circadian|prenatal|postnatal|development|anxiety|maternal-care|circadian-rhythms|circadian clock|therapeutic implications|peripheral-tissues|genomic responses|gene-expression|immunity|corticotropin-releasing-factor|decreases macrophage activity|impairs performance|strains|axis|feed|diet-induced obesity|cushings-syndrome|molecular-mechanisms|glucose-homeostasis|cre recombinase|social defeat stress|cocaine self-administration|bDNF|impulsivity|behavior|individual differences|cor

high-fat-diet|induced obesity|DNA methylation|adult diseases|promoter|weight|model|gene|rat|endocrine|consolidation|discrimination|emotional memory|generalization|glucocorticoids|reactivation|corticosterone|brain|cachexia|hypothalamus|microglia|neuroinflammation|pancreatic cancer|nitric-oxide|activation|carry-over effects|catch-up growth|climate change|false spring|glucocorticoids|metamorphosis|oxidative|polypeptide-expressing metaplasia|helicobacter-pylori|chemokine receptor|pharmacological inhibition

fear conditioning|prenatal alcohol|sex difference|glucocorticoid|mineralocorticoid|erk2|hippocampus|avian necrotic enteritis|clostridium perfringens|heat stress|eimeria spp.|neuroimmunomodulation|amyloid precursor protein secretases/metabolism|Animals|Aspartic Acid Endopeptidases/metabolism|corticosterone|flight|exercise|antioxidants|anthocyanin|hpa axis|affinity glucocorticoid-receptor|inactivity|torpor|body temperature|corticosterone|predation|stress|2,3,5-trimethyl-3-thiazoline|stress-induced|h3 receptor antagonist|procognitive compounds|stress|elevated plus-maze|prefrontal cortex|object|binge-drinking|negative affect|anxiety|sex differences|adolescence|withdrawal|binge-drinking|adolescent|antioxidant response|corticosteroids|liver|nrf2|oxidative stress|11-beta-hydroxysteroid dehydrogenase|Chronic phase advance|Circadian|HPA axis|Hippocampus|Mood|Neuroinflammation|growth|niche|cycle|skin|maintains|survival|mice|proliferation|regeneration|progenitors|clock genes|medial prefrontal cortex|amygdala|hippocampus|paraventricular nucleus of the hypothalamus|pregnancy|allergic asthma|autism|cytokines|corticosterone|mouse|behavior|segmented filamentous bacteria|sclerosis functional composite|protein-coupled receptor|chain fatty acid|development|dropping|enzyme immunoassay|hpa axis|passeriformes|adrenocortical stress-response|glucocorticoids|non-invasive|stress|enzyme immunoassay|circadian rhythm|environmental enrichment|alzheimer's disease|anxiety|chronic stress|hpa axis|neuropsychiatric disturbances|preclinical research|Adipokines|Adipose Tissue/physiology|Animals|Cytokines|*Insulin Resistance|*Leptin|Mice|Muscle|corticosterone|daily mood variations|melancholic depression|monoamines|mt1 receptors|norepinephrine|cocaine|corticotropin-releasing factor (crf)|receptor|hypothalamus-pituitary-adrenal (hpa) axis|rewire|glucocorticoids|fear conditioning|memory discrimination|memory generalization|stress|systems|coronary|african grey parrot|stress|corticosterone|feather picking|feather plucking|physiological stress|indicating|breeding preparation|vernal migration|testosterone|gonadotropin-releasing hormone bioassay|white|testosterone|migration|birds|breeding preparation|annual cycle|white-crowned sparrows|fat deposits

primary adrenal insufficiency | mineralocorticoid receptor | glucocorticoid-receptor | addisons-disease | f
Animals | Disease Models, Animal | *Epilepsy, Temporal Lobe/metabolism | Female | Hippocampus/meta
aldosterone | endothelial dysfunction | microvascular dysfunction | mineralocorticoid receptor | mineral
Animals | Female | Male | Mice | Membrane Glycoproteins | *Neuronal Plasticity | *Stress, Psychological | E
flow cytometric analysis (facs) | immune system | oxidative burst | phagocytosis | reptile | ultrastructural c
mice | unpredictable stress | adolescence | corticosterone | behavior | neurochemistry | receptor expressio
rodent fmri | human mri scanner | deep-brain stimulation | novel electrodes | translational research | cust
chronic jetlag | circadian clock | ghrelin | short-chain fatty acids | time-restricted feeding | randomized con

cannabinoid 1 receptor | corticosterone | emesis | hpa axis | nausea | synthetic cannabinoid | cyclic vomitir

delta(9)-tetrahydrocannabinol (thc) | cannabinoid hyperemesis syndrome (chs) | hypothalamic-pituitary
animal welfare | behavior | crate height | female turkey | transportation | cage height | hens | welfare | stres
keratinase | corticosterone | solid-phase extraction | enzyme immunoassay | keratin | long-term stress | ha
acute mild stress | circadian rhythm | corticosterone | nutritional supplementation | rhodiola | depressive-
fish hydrolysate | stress-responsive gene | low molecular weight peptides | hpa axis | psychological stress
dairy lipid | dha | microglia | neurogenesis | hpa axis | pufa | depressive-like behavior | alpha-linolenic acid |
Animals | Corticosterone | Disease Models, Animal | *Habituation, Psychophysiological/physiology | Immur
*Age Factors | Animals | Locomotion/*drug effects | Male | Mice | Nicotine/*pharmacology
Animals | Male | Female | *Spheniscidae/metabolism | Glucocorticoids/metabolism | Immunoenzyme Tec
t-cell development | mesenchymal transition | cre recombinase | genome-wide | expression | protein | mir
Mice | Animals | Blood-Brain Barrier/metabolism | Dextran/pharmacology | Oligonucleotides, Antisense
seasonality | stress responses | corticosterone | life history stages | northern cardinal | cardinalis cardinalis
obesity | high-fat diet | time-restricted feeding | body weight | glucose tolerance | aging | circadian rhythm
brominated flame retardant | endocrine disruptor | aldosterone | cortisol | adrenal gland | adrenal cortex |
hypoglycemia | starvation | recurrent hypoglycemia | diabetes complications | leptin | insulin-induced hyp
captive-induced stress | enzyme immunoassay | fecal glucocorticoid metabolites | physiological stress ii
*Corticosterone | Female | *Glucocorticoids/metabolism | Humans | Male | Stress, Physiological/physiolo
breast cancer | mastectomy | neuroinflammation | microglia | priming | necrosis-factor-alpha | 20-year foll
lipocalin-type prostaglandin d-2 synthase | metabolic syndrome | hypercholesterolemia | hyperglycemia
Animals | Energy Metabolism | Feeding Behavior | *Hallucinogens/pharmacology | Humans | Mice | Obesit

mdma | ecstasy | neutrophils | neuroimmunomodulation | corticosterone | catecholamines | listeria mono
stress | anxiety | return of fear | fear conditioning | extended amygdala | pvt | environmental enrichment p
self-injurious-behavior | urinary cortisol responses | personality dimensions | immune function | stress | r
major depression | chronic mild stress | psychosocial stress | corticosterone | open field | forced swim
base-line | body condition | dairy-cattle | clutch size | stress | birds | incubation | behavior | wild | disturbance
corticosterone | caloric stress | immunoglobulins | termmanipulation | impairs performance parameters |
cort | dhea | territoriality | adrenal | adrenocortical | androgen | testosterone | estrogen | steroids | aggressio
lymphopoiesis | immunity | t cell | lymphocytes | antigen receptor | chronic ultramild stress | bone-marrow
alveolar bone loss | inflammation | models, animal | periodontal diseases | restraint, physical | probiotics |
Carnivore | Desiccation | Endocrinology | Glucocorticoids | Reproduction | Silica | Validation
crebrf | hpa axis | glucocorticoids | glucocorticoid receptor | anxiety-like behavior | restraint stress | luman,

neuroendocrine adaptation | energy expenditure | food intake | pomc | energy homeostasis regulation | h
central amygdala | rat | stimulation | oxytocin | brain | organization | responses | circuits | cells | lines
amphibian pleurodeles-waltl | immune-system | space-flight | simulated weightlessness | spaceflight con

auditory evoked potentials|auditory thresholds|corticosterone|estradiol|mate choice|oviposition|pl
maternal immune activation|prenatal infection|hypothalamic-pituitary-adrenal axis|ultrasonic vocali
social defeat stress|induced sensitization|cross-sensitization|use disorder|cocaine|mechanisms|sus
adipose tissue|androgens|glucocorticoid|insulin resistance|brown-adipose-tissue|metabolic syndron
hypercortisolism|corticosterone delivery|glucocorticoid-induced dysmetabolism|insulin-resistance|s
Animals|Dendritic Spines/physiology|Hypothalamo-Hypophyseal System|Mice|Mice, Inbred C57BL|*
amphibian pleurodeles-waltl|estrogen-receptor-alpha|t-cell development|gene-expression|epigenet

intestinal microbiota|brain-development|gene-expression|physiology|behavior|health|system
cannabis|vapor|thc|stress|corticosterone|self-administration|animal model|cross-sectional survey|
prepulse inhibition|receptor agonists|dopamine release|stress|mice|stereotypies|disorder|children
11-beta-Hydroxysteroid Dehydrogenase Type 1/genetics/metabolism|Adrenocorticotrophic Hormone/
pituitary-adrenal axis|restraint stress|estrous-cycle|plasma-corticosterone|biomedical-research|rest
Humans|Animals|Rats|Mice|Swine|*Organic Cation Transport Proteins|HEK293 Cells|*Salts|Rodent
circadian rhythm|telomere shortening|chronic jet lag|shift work|diabetes|chronic jet-lag|DNA-dama
Adaptation, Physiological|Adaptation, Psychological|Animals|Birds|*Ecosystem|Glucocorticoids|*Ur
corticosteroid-binding-globulin|cortisol|responses|delivery|stress|mass
gut-brain axis|psychobiotics|rats|corticosterone|males and females|depressive-like behavior|depres
endurance exercise|forced running wheels|treg cells|cd8(+)|foxp3(+) ratio|solid tumor progression|u
environmental enrichment|animal welfare|nocturnal species|goal-based enrichment|corticosterone
tail-vein injection|gene-expression|ppar-alpha|dcas9-peptide repeat|methylation|transcription|tran
glucocorticoid|corticotropin releasing hormone|motor coordination|cognitive function|brain metabc
minocycline|ethanol|ccl2|tnf alpha|amygdala|corticosterone|anxiety-like behavior|messenger-rna i
Mice|Male|Female|Animals|*Glucocorticoids|Corticosterone|Ghrelin|Amyloid beta-Peptides/metak
glutamic-acid decarboxylase|calcium-binding proteins|neurotrophic factor|synaptic plasticity|social-l
bbb|glucose metabolism|sleep duration|sleep restriction|transport|spinal-cord-injury|nitric-oxide sy
transcription factors|metabolic syndrome|read alignment|receptor|mediator|liver|gene|e2a|foxo1
alzheimer's disease|amyloid beta-peptide|astrocytes|diabetes mellitus|type 2|glucose|glucose trans
Animals|Corticosterone|Dexamethasone/toxicity|Glucocorticoids/toxicity|Inflammation|Insulin/met
Rats|Male|Animals|Glucose|Receptors, Glucocorticoid|Blood Glucose Self-Monitoring|Irritants|Bloc
adrenalectomy|glucocorticoid receptor agonist|adrenergic receptor agonist|ozone|lung inflamation
antidepressant treatment|paraventricular nucleus|dorsoventral axis|neurons|stress|hypothalamus|c
clock gene-expression|messenger-rna|paraventricular nucleus|nervous-system|protein-kinase|cortic
exercise|genotype-by-environment interaction|maternal diet|selection experiment|spontaneous phy
astrocytes|cytokines|glucose metabolism|hypothalamus|microglia
dysfunction|metabolism|m micronutrient|nutrition|reproduction|thyroid|oxidative stress|supplement
dohad|m micronutrients|pregnancy|reproduction|selenoprotein|endocrine|insulin sensitivity|diabete
anxiety|bed nucleus of stria terminalis|chronic stress|corticotropin releasing hormone|excitatory syr
neurotrophic factor bdnf|protein-kinase-c|maternal separation|synaptic plasticity|cognitive function
refinement|injectable anesthetic|chloral hydrate|complete reversal anesthesia|adult male-rats|intra
Mice|Animals|*Depression/therapy/etiology|Reactive Oxygen Species|Brain-Gut Axis|*Gastrointesti
tree swallow|anthropogenic noise|chronic stress|feeding rate|insect bolus|nestling body condition|l
tree swallows|chronic stress|traffic noise|behavior|sleep|physiology|exposure|resilience|nestlings|
protein-protein interactions|element-binding protein|amp-responsive element|somatostatin gene|n
Amygdala/*metabolism|Animals|Female|Hypothalamo-Hypophyseal System/metabolism|Luteinizing
attention|touchscreen|cognitive flexibility|parkinson's disease|vacht|vesicular acetylcholine transpo
prepubertal growth|growth hormone|homeostasis|catch-up growth|bone-growth|hormone|mass
social instability|hair corticosterone|anxiety|hair cortisol concentrations|anxiety-like behavior|anim
chronic social isolation|exercise|hair corticosterone|prairie vole|microtus ochrogaster|female|plas
acute psychogenic stress|chronic psychogenic stress|corticosterone|hpa axis|hypophagia|pituitary a

laboratory mice | environmental enrichment | cage enrichment | social-factors | behavior | stress | distress
*Alzheimer Disease/metabolism | Animals | *Dementia, Vascular/metabolism | Female | Hippocampus/n
Animals | *Corticosterone/metabolism | Female | Glucocorticoids | *Lactation/physiology | Male | Rats | Ra
Animals | Anxiety/*metabolism/pathology | Apoptosis | Behavior, Animal | Cytokines | Depression/*meta
endometriosis | stress | adipose | inflammation | cytokine | mice | peritoneal-fluid | stromal cells | restraint s
diabetes | streptozotocin | fractalkine | cx3cr1 | memory | mice | hippocampal synaptic plasticity | diabetic-
glucocorticoids | hypothalamus-pituitary-adrenal axis | mitotane | personality | behavioral syndrome | son
HPA axis | anxiety-like behavior | early life stress | mPFC | neuroendocrine
corticosterone | na-k atpase | recovery | single and multiple platforms | small and large platforms | stress
pituitary-adrenal axis | induced acth-secretion | male-rat | paraventricular nucleus | inhibition | glucocortic
glucocorticoid measurement | corticosterone | stress | mice | blood sampling | rats | incision | cortisol | rode
non-centrifuged cane sugar | serum corticosterone | antioxidant activity | p-coumaric acid | p-hydroxyber
antioxidant activity | anti-stress effect | hepatic lipid accumulation | non-centrifuged cane sugar | p-hydro
messenger-rna expression | neurotrophic factor | induced teratogenicity | prenatal exposure | restraint st
Acute-Phase Reaction/genetics/metabolism | Animals | Circadian Rhythm/genetics | Female | Gene Expre
pregnancy | corticosterone | pre-conceptual stress | rats | sex differences | serotonin reuptake inhibitors
pregnancy | corticosterone | maternal depression | selective serotonin reuptake inhibitor | sertraline | pre
females | corticosterone | neurogenesis | depression | stress | administration methods | hippocampal cell-
sepsis | thymus involution | sphingosine-1-phosphate | t cells | apoptosis | sphingosine kinase type-2 | lym
animal model | stress | mixed housing | stress-related genes | behavioral interventions | social enrichment
muscle atrophy | respiratory muscles | weaning | reactive oxygen species | skeletal-muscle myoblasts | rer
animal welfare | human-animal interaction | rats | animal handling | positive affective states | play | 50-khz

Animals | Behavior, Animal | Blood Glucose/analysis | Carotid Stenosis/*complications | Cerebrovascular
i.v. morphine self-administration | acoustic startle reflex | prepulse inhibition | brain-derived neurotroph
animal welfare | environmental enrichment | housing | laboratory animals | stress evaluation
repeated restraint stress | brain oxidative stress | hippocampus | microglia | aquilariae lignum | glucocortic
chronic fatigue syndrome | animal model | lipopolysaccharide | polyinosinic: polycytidylic acid | adrenalet
Animals | Corticosterone | *Hierarchy, Social | Male | Mice | *Social Dominance | Transcriptome | Dominanc
bone remodeling | b-cell differentiation | gravity | immunosenescence | hematopoietic stem-cells | amphi
Animals | *Energy Metabolism | Hypothalamus/*physiology | Leptin/*physiology | Mice | Neurons/*physi
heat stress | follicular cell apoptosis | fasl/fas signaling | tnf-alpha signaling | laying hen | corticotropin-rele
repetitive restraint stress | spleen | glucocorticoid receptor | beta-adrenergic receptor | ru486 | propranol
morus alba | sanggenon g | depression | serotonin | forced swim test | forced swimming test | acetate solu
duchenne muscular dystrophy | dystrophin | fibrosis | hypothalamic‐pituitary‐adrenal a:
Animals | Female | Humans | Male | Mice | Aldosterone | Corticosterone | *Dystrophin/metabolism | Estradi
dietary restriction | superoxide-dismutase | calcium homeostasis | caloric restriction | physical-exercise | c
eco-technical interface | instrumentalization | multispecies design | noticing | poetic contextual inquiry
ethanol | sex differences | stress history | relapse | footshock | mifepristone | gender-differences | subcellul
sex differences | stress-induced analgesia | acute restraint | pain | central nucleus of the amygdala | cortic
Amygdala/metabolism | Animals | *Gray Matter/diagnostic imaging/metabolism | Hippocampus/metab

beta-adrenergic agonist | ractopamine | zootechnical performance | metabolism | elevated plus-maze tes
sickness behaviors | cytokines | progesterone | corticosterone | testosterone | tumor necrosis factor | inter
Animals | *Autism Spectrum Disorder/genetics | *Autistic Disorder/genetics | Disease Models, Animal | F
stress | neuropeptide y | asthma | cell infiltration | airway inflammation | airway inflammation | mast-cells |
gonadotropin-releasing-hormone | ii glucocorticoid-receptor | stress-induced suppression | messenger-r
sphingolipids | neurodegeneration | ceramide | cln3 disease | cln3(delta ex7/8) mice | flupirtine | allyl carb

Mice|Male|Animals|*Alcoholism/drug therapy/psychology|Tubulin|Mice, Inbred C57BL|Alcohol Drir
ehrlich tumor|neutrophil|open-field behavior|noradrenaline|stress|gender|neuroimmunomodulatic
Central serous chorioretinopathy|choroidal thickness|corticosterone|optical coherence tomography|

immune-response|gene-expression|lipopolysaccharide|antibody|interleukin-10|inflammation|alterr
fertility|hpa axis|puberty|reproduction|rfrp|stress|gonadotropin-inhibitory hormone|pulsatile lutein
anthropogenic noise|circling|low frequency|high frequency|mining|stress|reproductive-cycle|circlin
early-life stress|two-hit model|psychopathologies|bdnf|glucocorticoids

disuse-induced atrophy|physical inactivity|body composition|muscle performance|bone density|cor
range expansion|life-history|glucocorticoid concentrations|passer-domesticus|breeding biology|stre
Animals|Compulsive Behavior/psychology|Corticosterone|*Hypothalamo-Hypophyseal System|*Pitu
stress|win-stay|lose-shift|exploration|exploitation|competitive choice|chronic mild stress|sex-differ
oxytocin|mating behavior|creb|bdnf|depression|stress|brain oxytocin|depression|regulator|recept
Animals|Gene Expression Regulation/*drug effects|Humans|Insulin/metabolism/*pharmacology|Liv
Acids/pharmacology|Adaptation, Physiological|Animals|Anura/metabolism|*Corticosterone/metab
handling|ectotherm|reptile|natricinae|multispecies|stress-induced suppression|steroid-hormone pr
chronic unpredictable stress|psychological stress|disease|physiological response|c57bl/6|blood|ane
budgerigar|cognition|cognitive performance|neophobia|personality|stress|problem-solving perform
anxiety|depression|enkephalin|gene expression|paraventricular nucleus|delta-opioid receptors|cort
Animals|Behavior, Animal/physiology|Circadian Rhythm/*physiology|Conditioning, Classical/physiolo
early life|incubation|bacteria-killing ability|innate immunity|corticosterone|florida scrub-jays|life-hi

wheel running|anxiety|spontaneous recovery|fear extinction|fear renewal|direct pathway|striatum
anxiety|depression|f344 rats|gut microbiota|lactoferrin|prebiotics|receptor|anxiety
individual variation|oxidative stress|neuromuscular system|heritable variation|hormone-levels|testc
Animals|Mice|Circadian Rhythm/physiology|*Extinction, Psychological/physiology|Fear/physiology|*

ozone|pregnancy|implantation|trophoblast|invasion|sft1|ambient air-pollution|birth outcomes|fet
ozone|stress response|metabolism|insulin resistance|pancreatic beta cells|fine particulate matter|b
phospholipase-d|n-acylethanolamines|faah inhibitor|anandamide|extinction|biosynthesis|activator
broilers|heat stress|gut microbiota|mental status|gut-brain axis|stress indicator
urinary dysfunction|bladder|neurotrauma|corticosterone|medullary collecting duct|antidiuretic-hor
corticosterone|early-life adversity|learning and memory|nicu|rat|sex differences|stress|long-term c
l-histidine decarboxylase|transgenic mice|receptor|activation|brain|gene|inflammation|cells|h-1|si
hypoglycemia|diabetes|leptin|leptin receptors|zucker rats|adipose-tissue|secretion|type-1|brain|si
hypoglycemia|ketosis|diabetes complications|carbohydrate restriction
cox-2|liver|steatohepatitis|inflammation|fibrosis|hepatic stellate cells|prostaglandin e-2|transformii
animal model|autism|cytokines|infection|inflammation|maternal immune activation (mia)|poly(i:c)
rabbit does|housing system|reproductive rhythm|welfare|performance|wild rabbits|behavior|perfo
acute psychogenic stress|chronic psychogenic stress|hpa axis|pituitary adenylate cyclase-activating p
Animals|Corpus Luteum/metabolism|Corticosterone/metabolism|Female|Growth Hormone/metab
chronic stress|frontal cortex|raphe|serotonin|corticotropin-releasing-factor|messenger-rna levels|nr
central-nervous-system|elevated plus-maze|prefrontal cortex|immune activation|progenitor-cell|br
affective disorders|aggression|female|ketamine|social defeat stress|social interaction|c-fos expressi
am251|endocannabinoid|stress|hpa axis|limbic|dosage|adrenal|pituitary-adrenocortical axis|fast fe
nicotine|cotinine|corticosterone|lcms|sex|c57bl/6j mouse|plasma levels|subcutaneous injection|c-
Animals|Apolipoproteins E|Biomarkers|Blood-Brain Barrier|Corticosterone|Esters|Fatty Acids, Volati
nhe|immunohistochemistry|aquaporin 4|corticosterone|glucocorticoid|mineralocorticoid|microglia
Administration, Oral|Allergens/administration & dosage/immunology/*metabolism|Anaphylaxis/imr
stress|social defeat|drug abuse|corticosterone|mice|self-administration|animal models|ethanol|ve

social interactions|decision|aggression|dominance|beta 2 nicotinic receptor|corticosterone|scent m
conservation|dehydroepiandrosterone|endocrinology|orca|reproduction|bottle-nosed dolphins|sex
stress|glucocorticoid|glucocorticoid receptor|mineralocorticoid receptor|neurodegeneration|neurog
asthma|prolactin|domperidone|lung|macrophage activity|domperidone treatment|sexual-behavior
Administration, Inhalation|Aluminum Hydroxide/pharmacology|Animals|Bone Marrow/immunology
mastication|gaba|dendritic spine|thalamus|transcriptome|receptor-associated protein|spatial mem
early-life stress|resilience|addiction|negative reinforcement|coping|chronic ethanol exposure|tail su
Animals|Animals, Newborn|Anxiety/metabolism/physiopathology|Behavior, Animal/*physiology|Co
maternal behavior|bdnf|ros|prolactin|oxytocin|corticosterone|multiple platform method|maternal-
maternal care|telemetry|febrile response|interleukin-6|nf kappa b|corticosterone|glucocorticoid re
Animals|*Corticosterone|*Microbiota|Mouth|Proteomics|RNA, Ribosomal, 16S/genetics|Rats|Rats,
Animals|Blood Glucose/*metabolism|Fasting/*blood|*Gluconeogenesis|Glucose-6-Phosphatase/ger
fischer rat|gavage|glucose tolerance test|hormone|inflammation|intraperitoneal injection|metaboli
Animals|Anti-Inflammatory Agents, Non-Steroidal/*pharmacology/therapeutic use|Apoptosis/*drug
acetylcholine|acetylcholinesterase|butyrylcholinesterase|cytokines|physostigmine|surgical interven
Female|Humans|*Corticotropin-Releasing Hormone/pharmacology|*Hypothalamo-Hypophyseal Syst
european starlings|glucose levels|body-size|blue tit|responses|plasma|birds|load|domesticus|para
starling sturnus-vulgaris|nestling european starlings|brood-reduction hypothesis|finch taeniopygia-gu
glucocorticoids|mirs|receptor regulation|sepsis|tnf|tumor-necrosis-factor|receptor dimerization|lps
aging|chronic stress|acute stress|gravity|hippocampus|transcriptome|illumina|gene-expression|me
rev-erb-alpha|hepatic growth-hormone|circadian clock|peripheral-tissues|transcriptional architectur
sexual dimorphism|liver|nanosttring|inflammation|corticosteroid|primary sjogrens-syndrome|uterin
11-beta-hydroxysteroid dehydrogenases|diabetes-mellitus|pregnancy|exposure|liver|expression|dis
adipose-tissue|fatty liver|autoimmune hepatitis|gene-expression|womens health|knockout mice|br
eastern fence lizard|sceloporus-undulatus|adrenocorticotropic hormone|physiological stress|respon
ketamine|fear memory|corticosterone|progesterone|antinociception|ptsd|animal-model|progester
emotional stress|nitric oxide|corticosterone|endothelium|vascular smooth muscle|endothelium-deq
captive populations|endangered species|glucocorticoids|parrot|reproductive success|seasonality|pu
Acoustic Stimulation|Action Potentials/drug effects/physiology|Animals|Cocaine/*pharmacology|Dis
social stress|hpa-axis|hypertension|muscular dystrophy|utrophin|chronic psychosocial stress|shock
domestic cats|cat welfare|environmental enrichment|behavioural stress scoring|faecal glucocorticoid
chronic mild stress|receptor messenger-rna|immediate-early genes|cell lung-cancer|defeat stress|ar
cort-adaptation hypothesis|corticosterone|feather clipping|glucocorticoids|tachycineta thalassina|vi
orca|dehydroepiandrosterone|androstenedione|testosterone|cortisol|corticosterone|pregnancy|hc
Animals|Animals, Newborn|Behavior, Animal|*Corylus|Female|Humans|Infant, Newborn|Infant, Pre
plasma
aging-associated renal physiology|c1q|tnf-related protein 1|kidney function|adipose-tissue inflamma
pituitary adenylate cyclase activating polypeptide (pacap)|pac1 receptor|bed nucleus of the stria terr
Animals|Corticosterone/*blood|*Diet|Female|Male|Rats|Rats, Wistar|*Sex Factors
glutathione|tbars|corticosterone|pollutants|oxidative stress|alligators alligator-mississippiensis|indu
acid-binding protein|gestational diabetes-mellitus|gluconeogenesis|fetal|macrophages|adipocytes|;

Animals|Cell Line, Tumor|Chronic Disease|Corticosterone/pharmacology|Cytotoxicity, Immunologic|
stress|fight-or-flight response|hypothalamus-pituitary-adrenal (hpa) axis|sympathetic nervous system
hypothalamic paraventricular nucleus|receptor-like immunoreactivity|corticotropin-releasing factor|:
Adrenocorticotropic Hormone/metabolism|Animals|Feces|Glucocorticoids/metabolism|Hypothalam
Animals|Rana temporaria/metabolism|Larva/metabolism|*Corticosterone/metabolism|Nitrates|Env
adult hippocampal neurogenesis|enhanced synaptic plasticity|neurotrophic factor|pattern separati
catecholamine-synthesizing enzymes|chronic mild stress|chromaffin cells|gene-expression|tyrosine-l
scorpion venom|hottentotta rugiscutis|neuroendocrine-immune system|acute stress|corticosterone

cannabinoids|behavior|memory|forced swimming stress|induced noradrenergic activation|endocan
11 beta-hydroxysteroid dehydrogenase type 1|11 beta-hsd1|pituitary|hpa axis|rheumatoid arthritis|
extinction|mouse|persistence|individual differences|depression|general learning-abilities|early-chil
Animals|Corticosterone|Hydrogen-Ion Concentration|Larva/physiology|*Predatory Behavior/physiol
3rs|animal model|maternal immune activation|micropipette-guided drug administration|oral gavage
serotonin reuptake inhibitors|hippocampal bdnf gene|anxiety-like behavior|early-life exposure|pren
basolateral amygdala|social cognition|cortical control|inhibition|recognition|behavior|excitation/int
blast|post-traumatic stress disorder|stress|traumatic brain injury|veteran|posttraumatic-stress-disor
pituitary-adrenal axis|social-isolation|body-weight|adipose-tissue|environmental-temperature|deve
stress|norepinephrine|fast-scan cyclic voltammetry|optogenetics|bed nucleus of the stria terminalis
central-nervous-system|attenuated recombinant rabies|l-carnitine|cerebrospinal-fluid|alzheimers-di:
pc1|3|peptide hormone|endocrinopathy|prohormone processing|pcsk1|gastrointestinal absorption
enterica serovar typhimurium|stress impairs performance|laying hens|heat-stress|gallus-domesticus
anxiety|eph receptor|ephrin-a5|estrogen|maternal care|nest building|progesterone|pup retrieval|ε
kami-shoyo-san|hpa axis|receptor subtypes|restraint stress|5-ht1a|brain|expression|binding|cortic

adult neurogenesis|social-behavior|violence|neurons|stress|abuse|hippocampus|exposure|health|
sonic-hedgehog|growth-modulation|in-vivo|muscle|morphogenesis|architecture|progenitors|inhibi
delta-9-tetrahydrocannabinol|sex differences|puberty|emotionality|cb1 receptor expression|cortico
artificial selection|body composition|exercise|food consumption|growth|locomotion|depression-lik
nitric-oxide production|endothelial dysfunction|hypertensive-rats|mental stress|genetic predispositi
induced pulmonary|obesity|health|exposure|inflammation|mechanisms|inhalation|polyamines|inc
fixed-interval performance|posttranslational histone modifications|deficit hyperactivity disorder|cor
air pollution|sex-specific|testosterone|fetal origins|social behavior|autism spectrum disorder|partic
epigenetics|lead|prenatal stress|glucocorticoids|DNA methylation|DNA methyltransferases and bind
ecoimmunology|altitude|stress|gastro-intestinal parasites|immune response|nannospalax|herbivor
high responders|low responders|nucleus accumbens shell|camkii|cie|ethanol self-administration|pr
corticosterone|glucocorticoid receptor|aggression|anxiety|abstinence|medial prefrontal cortex|cort
Animals|Brain/physiology|*Hypothalamic Area, Lateral/physiology|Mice|Neurons/physiology|Sleep/
sepsis|stress|depression|anxiety|post-traumatic stress|corticosterone|glucocorticoid-receptor overe

social defeat|stress|anxiety|mice|cytokine|corticosterone|major depressive disorder|endothelial gr
Pregnancy|Animals|Rats|Humans|Male|Female|Adolescent|*Diet, High-Fat/adverse effects|Rats, Lc
arachidonic acid|hpa axis|aging|stress|pituitary-adrenal axis|docosahexaenoic acid|hpa axis|psycho
parkinson's disease|stress|ventral tegmental area|arcuate nucleus|hypothalamus|dopamine|tyrosin
Rats; Animals; Male; Protein Phosphatase 1/metabolism; *Protein Tyrosine Phosphatases/metabolis
DNA methylation|epigenetics|stress response|tree swallow genome|tree swallows|profiles|blood|e
evolutionary endocrinology|glucose regulation|stress response|acute stress|glucocorticoids|evolutic
phenotypic integration|plumage signal|social feedback|tree swallows|stress|care|flexibility|informa
glucocorticoids|plumage signals|social feedback|oxidation handicap hypothesis|base-line glucocortic
cylinder test|beam test|il-1 beta|ccl2|tgf beta|il-6

Aging/*immunology|Animals|*Caloric Restriction|Cell Differentiation/*immunology|Cellular Senesce
transcription factor|cyclosporine-a|genetic risk|t-cells|differentiation|polymorphisms|maturation|in
corticosterone|fecal glucocorticoids|lontra canadensis|reintroduction|river otter|glucocorticoids
Female|Mice|Animals|*Diet, High-Fat/adverse effects|*Corticosterone|Mice, Inbred ICR|Obesity/eti
brain derived neurotrophic factor|depressive behavior|olfactory bulbectomy|silymarin|monoamines
acute restraint stress|serum corticosterone|depressive like-behavior|hippocampal antioxidants|proti
antidepressant activity|chronic unpredictable mild stress|protocatechuic acid|mice neurobiochemica
Adipocytes/metabolism|Animals|Fatty Acids/metabolism|*Glucocorticoids/pharmacology|Glucose/r
air pollution|ozone|glucocorticoid|inflammation|injury|pituitary-adrenal axis|susceptible lewis rats|

Air Pollutants/*toxicity|Animals|Bronchoalveolar Lavage Fluid/chemistry|Corticosterone/metabolism
stress hormone|glucocorticoid|corticosterone|bronchoalveolar lavage fluid|plasma|lungs|inflammat
air pollution|ozone|glucose tolerance test|stress hormone|metabolic|endocrine|fine particulate ma
Air Pollutants/*toxicity|Animals|Corticosterone/metabolism|Gene Expression Regulation/*drug effec
leptin|adipocyte|glucocorticoid|enterocyte|plasma leptin|gene-expression|messenger-rna|food-int:
dopamine|early life stress|maternal separation|resilience|stress|working memory|chronic mild stre:
sleep fragmentation|sleep disturbances|gut microbiota|intestinal permeability|microbial invasion|m

arsenic|psychiatric disorders|neurogenesis|fluoxetine|stress|prenatal alcohol exposure|glucocortico
cortisol concentrations|body-weight|mental-health|social stress|bedding type|adolescence|environ
corticosterone|development|songbird|stress physiology|stress response|swallow|thermal effects|tr
Animals|*Diet, High-Protein|*Glucagon/metabolism|Glucagon-Like Peptide 1/metabolism|Mice|Pep
scavenger receptor|DNA-binding|sr-bi|domain|gene|gr|identification|mechanisms|proteins|alpha
crosstalk|hypoxia|inflammation|mechanism|metabolism|fatty-acid oxidation|corticosterone respon:
endothelial growth-factor|septic shock|receptor dimerization|glucose-homeostasis|critical illness|hy
social isolation|chronic mild stress|defensive burying|immobility|ethanol|adolescent social-isolation
2-AG, 2-arachidonoyl glycerol|AEA, anandamide|CB1, cannabinoid type 1 receptor|CRH, corticotropi
carry-over effect|corticosterone|fitness|life-history trade-off|oxidative stress|parental behaviour|tre

gonadotropin-releasing-hormone|functional hypothalamic amenorrhea|ii glucocorticoid-receptor|5-
rat|pregnancy|development|buprenorphine|neonatal opioid withdrawal|opioid maintenance therap
body mass|climate change|glucocorticoids|mammal|metabolic rate|thermal stress|wildlife|ochotor
broiler|corticosterone|feather|stress|well-being|plasma-corticosterone concentrations|feather corti
phytoestrogen genistein|gene-expression|in-utero|reproductive-tract|epigenetic marks|receptor-al
childhood adversity|maternal separation|ventral hippocampus|corpus-callosum|brain|fear|maltreat
norepinephrine|alpha(2)-adrenergic stimulation|panic|arousal|depression|ptsd|fear-sensitization|p

climate change|ecophysiology|glucocorticoids|mark-resight|rocky mountains|sentinel species|stress
Climate change|field endocrinology|sentinel alpine species|stress

sierra-nevada|fecal glucocorticoids|periglacial landforms|generalist herbivore|great-basin|survival|g
climate sensitive mammal|localized environmental effects|microclimate|multiregional assessment|n
Adrenal Glands/immunology/*metabolism|Animals|Brain/immunology/*metabolism|Inflammation/
fasting|stress|corticosterone|gonadotropin inhibitory hormone|corticotropin releasing hormone|zek
songbird|zebra finch|lipopolysaccharide|starvation|physio-behavioural network|corticosterone|acut
broiler harvesting|stress|behaviour observation|mechanical harvesting|manual harvesting|laying he
echinococcus multilocularis|microtus agrestis|tnf|corticosterone|secondary alveolar echinococcosis|
echinococcus multilocularis|microtus arvalis|protoscolices|secondary alveolar echinococcosis|glucoc
anxiety-like behavior|gut microbiota|gastrointestinal dysfunction|bacteria|mechanisms|preference|
depression|chronic mild stress|glucocorticoid receptors|fkbp5|neurotrophic factor|brain|bdnf|serot
rfrp|gnih|kiss1|kisspeptin|restraint|stress|corticosterone|gonadotropin-inhibitory hormone|rfamid
luteinizing-hormone secretion|restraint stress|sex-differences|gene-expression|induced suppression
bone loss|glucocorticoid|hindlimb unloading (hlu)|bone formation|bone resorption|11-beta-hydroxy
Animals|Female|Mice|*Corticosterone/pharmacology|*Lactation|Reproduction/physiology|Oxidativ
chronic stress|sex differences|mood disorders|social instability|chronic mild stress|adult hippocamp
*Paraventricular Hypothalamic Nucleus/metabolism|*CD8-Positive T-Lymphocytes/metabolism|Hypc
Mice|Animals|*Corticosterone/metabolism|*Hyperalgesia/etiology/metabolism|NF-kappa B/metab
Amidohydrolases|Animals|Antidepressive Agents|Arachidonic Acids|Corticosterone|*Endocannabin
corticosterone|microglia|stress|stroke|vessels|cell-proliferation|stroke|recovery|phagocytosis|mec
neurovascular unit|corticosterone|microglia|astrocytes|neurons|stroke|vessels|structural plasticity
sensory neurons|hair follicle|cutaneous melanoma|resiniferatoxin|activation|capsaicin|niche|identi

blood pressure | circadian rhythms | time-restricted feeding | sodium excretion | bmal1 | glomerular-filtration | acetylation | locus ceruleus | metabolics | mitochondria | oxidative stress | sleep deprivation | sleep-waking | Humans | Mice | Female | Rats | Animals | *Corticosterone/metabolism | Adrenal Glands/metabolism | Zonula occludens | plasticity | glucocorticoids | corticosterone | resilience | exploration | neophobia | gene-expression | epigenetics | Animals | *Glucocorticoids/metabolism | Hypothalamo-Hypophyseal System/metabolism | Receptors, Glucocorticoid | animal model | blast wave | glucocorticoids | hpa axis | mtbi | ptsd | secondary prevention | traumatic brain injury | lithium | memory | type-1 | neurogenesis | stress | proliferation | progression | impairments | plasticity | survival | fecal hormones | glucocorticoids | phycotoxin | wildlife health | validations | excitatory amino-acids | sea lice | glucocorticoid | corticosterone | androgen | dehydroepiandrosterone | metabolism | food availability | fecal cortisol concentrations | hair cortisol | eubalaena-glacialis | steroid-hormones | fecal glucocorticoids | circadian | Female | Humans | *Progesterone | Receptors, Glucocorticoid | Hydrocortisone | Glucocorticoids | Prospects | hpa axis | fear memory | social isolation | chronic variable stress | ptsd | corticosterone | adrenal glands | pituitary | intravenous ketamine | fear memory | brain imaging | sex differences | stress hormone | post-traumatic stress disorder | auditory brainstem response | corticosterone | estradiol | oviposition | testosterone | temporary threshold | binge alcohol | epigenetic inheritance | preconception habits | pubertal development | social play | exposure | Animals | Female | *Urbanization | *Songbirds | Eggs | Corticosterone | Phenotype | Egg Yolk | House wren | Influenza | mouse model | biomarker | antiviral | c-reactive protein | acute-phase response | animal-model | Animals | *Sparrows | *Methylmercury Compounds | Corticosterone | Seasons | Mercury | Migration | Song | corticosteroids | endocrinology | stress | killer whale (orcinus orca) | feces | bottle-nosed dolphins | tursiops | noninvasive measurement | metabolic-changes | thyroid-hormone | diverse array | pregnancy | postpartum | corticosteroids | sex determination | sex reversal | stress axis | incubation-temperature | lizard | stress | experimental | fecal glucocorticoids | stress | behavior | african elephant | human disturbance | ndvi | loxodonta-africana | Catecholamines | Glucocorticoids | Mild chronic stress model | Neuroendocrine | Ozone | Pituitary hormone | acetylcholinesterase | alzheimer's disease | amyloid beta protein | app/ps1 transgenic mice | md simulation | sepsis | cholinergic biology | acetylcholine release | splenocytes | isoproterenol | t cell activation | vesicular | Acetylcholinesterase/metabolism | Animals | Brain/enzymology/*metabolism/physiopathology | Carotid | cholinergic system | stroke | dementia | biomarker | post-stroke dementia | cerebral infarction | vascular dementia | galantamine | tryptamine | tetrahydroisoquinoline | triazole | click" chemistry

Adult | Apnea | Butyrylcholinesterase/deficiency/*genetics/metabolism | Disease Progression | Female | Catecholamines | butyrylcholinesterase | pulmonary delivery | biologics | micro/nanoparticle | in-vitro | dendritic cells | nanodiamond | drug-metabolizing activity | genetic variants | plasma | rhesus macaque | induced neuromuscular block | nanogel | butyrylcholinesterase | organophosphate | circulation | protein delivery | immune response | recumbent | sudden infant death syndrome | sudden unexpected death in infancy | butyrylcholinesterase | cholinergic

11-beta-hydroxysteroid dehydrogenase type-2 | adrenocorticotrophic hormone | dogs | trilostane | expression | Humans | Male | *Hydrocortisone | *Cortisone | Hypothalamo-Hypophyseal System | Pituitary-Adrenal System | androgens | behavior | glucocorticoids | pteropus | seasonality | fecal glucocorticoid metabolites | adrenocorticotrophic hormone | biomonitoring | conservation physiology | glucocorticoids | physiological stress | 11-beta-hydroxysteroid dehydrogenase | follicular selection | follicular development | cortisol | fsh | apoptosis | glucocorticoid-induced apoptosis | glucocorticoids | cerebrospinal fluid | cortisol | cortisone | agrp | adrenal insufficiency | body-weight | plasma | leptin | proopiomelanocortin | oocyte maturation | camp | ibmx | forskolin | cilostamide | gvbd | activated protein-kinase | bovine oocytes

camp|c/ebp beta|adipogenic differentiation|mesenchymal stem cell|c3h10t1/2|sphingosine-1-phos
alpha-particle radiation|reciprocal bystander effect|camp|membrane signaling|p53|junctional interc
histamine release|mast cells|scratching behavior|agarwood
anthrax|edema toxin|kidney|water reabsorption|collecting duct cells|inhalational anthrax|lethal tox
Animals|Carcinoma, Renal Cell/pathology|Fibrosis/genetics/metabolism/pathology|Genotype|Huma
Animals|*Behavior, Animal/drug effects/physiology|Benzothiazoles/administration & dosage|Catech
Adenine/analogs & derivatives/pharmacology|Animals|Antigens, Bacterial/*pharmacology|Aorta/*d
ovary ecdysteroidogenic hormone|insulin-like peptide|prothoracicotropic hormone|prothoracic glan
gene-expression|clock|rhythm|light|shifts|sleep|oscillations|pharmacology|dynamics|protein
Animal Feed|Animals|CD36 Antigens/*biosynthesis|Calcium/*metabolism|Cyclic AMP/metabolism|
Adenosine Triphosphate/*metabolism|Animals|Ascitic Fluid/drug effects/metabolism|*Autocrine Co
anthrax|edema toxin|lethal toxin|adefovir|arterial contraction|hypotension|inhalational anthrax|m
photoactivated adenylyl-cyclase|spatiotemporal control|light|membrane|system|sspb
cadmium|protein tyrosine phosphorylation|ampk|mouse sperm|gapdh|edta|boar spermatozoa|ene
protein-kinase-a|factor-kappa-b|messenger-ribonucleic-acid|g-alpha-s|differential expression|adeno
protein-kinase-a|human myometrium|transcription factors|mechanical stretch|differential expressio
Adenosine Triphosphate/metabolism|Animals|Cells, Cultured|Cyclic AMP/metabolism|Cyclic AMP-D
chromium|boar|sperm capacitation|signal pathway|protein phosphorylation|oxidative stress|semin
activation|cAMP|dormancy|oocyte|primordial follicle
follicle-stimulating-hormone|in-vitro|ovarian stimulation|signal-transduction|glycan structure|gene-
capacitation|hyperactivation|motility|signaling|spermatozoa|zinc|soluble adenylyl-cyclase|protein-l
salmonella|ssek1|type iii secretion|phoq/phop two-component system|epithelial cells|macrophages
solid-phase extraction|personal-care products|oxidative stress|climate-change|biochemical markers
phosphodiesterase|alzheimer's disease|transgenic mice|oral administration|memory|hippocampus|
thyrotrophin|pars tuberalis|median eminence|neuroendocrine|human thyrotropin receptor|hypoth
human granulosa cells|cryopreservation|camp|fsh|ivf|human embryo development|in-vitro fertiliza
phosphodiesterases type 4d inhibitors|pde4d|camp enhancers|pharmacokinetic properties|microwa
pde4d inhibitors|camp enhancers|memory behavior test|pharmacoldnetic analyses|molecular dynar
fsh|lh|hcg|lhcg|granulosa cells|controlled ovarian stimulation|protein-coupled receptors|plus reco
polycystic kidney|multidrug resistance-associated protein 3 (mrp3)|cell proliferation|cystogenesis|loi
Animals|*Aquaporin 2/genetics/metabolism|LLC-PK1 Cells|Phosphorylation|*Serine/metabolism|Sw
amp-receptor protein|sugar phosphotransferase system|cyclic adenosine-monophosphate|adenylate
salmonella|t3ss|spi-1|spi-2|effector|translational fusion|cyaa’|adenylate cyclase|translocati
nuclear receptor|lysophosphatidic acid|identification|tgr5|derivatives|agonists|liver|itch
Animals|Aquatic Organisms/*drug effects|Digestive System/drug effects|Enzyme Activation/drug effe
5' Untranslated Regions/genetics|ATP Binding Cassette Transporter, Subfamily B, Member 1/*genetics
Animals|*Cells, Cultured|Loop of Henle/*cytology|Mice|Mice, Knockout|Potassium Channels, Inwar
protein kinase a|high-throughput screening|inhibitor|split luciferase|creb|activation|cells|faces|can
acrosomal exocytosis|exchange protein directly activated by cyclic adenosine monophosphate|protei
biomarkers|ethanol|prenatal ethanol exposure|fetal alcohol syndrome|cellular damage|fetal alchoh
h,k-atpase type-2 contributes|adenylate-cyclase|glucocorticoid-receptor|progesterone-receptor|cha
vibrio-cholerae|el-tor|infection|binding
atp|chlamydia trachomatis|drp1|mitochondrial dynamics|oxidative phosphorylation|dependent pro
cyclic adenosine monophosphate|parturition|uterine smooth muscle|smooth-muscle-cells|pregnant
oxidative stress-response|camp receptor protein|antioxidant defense system|cyclic-amp|escherichia
Apoptosis|Mitochondrial membrane potential (MMP)|Nephrotoxicity|SA7K cells|Transporters
proteomics|sperm|comparative reproduction|fertilization|sperm motility|white composite|male-fer
d5r|at1r|nadph oxidase|salt-sensitive hypertension|renal proximal tubule|oxygen species production
pseudomonas-syringae hrpj|yersinia-enterocolitica|2-component system|gene-expression|plant-cells

Animals|Cell Line|Disease Models, Animal|Enterotoxigenic Escherichia coli/*enzymology/*metabolism|heat-labile enterotoxin|intestinal colonization|developing-countries|affinity maturation|antibody-responsiveness|adenylyl cyclase|high-throughput screening|inhibitor|protein kinase a|camp response element binding protein|astrocyte|camp|citrullinated protein|peptidylarginine deiminase|pka|fibrillary acidic protein|scrapie|autosomal dominant polycystic kidney disease|vasopressin|copeptin|gfr|total kidney volume|marker|acth|mc2r|mrp|h295r|cell line|adrenocortical cell-lines|acute regulatory protein|human adrenal-chromaffin|hiv associated neurocognitive disease|dopamine signaling|macrophage|calcium signaling|hiv viral envelope|butyrate|adipocyte|macrophage|lipolysis|prostaglandin e2|chain fatty-acids|necrosis-factor-alpha|alzheimer's disease|colitis|oil|inhibition|quercetin|models|acts|ibid

s1p|sphingosine-1 phosphate|granulosa|creb|steroidogenesis|kinase-c|luteinizing-hormone|polymorphonuclear leukocyte|*Alzheimer Disease/drug therapy/etiology/pathology/psychology|Amyloid beta-Peptides/metabolism|gpr119 agonist|thiazolidinediones (tzds)|type 2 diabetes mellitus (t2dm)|insulin sensitizers|gpr119 antagonist|sympathetic nervous system|ang ii|at(1) receptor and nhe3|proximal bicarbonate|sympathetic-nerve terminal|Adrenergic beta-Antagonists/pharmacology/therapeutic use|Animals|Antihypertensive Agents/*pharmacology|antispasmodic|autodock vina|ca plus plus channel blocker|pde inhibitor|roflumilast|molecular docking|lh|hcg|leydig|camp|testosterone|bioassay|human chorionic-gonadotropin|human luteinizing-hormone|amyloid beta|amyloid precursor protein|alzheimer's disease|rna-binding protein|forskolin|duchenne

exercise|caffeine|inflammation|cytokines|adrenaline|interleukin-10|ingestion|cytokine|activation|glucocorticoid|fshr|lhgr|endometrium|gonadotrophin|steroidogenic genes|stimulating-hormone receptor|cycle-d|camp|co2|golgi|microdomain|ph sensing|sac|cellular mechanisms|gill|transmembrane|expression

Animals|Bees|*Neuropeptides/metabolism|Pheromones/chemistry|*Pollination

hypertension|incretin|renal function|renal vascular resistance|renal artery|sensitive k+ channels|glucocorticoid|adenylyl cyclase|dopamine|g-protein|neuropathic pain|nucleus accumbens|autoreceptor|intracranial|pde-5 inhibitors|cardiotoxicity|oxidative stress|reactive oxygen species|inflammation|myocardial-infarction|Adhesins, Bacterial/metabolism|Antigens, CD/genetics/*metabolism|Bacterial Toxins/metabolism|Cellular|Animals|Calcium Channels, L-Type/*metabolism|Computational Biology/*methods|Gene Expression|Animals|Calcium/*metabolism|Cell Line|Cyclic AMP|Diabetes Mellitus, Type 2/genetics/metabolism|distal tubule|mineral metabolism|signaling|tal|vasopressin|urinary uromodulin|mouse|mutation

1-Methyl-3-isobutylxanthine/pharmacology|Adenosine Triphosphate/*metabolism|Animals|Benzoate|Animals|Diabetes Mellitus, Experimental/*drug therapy/*prevention & control|Diabetes Mellitus, Type 2|Animals|Cell Membrane/metabolism|Cyclic AMP/metabolism|Fluorescence Resonance Energy Transfer|stress|psychological|prefrontal cortex|decision making|risk assessment|epigenetics|histories|corticosteroid|neuroinflammation|autoimmunity|mglur4|noncanonical gpcr signaling|pi3k|src kinase|tryptophan receptor|*Adenocarcinoma of Lung/pathology|Animals|Cell Hypoxia|Humans|*Lung Neoplasms/pathology|Nucleus|iii secretion system|enteric serovar typhimurium|reactive oxygen|intracellular replication|2-component system|amelogenin|enamel matrix derivative|macrophage|microarray|prostaglandin e2|necrosis-factor-alpha|ecklonia cava polyphenol|cytochrome p450 2e1|alcohol dehydrogenase|reactive oxygen species|cyclooxygenase|Mice|Animals|*Diabetes Mellitus, Type 2/metabolism|Mice, Inbred C57BL|Macrophages/metabolism|second messenger|cyclic amp|bpac|photoactivatable adenylyl cyclase|xenopus oocyte|drosophila|retro|proteasome inhibitor mln9708|airway smooth-muscle|multiple-myeloma|osteoblast differentiation|abaloparatide|osteoarthritis|chondrogenesis|mesenchymal stem cells|reactive oxygen species|paratuberculosis|edwardsiella tarda|esab/esal/esam|t3ss|enteropathogenic escherichia-coli|yersinia-pestis-yopn|genetics|Animals|Bacterial Proteins/genetics/metabolism|*Edwardsiella/genetics|*Enterobacteriaceae Infections|Adipocytes/cytology/*enzymology|Adipokines/genetics/metabolism|Adiposity/physiology|Animals|Cholesterol|escherichia coli|enterotoxigenic|subunit vaccines|bacterial genome|antigenic diversity|complete genome

camp|cgmp|cumulus cells|maturation in vitro (ivm)|pigs|developmental competence|meiotic progression|g-protein coupled receptor regulation pathway|insecticide resistance|sf9 cell|permethrin-resistance|3T3-L1 Cells|AMP-Activated Protein Kinases/metabolism|Aminoimidazole Carboxamide/analogs & derivatives

5-ht2b receptor | acetylcholine | gastric accommodation | nitric oxide | stress | corticotropin-releasing-factor | chlamydomonas reinhardtii | guanylyl cyclase | optogenetics | rhodopsin | cyclic gmp | choanoflagellates | optogenetics | rhodopsin phosphodiesterase (rhopde) | cgmp | optogenetic tool | cell | cgmp | nimodipine | subarachnoid haemorrhage | troponin-t | vinpocetine | oxidative stress | lipid-peroxidation | soluble guanylate-cyclase | inhaled nitric-oxide | bronchopulmonary dysplasia | sildenafil | expression | the natriuretic peptide | cyclic gmp | er stress | skeletal muscle | cell signaling | endoplasmic-reticulum stress | retinitis pigmentosa | human peripheral blood monocytes | retinal neuron-like cells | visual activity | rd1 | cardiolipin | heart failure | mitochondria | myocardial energetics | ventricular function | targeted peptide |

aglepristone | cloprostenol | pregnancy termination | progesterone | corpus-luteum | domestic cat | progesterone | Animals | *C-Reactive Protein | Cattle | *Dinoprost | Female | Povidone-Iodine | Progesterone | Prostaglandin

Animals | Bacterial Load/genetics | Dinoprostone/immunology/metabolism | Disease Models, Animal | H Cell Line, Tumor | Enzyme Inhibitors/*pharmacology | Fatty Acid Synthases/*antagonists & inhibitors | H 13,14-dihydro-15-keto-prostaglandin f2-alpha | enzyme-immunoassay | progesterone | ovulation | estrus | cytological endometritis | buffalo | fertility | proteolytic enzymes | dairy-cows | expression | diagnosis | prev canine | uterus | birth | progesterone | prostaglandin f-2 alpha | maternal plasma | prepartum luteolysis | ur high glucose | synthase activity | superoxide | individuals | endothelium | dysfunction | expression | liver renal-function decline | nitric-oxide | endothelial dysfunction | cardiovascular-disease | l-arginine | hypertensive photobiomodulation therapy | doxorubicin | cardiotoxicity | nitric oxide | microrna | oxidative stress | laser zinc oxide nanoflowers | angiogenesis | hind limb ischemia | peripheral artery disease | laser doppler perfusion endothelial growth-factor | nadph oxidase | therapeutic angiogenesis | cardiovascular-diseases | reactive Animals | Brain | *Brain Ischemia/drug therapy | Ischemia/drug therapy | Lipids | *Melatonin/pharmacology | hydrogen-peroxide | antioxidant | snap | nanostructures | nanomedicine | nanoplatform | generation | delivery | hcaecs | proton pump inhibitors | gene expression | senescence | sasp | proton-pump inhibitors | cellular senescence | periosteal cells | age-related | nitric oxide | ki67 | p53 | qrt-pcr | mathematical modelling | mesenchymal stem cells | aging | endothelial cells | enos | progeria | stress stimulates phosphorylation | blood-vessel model | nitric oxide | Administration, Inhalation | Animals | Disease Models, Animal | Inflammation/drug therapy | Mice | *Nanoarthritis | glucose | diabetes mellitus | metabolic osteoarthritis | oxidative stress | human articular cartilage | type 2 diabetes mellitus | oxidative stress | endothelial dysfunction | chocolate | extra virgin olive oil (evo) | anaphylaxis | tnf-like weak inducer of apoptosis/fibroblast growth factor-inducible molecule 14 axis | vanadium | terbium hydroxide nanorods | angiogenesis | mouse model | wound healing | nonimmunogenic | endothelial cells | europium hydroxide nanorods | hind limb ischemia | inflammatory toxicity | laser doppler perfusion imaging | nitric oxide synthase | nitrotyrosine | obese women | placenta | vascular endothelial growth factor | endothelial dysfunction | high intensity (strenuous) exercise | ubiquinol | oxidative damage | coenzyme q(10) | resistance exercise | Antineoplastic Agents/*toxicity | Antioxidants/*pharmacology | Cisplatin/*toxicity | Cytoprotection | Dose-response | allergy | asthma | diet | mediterranean | pregnancy | antioxidant power | oxidative stress | asthma | consumption | diabetes mellitus | kininase ii | metformin | nitric oxide | prekallikrein | left-ventricular hypertrophy | deletion | vitaminized oil | menopause | nitrosative stress | platelet | membrane fluidity | na+/k+-atpase activity | dermal | Adult | Cell Count | Cell Proliferation | Cell Separation | Cell Shape | Cells, Cultured | *Cellular Senescence |

Amyotrophic Lateral Sclerosis/*immunology/metabolism | Animals | Blotting, Western | CD4-Positive T-Lymphocytes | flow-induced dilation | oxidative stress | platelet | platelet aggregation | smoking | oxidative-stress | arteriosclerosis | chronic granulomatous disease | platelet activation | p47(phox) | nox2 | oxidative stress | chronic granulomatous disease | Autophagy | *Diabetes Mellitus, Type 2/genetics | Endoglin/metabolism | Endothelial Cells/metabolism | cardiovascular disease | heat-not-burn cigarette | modified risk product | sex | smoking | *Acute Kidney Injury/metabolism | Animals | *Leukemia, Myeloid, Acute/metabolism | Lipopolysaccharide | amino acid profile | feed efficiency | metabolizable methionine | n-acetyl-l-methionine | milk protein yield | chronic-fatigue-syndrome | muscle fatigue | t-cells | mechanisms | performance | damage | il-23

acute kidney injury|hyperpolarization|magnetic resonance spectroscopy|mitochondrial dysfunction|interferon regulatory factor|plasma-cells|b-cells|dendritic cells|alpha activity|protects mice|erythen knockout mice|podocyte|proteinuria|soluble epoxide hydrolase|endoplasmic-reticulum stress|renal colony-stimulating factor|alveolar macrophage apoptosis|klebsiella pneumonia|increased mortality|adult stem cells|mesenchymal stem cells|kidney|exosomes|microvesicles|induced pulmonary-hyper western diet|mouse|acute kidney injury|dietary quality|nutrition|high-fat diet|renal ischemia|cell-c bovine respiratory disease|cattle|cytokines|innate immunity|sexual dimorphism|white blood cells matrix metalloproteinase-2|mitochondria|innate immunity|acute kidney injury|chronic kidney disea: astragalus|insulin receptor substrate1|phosphatidylinositol 3 kinase|glucose transporter|db/db mice Animals|Anti-Inflammatory Agents|Blood Platelets/drug effects/immunology/metabolism|CD18 Anti-Chronic kidney disease|BUN|Intravital imaging chronic renal disease|integrin-linked kinase|tubulointerstitial damage|fibrosis|epithelial-to-mesench Animals|Biomarkers/urine|Bipolar Disorder/drug therapy|Diabetes Insipidus, Nephrogenic/blood/*c polycystic kidney-disease|sterile alpha-motif|systems biology|ankyrin repeat|sam domain|bicaudal-d dystroglycan|fukutin|mammalian target of rapamycin (mTOR)|muscular dystrophy|rapamycin|skeletal transglutaminase|kidney|cisplatin|renal failure|cell-death|identification|protects|peptide acute-renal-failure|adhesion molecules|cell apoptosis|severe sepsis|septic shock|mouse models|acid nitrogen mustard|skin topical exposure|systemic toxicity|leucocytes|skh-1 hairless mice|chemical w: astragaloside iv|diabetic nephropathy|sarco/endoplasmic reticulum ca2+-atpase 2|endoplasmic retic danish porcine placenta|leucine|glycine|dipeptide|fatigue|dopamine|exhaustive exercise|oxidative thymic stromal lymphopoietin|sepsis|lipopolysaccharides|macrophages|cisplatin|thymic stromal lyn acute dehydration|body fluid homeostasis|exercise|renal inflammation|sodium reabsorption renal insufficiency|coagulation factors|fibrosis|inflammation|oxidative stress|chronic kidney-disease amino-acid-sequence|guanine phosphoribosyltransferase|metabolic syndrome|altered turnover|allo renal hypouricemia (rhuc)|urate transporter 1 (urat1)|exercise-induced acute kidney injury (eiaki)|hy chitobionic acid|polysorbitol gene transporter|hgf|kidney targeting|uuo|hepatocyte growth-factor|r *Acute Kidney Injury/chemically induced/prevention & control|Animals|Biomarkers|Fibrosis|*Leuko animal model|immune system|immunosenescence|kidney/renal|chemoattractant protein-1 mcp-1| darbepoetin-alpha|blood-viscosity|kidney-disease|epoetin-alpha|erythropoietin|anemia|hif|fibrosis: Animals|Mice|Adenine|Adenosine Monophosphate|Adenosine Triphosphate|*Arteriovenous Fistula ckd|uremia|metabolism|muscle|cardiac|liver|catabolism fermented porcine placenta|lysine|leucine|fatigue|biochemical parameters|treadmill test|amino-ac Arteriovenous fistula|Hand dysfunction|Hemodialysis|Mitochondria|Venous hypertension atrophy|cachexia|mitochondria|renal|uremia|chronic kidney-disease|indoxyl sulfate|uremic toxins| lupus nephritis|heme oxygenase 1|bach1|type i interferons|macrophage polarization|expression|cla renal-function|urea levels|creatinine|hemodialysis|blood|serum|acid nicotinamide|ckd|nad(+)|adenine-induced ckd model|glycolysis|krebs cycle kidney disease|trimethylamine n-oxide|endothelial dysfunction|inflammation|oxidative stress|cardic renal fibrosis|tgf-beta|triptolide|mice|nephropathy|target|model|myofibroblasts|inhibitor|therapy Animals|*Berberine/pharmacology/therapeutic use|*Diabetes Mellitus, Experimental/drug therapy| Animals|Blood Glucose/metabolism|Cachexia/*drug therapy|Carcinoma 256, Walker|Corticosterone *Diabetes Mellitus|Glucose|Glycolysis|Humans|*Macrophages|atherosclerosis|hyperglycemia|mac Animals|Mice|*Macrophages/metabolism|*Phagocytosis|Inflammation/metabolism|Phagocytes/m bone-marrow|hepatocyte differentiation|growth-factor|in-vitro|tissue|matrix|transplantation|angic Animals|Blood Glucose/metabolism|Body Weight|Cytokines/genetics/metabolism|Diabetes Mellitus kidney|landiolol hydrochloride|endothelin|endotoxemia|rat model|acute kidney injury|time-course Animals|Cattle|*Anti-Bacterial Agents/pharmacology|Dysbiosis|*Chlortetracycline/pharmacology|Fe differential expression|wound repair|mechanisms|cadherin-6|cells|model

lipopolysaccharide (lps) | acute kidney injury (aki) | galectin-9 | hypothermia | acute-renal-failure | endotoxemia | acute kidney injury | cisplatin nephrotoxicity | immunomodulation | human umbilical cord-derived mesenchymal stem cells | adenosine | ectonucleotidase | fibroblast | folic acid | macrophage | pericyte | ischemia-reperfusion | ischemic adipose tissue | chop | heat stress | pck1 or pepck | pig | necrosis-factor-alpha | signal-related kinase | acute renal failure | endothelial cells | ischemia-reperfusion | renal physiology | ischemia-reperfusion injury | glomerular mesenchymal stromal cells | extracellular vesicles | ischemia-reperfusion injury | renal regeneration | liver transplantation | citrullinemia type i | stem cells | extracellular vesicles | urea cycle disorders | horizontal | Animals | Blood Urea Nitrogen | Breeding | Cattle | Cell Wall/immunology/*metabolism | Complex Mixture | cattle | glucose | immunosuppression | nonesterified fatty acids | urea nitrogen | vaccination | rectal temperature | uremic toxin | chronic kidney disease | indoxyl sulfate | p-cresyl sulfate | mass spectrometry | chronic kidney disease | factor receptor-ligand | ureteral obstruction | growth | activation | tissue | myofibroblasts | nanoparticles | interferon-gamma | fas ligand | sepsis | acute kidney injury | cecal ligation and puncture | neonates | pigs | mediated apoptosis | acute kidney injury | cisplatin | dapt | notch signaling | glomerular-filtration-rate | ovarian-cancer | molecular weight | blend | rumen-protected aa supplements | corn distillers grains with solubles | dietary protein concentration | proteoglycan | fibrosis | innate immunity | sepsis | heart failure | heparan-sulfate | myocardial-infarction | pharmacology | drug interactions | nanoparticle | liver | kidney | renal | kidney | ischemia | reperfusion | superoxide dismutase | oxidative stress | transcription factor nrf2 | piglets | deoxynivalenol | antioxidant | oxidative stress | composite antimicrobial peptides | blood phagocytosis | glomerular-filtration-rate | skeletal-muscle | respiratory parameters | oxidative stress | protein | model | cytokines | acute kidney injury | thrombosis | inflammation | perfluorocarbon nanoparticles | vessel damage | mapk kinase | albumin | protein-energy restriction | fetal growth restriction | low birth weight delivery | serum albumin | albumin | biomarker | hdl | mercaptalbumin | transthyretin | protein undernutrition | proteomics | plasma | zebrafish | human hepatocellular cancer | liver-regeneration | circulating serotonin | hepatocyte apoptosis | peripheral | Animals | Heart Ventricles/*diagnostic imaging/*physiopathology | Male | Mice | Mice, 129 Strain | Renal | chronic kidney-disease | stage renal-disease | left-ventricular hypertrophy | ii-induced hypertension | health | feedlot health | immune response | metabolic response | respiratory-disease challenge | yeast | acute-phase response | *Adoptive Transfer | Animals | Apoptosis | *Autoimmunity | Biomarkers/blood | Blood Urea Nitrogen | CD11b | astragaloside iv | podocyte apoptosis | diabetic nephropathy | klotho | foxo1 | ppar gamma | activated receptor 2 | factor xa | cardiovascular-disease | endothelial-cells | gene-expression | uremic toxin

biomaterial | cell isolation | cell line | liver function | microarray | three-dimensional culture | mesenchymal stem cell | amniotic fluid stem cell | long-term cell transportation | tissue regeneration | migration | growth | cancer | cell-mediated drug delivery | doxorubicin | glioblastoma | macrophages | nanoparticles | monocytes | mdsc | immunosuppression | tumor microenvironment | nanoparticle | gemcitabine | myeloid suppressor cells | nrf2 | cell viability | hk-2 | serum creatinine | rnas | cell | acetyl-p65 | hk-2 | mir-29 | nrf2 | serum creatinine | induced-diabetic-nephropathy | nf-kappa-b | keap1-nrf2 | Humans | Cisplatin/pharmacology | Sirolimus/pharmacology/therapeutic use | *Fluorocarbons/adverse effects | rapamycin | perfluorocarbon nanoparticle | autophagy | inflammation | pharmacokinetics | biodistribution | mesenchymal stem cell | cell coating | kidney injury molecule-1 | renal artery stenosis | renal-artery stenosis | cetacean | blow | blubber | hormone analysis | validation | progesterone concentrations | steroid-hormone | feedlot cattle | grape pomace | nitrogen utilization | nutrient digestibility | fatty-acid profile | condensed tannins | cattle | glucose | glucose tolerance | insulin | non-esterified fatty acids | omnigen-af | immune-system | corticosterone | bottle-nosed dolphins | atlantic right whales | eubalaena-glacialis | tursiops-truncatus | fecal glucocorticoid

endotoxemia | mods | ecsod | skeletal muscle | free radicals | oxidative stress | endothelial activation | paraoxonase | acute kidney injury | endotoxemia | inflammation | aspirin-triggered resolvin d1 | sepsis | acute-renal-failure | gene-expression | morphogenesis | morphology | yeast | epidemiology | infections | model | cell | pathogen | cell free DNA | uremia | ischemia | nephrectomy | ureteral obstruction | cell-free DNA | urinary mitochondria | *Acute Kidney Injury/chemically induced | Animals | Biomarkers | DNA, Mitochondrial | Humans | Male | PPAR-gamma | antifolate | neurotoxicity | neurocognitive deficits | survivorship | neurocognitive function | central-nervous

c1orf54 | cell proliferation | ischaemia-reperfusion injury | pi3k/akt | ischemia-reperfusion injury | acute-r oxygen species generation | critically-ill patients | toll-like receptors | nadph oxidase 1 | reactive oxygen | c *Acute Kidney Injury/chemically induced/genetics/metabolism/pathology | Animals | Gene Expression | integrin linked kinase | nfatc3 | aquaporin 2 | gsk3 beta | extracellular matrix | nephrogenic diabetes insipidus | cannabidiol | (+)-enantiomers | cannabinoids | cannabinoid 1 receptor | cannabinoid 2 receptor | diabetic Humans | Mice | Animals | *Phosphatidylinositol 3-Kinases/metabolism | Proto-Oncogene Proteins c-akt | angiotensin receptor-neprilysin inhibitor | doxorubicin | heart failure | peroxisome proliferator-activated Animals | Female | Male | Mice | alpha7 Nicotinic Acetylcholine Receptor/metabolism | Creatinine/metabolism | Swine | Mice | Animals | Pericytes/pathology | *Renal Artery Obstruction/pathology | Kidney/pathology | F equid | estrogens | gestation | progestagens | metabolism | mare | progesterone | estrogens | excretion | ster colostrum | immunoglobulin | pig | postpartum | prostaglandin | reproductive-performance | birth-weight | sciurids | hibernation | progestogen metabolites | elisa | pregnancy | hibernation | plasticity | behavior | colo Animals | *Colostrum | Dinoprost | Female | Immunoglobulin G | Lactation | Pregnancy | Stillbirth/veterinar baleen | cortisol | progesterone | reproduction | stress | whales | hair cortisol | steroid-hormones | long-term peripheral plasma | progesterone | placenta | endocrinology | biosynthesis | gonadotropin | implantation steroid analysis | glucocorticoid metabolites | adrenocortical function | plasma progesterone | testosterone prep | tenofovir | lamivudine | microbiome | hiv | dmpa | hiv acquisition | pharmacokinetics | pharmacology blow | cetacean | hormone analysis | technique validation | tursiops-truncatus | reproductive status | fecal Pregnancy | Female | Male | Cattle | Animals | *Progestins | *Animals, Zoo | Glucocorticoids | Steroids | Repr adrenal | conservation physiology | stress-nutrition interplay | thyroid and reproductive hormones assay animal behavior | canis latrans | human-wildlife conflict | reproduction | sterilization | wolf canis-rufus | live hibernation | endothermy | thyroid hormones | gonadal steroids | corticosteroids | circannual rhythms | th tspo | pk11195 | lps | neuroinflammation | cognition | neurosteroid | protein 18 kda | peripheral benzodiaze activity-based training | kidney | polyuria | spinal cord injury | urinary | atrial-natriuretic-peptide | epithelia atrial-natriuretic-peptide | nonsteroidal antiinflammatory drugs | prostaglandin-e synthase-1 | hypertens b-type natriuretic peptide | arsenic exposure | echocardiographic evaluation | children | oxidative stress | hypothalamus | kidney | natriuretic peptides | polyuria | suprachiasmatic nucleus | vasopressin | antidiuret Animals | Antibodies, Antiphospholipid/biosynthesis | Antiphospholipid Syndrome/drug therapy/immun demarcation membrane system | force-velocity relation | proplatelet formation | platelet formation | blo ethanol | pde4 | camp | pka | protein-kinase-a | brain catalase activity | behavioral sensitization | camp-pho: [6]-gingerol | lepr(db/db) mice | type 2 diabetes | glp-1 | rab27a | glut4 | glycogen synthase 1 | rab8 | rab10 | myometrium | oxytocin | oxytocin receptor | preterm birth | tocolysis | inflammatory pathways | preterm l: antifibrotic effect | binding capability | promoter | plasminogen activator inhibitor | adiponectin | tumor-n muc2 | xenograft | pseudomyxoma peritonei | cox-2 | creb | colorectal-cancer | mutational landscape | muc calcium homeostasis | mitochondrial oxidative stress | diaphragm contractile function | s-nitrosylation | d A Kinase Anchor Proteins/*metabolism | Animals | Blotting, Western | Cell Cycle Proteins/*metabolism | medical nutrition therapy | var. cicla extract | skeletal-muscle | glycemic control | in-vivo | b-cells | glucagon mrp4 | migration | cyclic nucleotides | actin | pka | nf-kappa-b | cell-migration | protein-kinase | signaling pat angiotensin | g-protein-coupled receptor | mesangial cells | mice | renin-angiotensin system | mas | inhibiti Acute Lung Injury/chemically induced/drug therapy/*metabolism | Animals | CD11b Antigen/*metaboli akap3 | pka | spermiogenesis | fibrous sheath | sperm proteome | fibrous sheath | anchoring protein | cause fibroblast-growth-factor | modulates fgf-2 expression | neurons in-vivo | parkinsons-disease | substantia-a growth-factor receptor | hepatocellular-carcinoma | cell-proliferation | hepatic steatosis | signal transduc epilepsy | swimming exercise | sodium valproate | seizures | kindling | learning | cognition | physical-exercis milk quality | nematodes | onobrychis viciifolia | performance | polyethylene glycol | condensed tannins | p growth factors | adipose tissue | stem cells | regenerative medicine | skin | mesenchymal stem-cells | rich p antioxidants | apoptosis | normobaric hypoxia | oxidative stress | reoxygenation | nitric-oxide synthase | hy lupine peptides | vegetable hydrolysates | bioactivity | peripheral blood mononuclear cells | cytokines | th wheat gluten protein hydrolysates | bioactive peptides | pro-inflammatory cytokines | oxidative stress | a induced metabolic syndrome | necrosis-factor-alpha | high-sucrose diet | fish-oil | glutathione peroxidase

Animals|Anti-Inflammatory Agents/*pharmacology|Corticosterone/*pharmacology|Male|*Ovum|Pit
mitochondria|neurosteroid|bioenergetics|redox homeostasis|human neuroblastoma-cells|estrogen-
Animals|Immunohistochemistry|In Situ Hybridization|Oxidative Stress|Oxygen/*metabolism|Polyme
antipsychotics|restraint stress|nrf2|antioxidant enzymes|il-10|m2 microglia|microglial activation|sig
Adrenocorticotrophic Hormone/metabolism|Aging|Alkanesulfonic Acids/*toxicity|Animals|Corticoste
Animals|Antioxidants|Apolipoproteins E/genetics|*Atherosclerosis/drug therapy/genetics/preventio
Animals|Antioxidants|Apolipoproteins E/genetics|*Atherosclerosis/drug therapy/genetics/preventio
antioxidant|non-alcoholic steatohepatitis|oxidative stress|fatty liver-disease|manganese superoxide-
estrogen|rvlm|cytokines|endothelin|napdh oxidase|blood pressure|arterial-pressure elevation|oxid
histidine-rich glycoprotein|reactive oxygen species|fenton's reaction|divalent metal ions|sepsis|sepsis
drosophila melanogaster|pink1(b9) mutants|phytotherapeutic preparations|telomere length|aging-asso
schizophrenia|fdg-pet|poly i:c|risperidone|dopamine antagonist|inflammation/oxidonitrosative stre
tanner crab reproduction|early-life history|seawater acidification|agonistic behavior|term exposure|

antioxidant|coffee silverskin|food safety|novel food|nutrition|short-chain fatty acids|chain fatty-acid
ccaat|enhancer-binding protein|peroxisome proliferator-activated receptor-|anti-obesity|boiled tuna
AsA|Helicoverpa armigera|Lepidoptera|Mythimna unipuncta|Noctuidae|antioxidants enzymes|asco
antioxidant|stress|inflammation|borderline personality disorder|cholinergic antiinflammatory system
hypoxia|pfosa|endocrine system|oxidative responses|physiology|biotransformation|climate change
polyi|c model of schizophrenia|fdg-pet|resonance|omega-3 fatty acids|inflammation|oxidative stres
Animals|Anti-Inflammatory Agents/administration & dosage/*pharmacology|Antioxidants/administr

Antioxidative|LAB|DPPH|ABTS

Animals|Bone and Bones|*Chickens|*Egg Shell|Female|Ovum|X-Ray Microtomography|bone quality
Animals|Female|*Animal Feed/analysis|Body Weight|*Chickens|Reproduction|Sexual Maturation|b
bovine|estradiol|follicle|oviduct|estrogen-receptor-alpha|plasma-hormone levels|progesterone-rec
aldabra giant tortoise|aldabrachelys gigantea|reproduction|seasonality|steroid hormone|geochelon
ovarian granulosa cells|cell reprogramming|cell dedifferentiation|the hippo pathway|yap1 oncogene
hippo pathway|yes-associated protein 1|steroidogenesis|fertility|epidermal-growth-factor|hippo sig
corpus luteum|first follicular wave dominant follicle|human chorionic gonadotropin (hcg)|ovarian dy
Female|Rats|Animals|*Transcription Factors/genetics/metabolism|*YAP-Signaling Proteins|Granulos
hormones|ovulatory cycle|evolutionary psychology|close relationships|sexuality|menstrual-cycle|se
Pregnancy|Animals|Humans|Female|Male|Estradiol/metabolism|*Lemur|Fathers|*Lemuridae/met
reproduction|photorefractoriness|sexual maturity|egg-production|reproductive-performance|horm
copulatory ties|estradiol|exhibit status|glucocorticoids|progesterone|adrenocortical activity|gluoc

ahcc|tamoxifen|letrozole|breast cancer|drug interactions|catechol-o-methyltransferase|aromatase-
gibbon|nomascus|maturation|ontogenetic change|reproductive hormones|sexual dichromatism
Helminths|Taenia crassiceps|cysticercosis|cytokines|immunity|infection|neuroimmunoendocrinolog

endocrinology|fecal hormones|estrus cycle|non-invasive sampling methods|captive breeding|repro
ageing|breast cancer|biomarker|geriatric evaluation|oncogeriatrics|side effect|androgen|estrogens
sex identification|body size|secondary sex characteristics|ultrasound|urinary hormone analysis|dusk
plasma-concentrations|serum ceruloplasmin|physical-activity|hormone|creatinine|pregnancy|pgfm
Aggression|Animals|Color|*Lizards/physiology|Male|Pigmentation/physiology|Testosterone/pharm;

androgens|reproductive ecology|seasonality|testosterone|ungulates|individual variation|plasma tes

colouration|prenuptial moult|individual quality|ecophysiology|ornithology|information-content|sex

autism spectrum disorders|neuroligin|parvalbumin interneurons|social behavior|parvalbumin intern
corticosterone|testosterone|feed composition|error|bias|elephants loxodonta-africana|california sp
development|immunohistochemistry|leydig cell|microminipig|minipig|steroidogenic enzyme|testic
phytoestrogens|endocrine disruptor|dimorphism|obesity|kisspeptin|pomc|orexin|mammary-gland
Eublepharis macularius|Pmsg|leopard gecko|pregnant mare serum gonadotropin|semen|testicle|te:
androgen-deprivation therapy|prostate-cancer|testosterone|disease|risk|estradiol

Animals|Humans|Male|Mice|Alpha-Ketoglutarate-Dependent Dioxygenase FTO/genetics/metabolism
caretta caretta|chelonia mydas|deslorelin|reproductive hormone|validation|caretta-caretta|cheloni:
urbanisation|corticosterone|testosterone|reptile|courtship|competition|tree lizards|behavioral-resj
Age Factors|Alaska|Animals|Biomarkers/*metabolism|California|Female|Lactation/metabolism|Ma
testosterone|progesterone|corticosterone|thyroid hormone|hibernation|non-invasive|corticosteror

Animals|Circadian Rhythm|Female|Male|Rats|Rats, Wistar|Reproduction|*Sex Characteristics|*Ultr
Male|Female|Animals|Seasons|*Neuroendocrinology|*Sciuridae/physiology|Reproduction/physiolc
Animals|*Hibernation/physiology|Iodide Peroxidase|Sciuridae/physiology|Thyroid Hormones|Thyrol
echidna|hormone|validation|keratinized tissues|noninvasive|stress|reproduction|short-beaked echi
Androgens|Conservation|Glucocorticoids|Temporal gland secretion|Thyroid hormones|Urine dribbli
fungiforme papillae|saliva|taste disorders|taste|signal-detection measures|chorda tympani|gene po
gallium nitride|pseudomonas aeruginosa|uv light|x-ray photoelectron spectroscopy|kelvin probe for

explosive blast|neurodegeneration|muller|inflammation|retina|confocal|catalase|traumatic brain-ir
overhauser-enhanced mri|electron-paramagnetic-resonance|liver fibrosis|oxidative stress|murine tu
cluster analysis|obesity|diet|anthropometry|inflammation|oxidative stress|cardiovascular disease|l
colostrum composition|hydroxytyrosol|milk composition|sow's lactation|vitamin E

Animals|Antineoplastic Agents, Phytogetic/*pharmacology|Apoptosis|Cell Cycle|Cell Line, Tumor|Ce
Humans|Female|Monocytes/pathology|*Lung Neoplasms/pathology|Obesity/metabolism|Myeloid
sodium thiosulfate|doxorubicin|cardiomyopathy|oxidative stress|apoptosis|hydrogen-sulfide|induce
radon|diabetic nephropathy|reactive oxygen species|oxidative stress|antioxidant|gamma-irradiation
Animals|Catalase/administration & dosage|Chickens|Delayed-Action Preparations/*chemistry|Drug l
activated protein-kinase|factor-kappa-b|oxidative stress|insulin-resistance|glutathione-peroxidase|s
Mdrab|Tgc|capsule|catalase|human neutrophils|multidrug-resistant Acinetobacter baumannii|tigec
tench|stress|carbon monoxide|rigor mortis|cortisol|lipid oxidation|trout oncorhynchus-mykiss|salm
helicteres angustifolia l.|polysaccharide|immunomodulatory activity|4t1 tumor-bearing mice|breast-
organic germanium|ge-132|antioxidants|inflammation|compound|activation|expression|dioxide
oxidative stress|cholangiocarcinoma|resistant-cells|epigenetics|anti-oxidants|DNA-damage|establisl

fresh-water crab|histopathological changes|tio2 nanoparticles|subacute exposure|immune-response

colony-enhancing factor|oxidative stress|protein|nad|hepatotoxicity|metabolism|failure|mitochonc
n-3 bioavailability|alpha-linolenic acid bioconversion|oxidative stress|dha|polyunsaturated fatty-acid
multivitamin|multimineral|dietary supplements|vitamin status|clinical research|folic-acid suppleme
breast-cancer metastasis|high-fat diet|adipose-tissue|extracellular traps|insulin sensitivity|targeted
basal ganglia|functional connectivity|hepatitis c virus|il-6|inflammation|insula|depression|perceive
atrial fibrillation|cardiovascular disease|cardiovascular events|catalase|glutathione|nox|risk factor|s
sesamia-nonagrioides lepidoptera|antioxidant enzymes|susceptibility|protein|maize|glutathione|ex
micronutrients|preeclampsia|hypertension|pregnancy|antioxidants|oxidative stress|free radicals|gl

titanium dioxide nanoparticles | co-culture | uptake mechanisms | reactive oxygen species | cytokines | ce
nitronate monooxygenase | nitroalkane oxidase | flavoenzyme | nitroalkane | pseudomonas aeruginosa |
elm (ulmus pumila l.) seed | ageing | mitochondria | ros | vdac | protein carbonylation | 2-dimensional gel-
controlled drug-delivery | physical-properties | flow | catalase | immobilization | microspheres | wettability
seed germination | ros | stratification | carbonylation | aba | ga | hedysarum scoparium | abscisic-acid | prote
peroxisome proliferator-activated receptor gamma | transportin | nuclear translocation | superoxide disr
barley stripe mosaic virus | drought | functional characterization | gene overexpression | plant transform
toll-like receptor-4 | gut microbiota | endotoxemia | gp91(phox) | obesity | disease
oxidative stress | professional football | exercise | antioxidant | supplementation | injuries | oxygen
cluster analysis | electronic cigarette | electronic vaping cigarette | heat-not-burn cigarette | modified risk
acute respiratory failure | oxidative stress | nadph-oxidase | non-invasive ventilation | obstructive pulmor
central nervous system | coculture | cytokines | reactive oxygen and nitrogen species | silver nanoparticle
autophagy | endothelial dysfunction | oxidative stress | thoracic aortic aneurysm | dysfunction | cells | nox2
Acute kidney injury | Endothelin | Endothelin converting enzyme | Hydrogen peroxide | Mechanical stretc
Acute kidney injury | Endothelin | Endothelin converting enzyme | Hydrogen peroxide | Mechanical stretc
hydrogen peroxide | h2o2 | sepsis | shock | burn injury | tbsa | mortality | aki | hypermetabolism | endothelia

photocatalysts | tio2 | bactericidal effect | peptidoglycan | growth phase | spheroplast | escherichia-coli | tic
focal segmental glomerulosclerosis | fas ligand transcription | angiotensin-ii | up-regulation | diabetic-nep
atrial fibrillation | aging | autophagy | cardiovascular disease | oxidative stress | oxidative stress | cardiovas
antioxidants | life history | oxidative damage | parental care | thiols | vertebrates | trade-off | cost | damage |
infant urine collection | filter paper | cotton | e1g
menopause transition | perimenopause | perimenopausal depression | depressive symptoms | mindfulne
*Depression/epidemiology | Estradiol | Female | Humans | Menopause | Middle Aged | Sleep Quality | *Tes

Androgens | Animals | Dehydroepiandrosterone | Estrogens | Female | Fertility | Male | Plant Breeding | Preg
reproductive hormones | estrogen | estradiol | progesterone | estrone-3-glucuronide (e1g) | pregnanediol

etonogestrel implant | breakthrough bleeding | contraception | tamoxifen | estrogen-receptor-alpha | con
contraception | fertility | gender affirmation | sexual and reproductive health | transgender | transgender |
nutrition | women | team sports | training | recovery | protein synthesis | amino-acid oxidation | menstrual-
dispersal | ovulatory cycling | owl monkey | reproductive suppression | sexual maturity | social monogamy
saliva | urine | gilt | boar effect | nuclear magnetic resonance spectroscopy | dominant follicle | boar | fsh | If
anion-transporting polypeptides | ovarian suppression | dependent growth | mcf-7 cells | expression | tar
steroidome | saliva | puberty | porcine | male effect | gc-ms/ms | ovarian follicular development | gas-chron

nox2 | oxidative stress | glycaemia | oleuropein | oxidative stress | mediterranean diets | diabetes-mellitus |
positron-emission-tomography | brain metabolism | messenger-rna | in-vivo | fdg-pet | expression | preser
leucine | mtor | akt | resistance training | hypertrophy | muscle protein-synthesis | human skeletal-muscle |
disinfection | nasal immunity | mucosal immunity | oxidative stress | ras | messenger-rna expression | salar
vitrification | slow freezing | gene expression | offspring health | mouse model | cryopreservation | outcom
Animals | Cotyledon | Eating | Female | *Festuca/chemistry | Fetal Development/genetics | Humans | *Myc
xylooligosaccharides | red alga | palmaria sp. | xylan | hemicellulase | cell-wall | xylanase | hydrolysis | beta-1
von-willebrand-factor | intima-media thickness | thrombotic thrombocytopenic purpura | endothelial fu
Cattle | Animals | *Vitamin E/pharmacology | *alpha-Tocopherol/pharmacology | Fatty Acids, Nonesterifi
Artemisia annua/*chemistry | Cell Line | Diabetes Complications/metabolism/*prevention & control | *C
bpf | cardiomyopathy | irradiation | leiurus quinquestratus | raas | renin-angiotensin system | egyptian sco
3-Hydroxybutyric Acid/blood | Aged | Anthocyanins/*administration & dosage/blood | Antioxidants/*ad

carcass characteristics

Cattle|Animals|*Dietary Supplements|*Diet/veterinary|Antioxidants|Saccharomyces cerevisiae|Ferr
oxygen free radicals|endothelial function|nitric oxide|double product|ageing|cardiovascular prevent
saliva|plasma|protein carbonylation|free radicals|oxidative stress|aging|oxidative stress|antioxidant

kimchi|free sugar|organic acid|free amino acid|volatile compound|microbial community|antioxidan
antioxidant activity|alkaline phosphatase activity|bioaccessibility|calcium|moringa oleifera leaf hydro
broiler|dl-hmtba|dl-met|l-met|oxidative status|growth-performance|sulfoxide reductase|glutathior
nf-kappa-b|matrix metalloproteinases|tumor microenvironment|antioxidant enzymes|cell-proliferati
3d printing|microneedles|inkjet coating|insulin|mu ct|protein secondary structure|transdermal deli
microelectromechanical systems|3d printing|microneedles|optical coherence tomography|in vivo
beta hydroxybutyrate|buffaloes|free fatty acids (ffa)|leptin|negative energy balance (neb)|growth-fa
Female|Cattle|Animals|*Glucocorticoids/pharmacology/metabolism|*Hydrocortisone|Lactation/phy
zein|insulin|nanoparticles|mucus-permeating|poly(ethylene glycol)|oral delivery|drug-delivery|in-vi

allocare|development|socioendocrinology|maternal behavior|female house mice|maternal-behavior
Humans|Hydrocortisone|Male|Oxytocin|*Singing|Testosterone|Testosterone Congeners|*Voice|You
extraction-liquid chromatography|high-efficiency|vasopressin|bioanalysis|behavior

fatherhood|neuroimaging|oxytocin|parental attunement|theory of mind

oxytocin|plasma|extraction|acetonitrile protein precipitation|cd38|rage|binding protein|protein pre
Altruism|Emotions|*Empathy|Humans|*Intimate Partner Violence/psychology|Oxytocin|Empathy a
ovarian neoplasms|oxytocin|tumor microenvironment|interleukin-6|ascites|brain oxytocin|carcinon
social defeat|oxytocin|cocaine|conditioned place preference|il-6|social environment|drug-use|beha
oxytocin|immunoassay|elisa|extraction|sample matrix|knockout|peripheral oxytocin|brain|vasopre
oxytocin|solid-phase extraction|elisa|urine|matrix interference|knockout mice|peripheral oxytocin|
affiliation|human-animal relationship|stress reduction|zoo animal welfare|stress responses|urinary c
Animals|Male|Animals, Zoo/physiology|*Gorilla gorilla/physiology|*Hydrocortisone/urine|North Ar
alcohol dependence|alcohol use disorder|alcoholic beverages|alcoholism|ethanol|oxytocin|patient
oxytocin|pig|saliva|stress|welfare|parturition|validation|plasma

postpartum|physical contact|touch|oxytocin|fathers|behavior|engagement|pregnancy|mothers
domestic dogs|oxytocin|affiliation|social behaviour|behavioural synchrony|shared attention|canis-fa
intranasal oxytocin|emotional contagion|amygdala|empathy|brain|pain|vasopressin|recognition|sy
oxytocin|depression|anxiety|prenatal|perinatal|extraction|postpartum depression|peripheral oxytc
fathers|hippocampus|oxytocin|parental brain|testosterone

common nbsp;raven|corvus corax|corvids|saliva|oral swab|enzyme immunoassay|nonapeptide|m
Animals|Female|Humans|Pregnancy|Bile Acids and Salts|*Fibroblast Growth Factors/metabolism|G
Canine behavior|Canine physiology

behavioral-responses|attachment behavior|cortisol|wolf|shelter|plasma

oxytocin|glucocorticoids|cortisol|wolf|dog|domestication|urinary|creatinine|specific gravity|gaze p
Administration, Intranasal|Animals|Dogs/*urine|Female|Humans|*Immunoenzyme Techniques|Mal
map1lc3b|lc3b|autophagy receptor|cgas|micronuclei|micronucleophagy|cyclic gmp-amp|DNA sens
endocrine-disrupting chemicals|developmental exposure|oxytocin|flame retardants|polybrominatec
hypoxia|persistent pulmonary hypertension of the newborn|vasopressin|rescue therapy|blood-pres
oxytocin|vasopressin|social anxiety|stress|endogenous|trier social stress test|psychological stress|p
signal transduction|a-kinase anchoring protein|kidney physiology|protein-kinase-a|nephrogenic diab
breastfeeding|breastfeeding difficulties|hormones|lactogenesis|maternal physiology|intravenous ox
*Anesthetics, Inhalation/pharmacology|Animals|Arginine Vasopressin/pharmacology|Blood Pressure
dim light at night|gene expression|hormones|liver|metabolism|zebra finch|messenger-rna expressic
bird|bunting|gene expression|photoperiod|neurosteroid|thyroid hormone|inactivating enzyme geni
Mice|Animals|*Ferroptosis|Reactive Oxygen Species|*Rhinitis, Allergic/drug therapy|*Iodine/pharm

food|gene expression|hypothalamus|liver|metabolism|testes|reproduction|zebra finch|gene-expre
galeocerdo cuvier|urban ecology|marine predator|fatty acids|corticosteroids|thyroid hormones|nut
rabbit articular chondrocytes|receptor-type-ii|nitric-oxide|tgf-beta|cartilage degeneration|gene-expr
nonsteroidal antiinflammatory drugs|creb-dependent pathway|heme oxygenase-1|protein-kinase|ca
depletion|antibodies|cytokines|beads|autocrine|ascites|plasmacytoid dendritic cells|streptococcal
necrosis-factor-alpha|regulatory t-cells|indoleamine 2,3-dioxygenase|growth-factor|cancer|il-10|ma
blood pressure|exercise pressor reflex|muscle afferents|exercise pressor reflex|iv muscle afferents|c

cyclooxygenase-2|quercetin|unilateral ureteral obstruction|renal medullary interstitial cells|heat sho
osteoarthritis|hyaluronic acid|polynucleotides|pain|knee function|cartilage degradation|polydeoxyr
me/cfs|diagnostic|il-8|pge2|scd14|cd57|chronic fatigue|chronic-fatigue-syndrome|risk-factors|nk c
the-counter medications|global DNA methylation|anti-millerian hormone|paracetamol acetaminophe
tricyclic pyrazoles|synthesis|cannabinoid receptors|cb2 antagonism|molecular modelling|cannabino
inflammation|mitochondria|peroxidation|polyphenol|sodium-induced colitis|green tea polyphenols
formononetin|neuroinflanunation|nf-kappa b|er beta|nf-kappa-b|human breast-cancer|trifolium-pr
aerobic exercise|cyclooxygenase|low-dose aspirin|prostaglandin e-2|skeletal muscle|nonsteroidal ar
heme oxygenase-1|antioxidant|xanthones|inhibitor|extracts|pericarp|agents|plants|shp-1

rca1|cox-2|vascular function and stiffness|endothelial growth-factor|activated t-cells|induced cox-2
rat model|inflammatory hyperalgesia|central sensitization|vaginal hyperalgesia|prostaglandin e-2|pc
equine nutrition|microbiota|hindgut|faeces|diet|yeast|microalgae|saccharomyces-cerevisiae suppli
d-dt|mif|spinal cord|astrocyte|inflammation|pge(2)|injury|central nervous system|cox2|cd74|migr
denatonium benzoate|anti-inflammatory|anti-hyperalgesic|prostaglandin e2|central-nervous-system
nonsteroidal antiinflammatory drugs|cellular senescence|cancer genomics|rat colon|cox-2|overexpr
exercise|oxidative stress|inflammation|nutraceutical|muscle enzymes|synovial fluid|melon superoxi
eye drop|cyclodextrin|nepafenac|het-cam|ex vivo permeation studies|ocular inflammation|drug-de
exercise|horse|inflammation|oxidative stress|physiology|dietary nitrate supplementation|synovial-fl
4-methoxycinnamyl p-coumarate|nitric oxide|prostaglandins e-2|cytokines|anti-inflammatory activit
Animals|Cyclooxygenase Inhibitors/pharmacology|Dinoprost/*pharmacology|Dinoprostone/*pharm
interleukin-1 type 1 receptor|lipopolysaccharide|fever|anorexia|acth|corticosterone|endothelial cel
autism|inflammation|immune dysfunction|intestinal dysfunctions|biomedical evaluation|children
Animals|*Atherosclerosis/genetics|Bacteria|Bacteroidetes|Diet, High-Fat/adverse effects|*Gastroint
alzheimer's disease|multitarget drugs|cannabinoid analogues|acetylcholinesterase|molecular model
cyclooxygenase|low-dose aspirin|prostaglandin e-2|resistance exercise|skeletal muscle|nonsteroidal
intervertebral disc|degeneration|herniation|repair/regeneration|mechanical loading|inflammation|c
Amino Acids|Animals|*Edible Insects|Fatty Acids|Insect Proteins/chemistry|Lipid Metabolism|Lipids
Cell Line|Culture Media, Conditioned/pharmacology|Cyclooxygenase 2/metabolism|Interleukin-6/mc
artemether|neuroinflammation|bv2 microglia|ht22 hippocampal neurons|nf-kappa b|nrf2|nf-kappa
activated macrophages|citrate pathway|essential oil|hydrolate|immunometabolism|inflammatory n

verbascoside|tak-1|shp-1|inos|cox 2|nitric-oxide synthase|activated protein-kinases|ii type-2 recept
inflammation|cytokines|human|stem cell|bone marrow|in-vitro|matrix metalloproteinases|regener
activated protein-kinase|cytosolic phospholipase a(2)|factor-kappa-b|specificity sequence|signaling|
tyrosine phosphatase|step|cerebral ischemia|inflammation|p38 map kinase|cyclooxygenase-2|prosti
aspirin|skeletal muscle|inflammation|prostaglandin e-2|cyclooxy-genase|resolving lipid mediators|a
p-glycoprotein expression|temporal-lobe epilepsy|induced up-regulation|blood-brain-barrier|antiepi
arachidonic acid|carbamazepine|epilepsy|phenytoin|prostaglandin e-2 (pge(2))|valproate|induced u
mesenchymal stromal cell|scleroderma|extracellular vesicles|exosomes|microvesicles|therapy|ster

annulus fibrosus | organ culture | inflammation | mechanical loading | disc herniation | intervertebral disc neuroinflammation | microglia | diarylheptanoids | anti-neuroinflammatory activity | nf-kappa b | atp citra Citric Acid/*metabolism | Humans | Hydroxybenzoates/pharmacology/*therapeutic use | Macrophages/ resolution mass-spectrometry | essential oil | structural-characterization | antibacterial activity | antimic andrographis paniculata | andrographolide | h(+)/k(+)/atpase | inflammation | mucin | myeloperoxidase | prc

chemokines | COX-2 | cytokines | mPGES-1 | neuroinflammation | PGE2

astrocytes | cox2 | hmgb1 | inflammation | spinal cord injury

trans-4-methoxycinnamaldehyde | nitric oxide | pge(2) | inos | cox-2 | carrageenan | factor c-jun | edema | tr nanoparticles | inflammation | intervertebral disc | organ culture | diclofenac | low-back-pain | poly(gamma-hydroxycitrate) | liposomes | macrophages | inflammation | antioxidant | mitochondrial citrate carrier | mac thymoquinone | ampk alpha | ros | sirt1 | neuroinflammation | nf-kappa-b | signaling pathway | in-vivo | oxmic microglia | neuroinflammation | prion diseases | nitric oxide | pge(2) | non-steroidal antiinflammatory drug Animals | Cattle | Female | Humans | Interleukin-6/metabolism | Cell Survival | Vibration | Organ Culture Tec killer t-cells | dendritic cells | receptor expression | nkt cells | innate | activation | ligation | immunity | cd1d Animals | Mice | Dinoprostone | Disease Models, Animal | *Encephalitis/genetics/metabolism/preventior creb | epilepsy | epileptogenesis | neurotrophin | seizure | status epilepticus | kainate-induced seizures | sta bovine corpus-luteum | iberian lynx | life-span | steroidogenic capacity | progesterone secretion | feline er itb | thyroid hormone | cardiovascular function | radioactive iodine | radiation | exposure | risk | hyperthyro maternal protein restriction | salt sensitivity | DNA methylation | epithelial na+ channel | cardiovascular-c sex | season | glucocorticoids | aldosterone | feces | serum | dolphins tursiops-truncatus | glucocorticoid coi allostatic load index | chronic stress | stressors | non-human primates | lemur catta | gorilla-gorilla-gorilla | biomarker | DHEA | mortality | primate | stress

electron transport chain | mito-targeted antioxidants | oxidative stress | red coloration | sexual selection | body condition | channel islands | fecal hormones | nutrition | parasites | reproduction | seasonal changes | animal welfare | conservation | endocrine marker | loxodonta africana | non-invasive hormone monitorin Animals | Ethinyl Estradiol/metabolism | *Oryzias/metabolism | RNA, Messenger/metabolism | Thyroid H intrauterine device | levonorgestrel | postpartum contraception | human milk | breastfeeding | creatinoc choice

Female | Humans | Chromatography, Liquid | Pilot Projects | *Tandem Mass Spectrometry | *Levonorgestr Humans | Osteopontin | *Stevens-Johnson Syndrome/diagnosis/etiology | *Drug Hypersensitivity Syndrc Antioxidants | Copper | *Curcumin | Dietary Supplements | Humans | Reactive Oxygen Species | *Sirtuin 3 | oxidative stress | lipid peroxidation | covid-19 | intubation | mortality | respiratory syncytial virus | airway e sodium arsenite | parus major | antioxidants | cat | gpx | telomere length | lead-exposure | free-radicals | dar Nafld | biomarkers | lipid peroxidation | oxidative stress | steatosis

low molecular weight heparin | myeloperoxidase | prostate cancer | rivaroxaban | thrombosis | neutrophil 3 alpha,5 alpha-thp | crf | hpa axis | extrahypothalamic crf | sex differences

schizophrenia | first-episode antipsychotic-naive | neurosteroids | pregnenolone | progesterone | allopreg environmental stress | corticosterone | allopregnanolone | predator odor | foot shock | tail pinch | pituitary allopregnanolone | type i 5 alpha-reductase inhibitor | sociability deficit | restricted repetitive behavior | gaba(a) receptors | neuroactive steroids | itch | neurosteroids | pruritus | ethanol | mice | subtypes | progest allopregnanolone | gaba | glutamate | ketamine | maternal separation with early weaning | postpartum de multiple sclerosis | experimental autoimmune encephalomyelitis | xbd173 | tspo | neurodegeneration | ne dentate gyrus | 18 kda translocator protein | allopregnanolone | anxiety and depression | tail suspension postpartum depression | translocator protein (18 kda) | yl-ipa08 | neurosteroid | antidepressant-like | pote tspo | depression | allopregnanolone | dendritic complexity | fast-onset antidepressant | 18 kda | mammali pregnancy | postpartum | allopregnanolone | hormones | depression | anxiety | serum allopregnanolone | p hypoxic ventilatory response | gaba-a receptor | brain-stem | carotid-body | apnea frequency | intermitter koumine | anxiety | translocator protein 18 kda | neurosteroid | hypothalamic-pituitary-adrenal axis | gels tspo | 5-ht | allopregnanolone | anxiety | protein 18 kda | antidepressant-like | anxiety disorders | potent lig

tspo | etifoxine | lps | neuroinflammation | neurosteroid | protein 18 kda | gaba(a) receptors | neuroinflamn
tspo | lps | neuroinflammation | cognition | allopregnanolone | finasteride | positron-emission-tomography
major depressive disorder | neurosteroid | chronic unpredictable stress | neuroplasticity | translocator pr

aging | alzheimer's disease | inflammation | steroid hormones | enzyme regulation | progesterone | neuros
Animals | Brain-Derived Neurotrophic Factor/physiology | Cerebral Cortex/*physiology | GABA-A Recept
bone metabolic diseases | hiv | calcaneal ultrasound | tubular impairment | resource-limited setting | bon
bariatric | gastric bypass | nutritional status | vitamins | minerals | dietary fiber supplementation | copper s
Animals | Child | Drinking Water/*analysis | Female | Humans | Kidney/drug effects/*physiology | Male | Ra
alpha-carotene | beta-carotene | plant carotenoids | pyridoxal-5 '-phosphate | retinol | retinol isotope dilu
Acute Kidney Injury/*diagnosis/urine | Adult | Biomarkers/*urine | Case-Control Studies | Female | Follow
dheas | epiandrosterone | estradiol | estrone | glycemia | homa index | inhibin b | insulinemia | testosterone
sulfide | nitric oxide | nitroxyl | redox | gasotransmitter | nitrosohydroxylamine-n-sulfonate | nitric-oxide dc

alzheimer's disease | cgmp | phosphodiesterase 5 inhibitors | tau | vardenafil | cyclic adenosine-monopho
chlamydomonas reinhardtii | volvox carteri | two-component system | chlamyopsin | optogenetics | volvo:
Animals | *Caenorhabditis elegans/metabolism | *Caenorhabditis elegans Proteins/metabolism | Calciur
anopheles | malaria | abscisic acid | aba | lifespan | fecundity | development | yellow-fever mosquito | progr
Animals | Codon, Terminator | *Drosophila/genetics/metabolism | Drosophila Proteins/genetics/metab
cyclic gmp-amp | interferon response | catalytic subunit | protein | bioconductor | inflammation | recogniti
Humans | Mice | Animals | *Immune Checkpoint Inhibitors/pharmacology/therapeutic use | B7-H1 Antige
Humans | *Nucleotidyltransferases/metabolism | Immunity, Innate | *Neoplasms/genetics | DNA/metab
DNA Replication | *DNA, Single-Stranded | Genomic Instability | Humans | Immunity, Innate | Nucleotidylt
Mice | Animals | *Gasdermins | Membrane Proteins/metabolism | Signal Transduction | Nucleotidyltransfe
Animals | Female | Immunity | Interferon Regulatory Factor-3/metabolism | Interferon Type I/*immunolo
Humans | High-Throughput Screening Assays | *Triazines | *Alanine/analogues & derivatives | *Nucleotidylt
CP: Immunology | CP: Molecular biology | DNA binding | Otud3 | TurboID | cGAS | cytosolic DNA complex | c
Adenosine Triphosphate | Animals | DNA/metabolism | Humans | Interferons/metabolism | *Membrane T
DNA-damage | r-loops | transcription | recognition | regulators | mechanism | autophagy | pathway

gmp-amp synthase | immune DNA sensor | c-di-gmp | inorganic-phosphate | interferon response | cgas | 2i
Animals | Mice | DNA/metabolism | *Immunity, Innate | *Inflammatory Bowel Diseases/drug therapy | *N
garlic derived exosome-like nanoparticles | phosphatidic acid | microglial cells | basp1 | c-myc | ido1 | ahr | s
Adult | Animals | Base Sequence | Cells, Cultured | DNA | Humans | Mice | Nucleotidyltransferases/*antago
cyclic gmp-amp | sensor cgas | DNA sensor | synthase | inflammation | recognition | senescence | reveals | c
cyclic gmp-amp | cytosolic DNA sensor | poly(adp-ribose) polymerase | protein-kinase | structural basis | ii
Animals | Humans | *Pseudomonas aeruginosa/metabolism | Interleukin-1beta/metabolism | *Proto-On
cyclic gmp-amp | double-stranded DNA | exonuclease trex1 | structural basis | 2nd-messenger | synthase |
Animals; *Bacteria/immunology/virology; *Bacteriophages/physiology; Immunity; Nucleotidyltransfe
*Nucleotidyltransferases/metabolism | *Immunity, Innate | DNA/chemistry
Animals | Female | Male | Mice | Agouti-Related Protein/genetics | Body Weight | Fatty Acids/metabolism |
group box-1 protein | clinical characteristics | endothelial injury | kidney injury | inflammation | dysfunctio
Antioxidant | Chromium toxicity | Herbal medicine | Pro-inflammatory cytokines
Animals | Rats | *Crataegus/chemistry | Diabetes Mellitus, Experimental/pathology | *Diabetic Nephropa

glucose-transport activity | renin-angiotensin system | capillary density | promotes obesity | visceral fat | v
Animals | *Diabetes Mellitus, Experimental/complications/drug therapy/pathology | *Diabetic Nephro
chronic kidney disease | hypertension | hypertrophy | oxidative stress | extracellular sod | extracellular-su
creg1 | cellular senescence | renal dysfunction | brown adipocyte | age-related obesity
contrast media | acute kidney injury | resveratrol | oxidative stress | apoptosis | sirt1 | acute kidney injury |:

prx3 deficiency|oxidative stress|macrophage activation|ckd|renal fibrosis|oxidative stress|tubulointerstitial smooth-muscle-cells|arrest-specific gene-6|phosphate-induced calcification|arterial medial calcification|Adaptor Proteins, Signal Transducing|Animals|Carrier Proteins/genetics/physiology|Cell Differentiation|regulatory t-cells|tubular epithelial-cells|innate immune-response|acute-renal-failure|dendritic cells|renal interstitial fibrosis|small-molecule inhibitor|obstructive nephropathy|ureteral obstruction|deficient prostaglandin e-2|15-pgdh inhibitor|contrast media|acute kidney injury|prostaglandin e-2|induced renal glomerular hyperfiltration|diabetes-mellitus|obese-patients|insulin|cells|hyperglycemia|accumulation|Animals|Humans|Kidney/pathology|*Mesenchymal Stem Cells/metabolism|Mice|Obesity/metabolism|Animals|Rats|Diet|Glycogen Synthase Kinase 3 beta/metabolism|Kidney Glomerulus/pathology|*Low-dose Ischemic acute kidney injury|chronic kidney disease|ischemia-reperfusion injury|recovery|repair|AMP-Activated Protein Kinases|Animals|Antioxidants/*metabolism|Blood Glucose|Body Weight|*Body weight animal model|higa mouse|higa nephropathy|proteomics|animal-model|ddy mice|system|identification|Cellular Senescence/genetics/*physiology|Endothelial Cells/*drug effects/*metabolism|Forkhead Box O|endothelin-1|endothelin receptors|kidney fibrosis|unilateral ureter occlusion|adenine-induced nephropathy|8,11,14-Eicosatrienoic Acid/*analogs & derivatives/analysis/metabolism|Animals|Asthma/*drug therapy|acute chest syndrome|heme|crisis

artemisininate|microglia|pge(2)|cox-2|mpges-1|nf-kappa b|p38 mapk|nf-kappa-b|antimalarial agent|Animals|Cell Line|Cell Separation|Cells, Cultured|*Cord Blood Stem Cell Transplantation|Cytokines|Aged|Aged, 80 and over|Case-Control Studies|Complement Factor H/genetics|Female|*Genetic Precipitation|filtration-rate|transcutaneous measurement|fitc-sinistrin|renal-function|cyanine dyes|living mice|transcutaneous acute kidney injury|chronic kidney disease|intravital multiphoton microscopy|oxidative stress|metabolic syndrome|coronary artery stenosis|renovascular hypertension|renal fibrosis|renal-function|revascularization|iron|carbon-monoxide|heme oxygenase-1|tyrosine kinase|renal fibrosis|cell-death|activation|apoptosis|acute kidney injury|carbon monoxide|cellular stress|oxidative stress|endoplasmic-reticulum stress|heme|Animals|Humans|Mice|*Acute Kidney Injury/genetics/metabolism|*Connective Tissue Growth Factor|brain-damage|potential mechanisms|neuroprotection|immature|outcomes|injury|hypothermia|actin|protein-kinase n1|cell-adhesion|small gtpase|neurotransmitter release|eukaryotic chemotaxis|membrane|toxicity|chemotherapy|identification|metabolism|cancer|injury

regulatory t-cells|septic shock|improves survival|pd-1|mortality|apoptosis|outcomes|burden|mesenchymal stem cells|extracellular vesicles|renal artery stenosis|stem-cells|microvesicles|protect|brain tumour|cell death|late effects|neuroinflammation|radiotherapy|long-term|cranial irradiation|dynamin-related protein-1|electron-transport chain|mesenchymal stem-cells|mitochondrial fission|cellular|kidney|microvascular injury|senescence|cellular senescence|secretory phenotype|stem-cells|progression|albuminuria|endothelial cells|permeability|transcription factors|transgenic mice

Acute exercise|chronic kidney disease|continuous moderate-intensity exercise|high-intensity interval|*Acute Kidney Injury/pathology|Adenine/metabolism|Animals|Biomarkers|DNA, Mitochondrial/genetics|Animals|Cell Line|Collagen Type I/metabolism|Drugs, Chinese Herbal/*pharmacology|Fibronectins|genetics|chronic kidney-disease|diagnostic fluid|serum creatinine|failure|injury|hemo-dialysis|validation|utilization|systemic-lupus-erythematosus|collagen-induced arthritis|b-cells|t-cells|disease-activity|endothelial|blood substitutes|blood viscosity|cardiac function|horrhagic shock|rheology|small-volume resuscitation|gilts|puberty|exogenous gonadotrophins|serum anti-mullerian hormone|ovarian reserve|size|Oestrogen|ER α |Cough|Guinea pigs|Fulvestrant|Danazol

cyclic gmp|estradiol|heart failure|non-nuclear signaling|sgc stimulator|guanylate-cyclase stimulator|cattle|follicle|high fecundity|deviation|protein 15 gene|dominant follicle|stimulating-hormone|x-chromosome|cow|oviduct|estrogen|progesterone|sex steroid hormone receptor

Animals|Arginine/metabolism|Cattle|*Cattle Diseases/metabolism|Female|*Follicular Fluid/metabolism

aromatase|estradiol|exogenous gonadotropins|follicle|gilt|mares serum gonadotropin|reproductive|oxytocin|vasopressin|vitellogenesis|17 beta-estradiol|mud crab|crustacean hyperglycemic hormone

Animals|Epithelial Cells/metabolism|Male|Mice|Prostate/metabolism/pathology|*Prostatic Neoplas
anovular|follicle|dairy cow|prostaglandin|timed artificial-insemination|luteinizing-hormone|granulo
cyclosporine nephrotoxicity|dpp-4|da-1229|inflammation|fibrosis|oxidative stress|iv inhibitor|oxide
breast cancer|metastasis|cytokines|tumor microenvironment|bisphenol a|endocrine disruptors|hur
regulatory t-cells|mammary-gland development|cancer immunosurveillance|exposure|estrogen|alte
Adenosine Triphosphate/analysis|Animals|Cattle|DNA, Mitochondrial|*Estradiol|Female|*Follicular
estradiol|severe asthma|postmenopausal asthma|sputum|oxidative stress|sex-hormones|progester
laying hen|light|wavelength|growth|egg production|gonadotropin-inhibitory hormone|follicle-stimu
Vitamin B1|deficiency|mouse|oocyte meiosis|oocyte quality

sp1|estradiol (e2)|micrnas|cd44|rnf4|lung cancer|transcription factor sp1|estrogen-receptor-alpha
buffalo|superovulation|embryos|prostaglandin|follicular dynamics|multiple ovulation|prostaglandin
glutathione|nucleus|proliferating cell nuclear antigen (pcna)|cell cycle|overexpression|thioredoxin c
dj-1|early-onset parkinsonism|mitochondrial complex i|mitochondrial disease|oxidative stress|comp

Animals|Chiroptera/*physiology|Dose-Response Relationship, Drug|Finland|Food Chain|Geologic Se
chiroptera|redox status|oxidative damage|immune defence|ectoparasites|history trade-offs|oxidati
Amn|NAD(P)H coenzyme Q oxidoreductase 1|X-ald|cALD|ferroptosis|glutathione|glutathione peroxi
friedreich ataxia|oxidative stress|neurodegenerative disease|nrf2|glutathione|frataxin deficiency lea
antioxidants|birds|lead|metals|phagocytosis|oxidative status|protein damage|ros|heavy-metal poll

Animals|Antioxidants/*metabolism|Arsenic/*blood|Chromatography, High Pressure Liquid|Environn
aging|life cycle|longitudinal|maturity|oxidative stress|early growth-conditions|oxidative stress|supe
limnocalanus macrurus|zooplankton|oxidative stress biomarkers|baltic sea|hydrophobic organic con
captive asian elephants|ranging african elephants|loxodonta-africana|noninvasive assessment|enzym
animal welfare|glucocorticoids|human-animal interactions|human-animal relationships|mahout|phy
asian elephant|immunoglobulin a|glucocorticoids|saliva|feces|tourism|welfare|iga secretion|cortisol
elephas maximus|hormones|offspring|sex ratio|sociality|stress|stress|behavior|brain|bonds|mustl
salivary cortisol secretion|noninvasive assessment|stress responses|behavior|welfare|maximus|indi

enzyme-immunoassay|in-vitro|endometrial hyperplasia|dasyatis-americana|atlantic stingray|proges
sperm|cryopreservation|elasmobranch|semen|testosterone|dasyatis-americana|spermatozoa|moti
organic contaminants|great-lakes|fish|water|pharmaceuticals|disruption|zebrafish|survival|effluent
asian elephant|glucocorticoids|immunoassay|immunoglobulin a|well-being|fecal glucocorticoid met
crocodilians|fecal hormone metabolites|zoo management|lizards sceloporus-occidentalis|plasma tes
Adult|Animals|Humans|Dehydroepiandrosterone Sulfate|*Pan troglodytes|*Hydrocortisone|Steroid
anthropogenic impact|blubber hormones|entanglement|north atlantic right whale|steroid hormone
Animals|Endocrine System|Gastrointestinal Tract|*Hormones/metabolism|Solvents/metabolism|*W
Animals|Body Temperature|Corticosterone|Female|Gonadal Steroid Hormones|*Lizards|Male|Repr
Animals|*Elephants/metabolism|Feces|Glucocorticoids

elephant|prolactin|neurohormones|infertility|pituitary|ovarian acyclicity|salivary cortisol|nervous-s

Abstract

Loss of brain glutathione has been associated with cognitive decline and neuronal death during aging. Baleen whales are vulnerable to environmental impacts due to low fecundity, capital breeding strategy. Although numbers of giant anteaters within North American facilities have been steadily increasing for decades, the North American cheetah population serves as a reservoir for the species, and acts as a research platform. Millions of people globally depend on camelids, which demands an increased knowledge of their reproductive biology. Sharks and rays are popular species used in wildlife ecotourism and aquariums to educate the public about marine conservation. The value of biological samples collected in the field is compromised if storage conditions result in an increase in DNA damage. Non-invasive fecal hormone metabolite monitoring was used to characterize the estrous cycle, pregnancy, and lactation in wild female cheetahs. Simple Summary More than three decades of scientific study have been unable to determine the etiology of cheetah population decline.

Reproductive management of the southern tamandua (*Tamandua tetradactyla*) should include timed releases to the wild. The kea *Nestor notabilis* is an endangered New Zealand alpine parrot. After individuals became ill and died, a simple summary of the disease was provided. During the COVID-19 global pandemic the Oregon Zoo closed to all visitors and non-employees. There is growing evidence that *Chlamydia pecorum* infection of the male koala reproductive tract causes infertility. Understanding the fundamental reproductive biology of a species is the first step toward identifying and managing reproductive health. Ammonia accumulates in livestock accommodation, which inflames mucosal tissue to cause coughing and respiratory distress. For most cetacean species, there is little known about how an individual's physiology influences its behavior and health. Ensuring good health and welfare is an increasingly important consideration for conservation of endangered species. Cheetahs are one of the most heavily studied felid species, with numerous publications on health, disease, and management. In this work, we propose a novel diagnostic workflow-DigEST-that will enable stratification of disease severity. Urine Prostaglandin E2 (PGE2) has been identified as an attractive diagnostic and prognostic biomarker for cheetahs. A label-free, rapid, and easy-to-use lateral flow electrochemical biosensor was developed for urinary PGE2 detection. Little is known about the reproductive biology of the Canada lynx; virtually no data are available describing its population dynamics. Background We hypothesized that supplementation of nursery and grower pig diets with coconut oil would improve growth and health. Simple Summary Interactions between zoo professionals and animals, such as positive reinforcement training, are essential for the welfare and conservation of zoo animals.

For unknown reasons, reproductive success varies among zoos in managed red river hogs. In response to this, we investigated the adaptability and survival of *Porphyromonas gingivalis* in the oxidative microenvironment of the pig. We performed in vitro co-cultivation experiments with primary human nasal epithelial cells (HNEC) and *P. gingivalis*.

BACKGROUND: The objective was to determine the effects of agility exercise on dogs of different skill levels. **Objective:** Activin A, an inflammatory mediator implicated in cellular senescence-induced adipose tissue accumulation. **Noncanonical genomic imprinting** can cause biased expression of one parental allele in a tissue; however, the mechanisms are unclear. **Heavy metals and metalloids** contamination in soils, water, food and livers of wild rats have been studied. **OBJECTIVE:** Impairment of clock gene expression and changes in melatonin and 17-beta-estradiol levels in sheep. **Grazing annual cool-season forages** after oat grain harvest in South Dakota may allow an opportunity to improve soil health. **BACKGROUND:** Low birth weight is associated with deficits in nephron number in the infant kidney and adult hypertension. **Background and Purpose:** The haematopoietic activity of erythropoietin (EPO) is mediated by the classical erythropoietin receptor (EPOR). **Although high-fructose corn syrup (HFCS-55)** is the major sweetener in foods and soft-drinks, its potential health effects are unclear. **BACKGROUND:** On the national level, nutritional monitoring requires the assessment of reliable representative data. **Aims:** Patients with renovascular hypertension (RVH) exhibit elevated urinary mtDNA copy numbers, consistent with mitochondrial dysfunction. **Mitochondrial injury** contributes to renal dysfunction in several models of renal disease, but its involvement in RVH is unclear. **BACKGROUND:** Glomerular hyperfiltration may contribute to the high incidence of renal disease in obese individuals. **Elevated serum and urine urotensin II (UII) concentrations** have been reported in patients with end-stage renal disease. **Diabetic nephropathy (DN)** arises from systemic and local changes in glucose metabolism and hemodynamics. **Wine pomace by-products** are an important source of phenolic acids with significant health benefits. **Spinal cord injury (SCI)** significantly impacts many systems attributable to disrupted autonomic regulation. **Adherence to a low-gluten diet** has become increasingly common in parts of the general population. **Standardization of sample collection, shipping, and storage** has been a major focus of biorepositories.

Renal infiltration of inflammatory cells contributes to the pathogenesis of lupus nephritis (LN). Current evidence suggests that salivary Klotho, a protein counteracting aging, is a powerful inhibitor of 1,25-dihydroxyvitamin D-3 [1,25(OH)₂D₃].
BACKGROUND: Glyphosate is the most commonly used herbicide in the world and is purported to have effects similar to those of sericea lespedeza (SL, Lespedeza juncea).
The current study evaluated the effects of dietary increments of sericea lespedeza (SL, Lespedeza juncea) on the performance of early lactation cows.
The objectives of this study were to evaluate 2 feeding strategies for early lactation cows on performance.
The objectives were to study the effects of induced subclinical hypocalcemia [SCH, blood ionized Ca (iCa)] on the performance of early lactation cows.
Genetic fumarylacetoacetate hydrolase (Fah) deficiency is unique in that healthy gene-corrected hepatic stellate cells (HSCs) do not undergo activation.
Anti Xa non-vitamin K oral anticoagulants (anti Xa NOACs) seem to possess antiplatelet effect in vitro, but their effect on platelet reactivity in vivo is unclear.
Background Infants with moderate and severe neonatal encephalopathy (NE) frequently suffer from long-term neurodevelopmental sequelae.
Rationale: Evidence suggests that the physiopathologic consequences of obstructive sleep apnea (OSA) are similar to those of neonatal encephalopathy (NE).
Background Vascular calcification is associated with increased cardiovascular morbidity and mortality in patients with end-stage renal disease (ESRD).
BACKGROUND: Intermittent hypoxemia (IH) events are common in preterm neonates and are associated with increased mortality and neurodevelopmental sequelae.
BACKGROUND: Short chain fatty acids (SCFAs) and branched chain amino acids (BCAAs) are frequently used as feed additives in animal production.

INTRODUCTION: Commercially available radioimmunoassays (RIAs) are frequently used to evaluate the levels of various hormones and metabolites.
ELISA is widely used for urinary 8-oxo-7,8-dihydro-2'-deoxyguanosine (8-oxodG) analysis. It is the most sensitive and specific method for the detection of 8-oxodG.
Neopterin, a product of activated white blood cells, is a marker of nonspecific inflammation that can be used to assess the severity of inflammation.
Introduction: Lipid peroxidation products are present following oxidation of polyunsaturated fatty acids (PUFAs).
Exposure to traumatic stress is a major risk factor for development of neuropsychiatric disorders in children.
Objectives of the experiment were to determine the length of exposure to an acidogenic diet that would result in the highest levels of urinary 8-oxodG.
Our objectives were to determine the effects of an injectable formulation of calcitriol on mineral metabolism in early lactation cows.
Bisphenol F (BPF) is increasingly substituting bisphenol A in manufacturing polycarbonates and consumer products.
Emerging evidence has shown that podocyte injury and reduced specific podocyte protein expression are associated with proteinuria in early stages of kidney disease.
To investigate kidney injury in preeclampsia, we analyzed 14 biomarkers in urine specimen from 4 groups of women.
Urea pre-treatment of urine has been utilized since the early 1960s to remove high levels of urea from urine specimens.
Comprehensive two-dimensional gas chromatography mass spectrometry (GC x GC-MS) offers excellent resolution and sensitivity for the analysis of complex mixtures.
Hispanics/Latinos have higher rates of type 2 diabetes (T2D), and the origins of these disparities are poorly understood.
Glucocorticoids (GCs) are the most effective and commonly used drugs for the treatment of systemic inflammation.
The microbiome co-evolved with their mammalian host over thousands of years. This commensal relationship is essential for the health of the host.
Purpose: Previous studies have shown that prenatal testosterone affects the development of not only the reproductive system but also the brain.

Cytochrome P450 2E1 (CYP2E1) induction and oxidative metabolism of ethanol in hepatocytes is a major pathway for the metabolism of ethanol.
Animals reduce their exposure to predation often at the cost of nutritional inputs. A variety of predation risk factors have been identified.
Recent preclinical studies show renal denervation (RDNx) may be an effective treatment for hypertension in rodents.
Chronic ethanol ingestion mildly damages liver through oxidative stress and lipid oxidation, which is a major pathway for the metabolism of ethanol.
Aberrant microglia activity is associated with many neurological and psychiatric disorders, yet our knowledge of the underlying mechanisms is limited.
Conventional methods for sampling hormones often preclude strong inference experimental designs, and the use of microdialysis is limited by its invasiveness.
Objective This study aimed to investigate the short-term effect of ovariectomy on urine levels of various hormones and metabolites.
Cystinosis is an inherited disorder resulting from a mutation in the CTNS gene, causing progressive proteinuria and renal failure.
One of the clinical alterations observed in chronic renal disease (CRD) is the impaired urine concentration ability.
aEuro broken vertical bar nano-sized fragments surrounded by a lipid membrane [extracellular vesicle] are released by cells and can be taken up by other cells.
Inflammatory process mediated by innate and adaptive immune systems is a major pathogenic mechanism in the development of kidney disease.
Fibrosis is at the core of the high morbidity and mortality rates associated with the complications of chronic kidney disease (CKD).
BACKGROUND: Differences in arsenic metabolism capacity may influence risk for type 2 diabetes, but the underlying mechanisms are unclear.
Cortisol is the main glucocorticoid hormone promoting compensatory metabolic responses of stress in rodents.
Background: Maternal stress during pregnancy can influence the trajectory of fetal development, shaping the child's health and behavior.
Purpose Cushingoid features are occasionally encountered in infants after pediatric cataract surgery. The purpose of this study was to determine the effect of the commercial feed additive OmniGen-AF (R) on immune, physiological, and behavioral parameters in these infants.

To determine the effect of the commercial feed additive OmniGen-AF (R) on immune, physiological, and behavioral parameters in these infants.

Early-life stress (ELS) creates life-long vulnerability to stress-related anxiety disorders through altering
The understanding of stress and its impact on human performance is crucial to mitigate human error
Simple Summary A fungal toxin, aflatoxin B1 (AFB1), undermines growth and stress axes of gilthead sea

BACKGROUND: Recent advancements in 3-dimensional patient-derived organoid models have revolutionized
Abstract Background Existing literature indicates a positive relationship between stress and chronic periodontitis
BACKGROUND: Existing literature indicates a positive relationship between stress and chronic periodontitis
Background: Existing literature indicates a positive relationship between stress and chronic periodontitis
Chronic stress can have detrimental effects on an individual's health and reproductive success. The use of
This study investigated the effects of injectable vitamin C (VC) at weaning and prior to transit on growth and
Background: Amphetamine abuse has been conceived as an addictive illness where stress regulation is impaired
The number of Sertoli cells has a major effect on adult testis size and sperm production capacity. Mechanisms
Background: Burn injuries are associated with strong inflammation and risk of secondary sepsis which
BACKGROUND: Glucocorticoid (GC) treatment has variable effect in sepsis. This may be explained by the

The relationships among animal form, function and performance are complex, and vary across environments
Background: Meditation represents an effective and safe practice to lower distress and promote well-being
Background and aims Immune tolerance breakdown during UC involves the peroxisome proliferator-activated
Simple Summary Bovine respiratory disease is one of the greatest health challenges cattle producers face
This study was designed to determine if supplementation of a combination live yeast and yeast cell wall
The neonatal leptin surge is important for hypothalamic development, feed intake regulation, and locomotor
This study evaluated the effect of genetic selection for markers related to marbling deposition in Angus
The study examined the effect of chromium supplementation on the response of steers to an LPS challenge
A study was conducted to determine the effect of feeding yeast cell wall (YCW) products on the physiological
Dairy calves in the Southwest regions of the United States are typically raised individually in wooden pens
OBJECTIVE: A randomized clinical study to compare the stress response to laparoscopic cholecystectomy
Objective: The aim of this study was to evaluate the effect of carbohydrate or glutamine supplementation
Objectives: The aim of this study was to evaluate the combined effects of carbohydrate (CHO) and glu
This study evaluated whether administration of lipopolysaccharide (LPS) at each trimester of gestation
Background: An objective diagnosis of sedentary behaviour as well as of the physical activity and fitness
The objective of this study was to assess the association between serum concentrations of haptoglobin
Stress hormones, released into circulation as a consequence of disturbance, are classically assayed from
Several hormones are potential indicators of stress in free-ranging animals and provide information on
Optimal methods of hormone extraction used to measure stress in animals across sample types are not
Redbelly tilapia (*Tilapia zillii*; Gervais, 1848) is one of the most valuable freshwater species in North America
Cortisol concentration (CC) is often used as a stress indicator in animals, as high CC is associated with
Adrenocortical carcinoma (ACC) generally has poor prognosis. Existing treatments provide limited benefit
Our objective was to investigate the effects of administering the nonsteroidal anti-inflammatory drug
Pasture access is key to horse welfare, but during summer biting insects can cause discomfort and lead
TBP is a natural product from *Tamarindus indica* L. seeds used as a natural remedy in India. This product
Objectives We quantified variation in fecal cortisol across reproductive periods in Azara's owl monkey
In intensive pig farming of Western and Southern Europe, welfare concerns are still often related to
Meals high in SFA, particularly palmitate, are associated with postprandial inflammation and insulin resistance

A critical component of conserving and housing species *ex situ* is an explicit scientific understanding of
The objective of this study was to investigate the profiles of hair cortisol concentrations as an index of
The productive and reproductive characteristics of Brown Swiss (B) cross-bred cows were investigated
Measurement of the cortisol concentration in hair has been used as an index of chronic stress in several
There is a constant need to find feed additives that improve health and nutrition of farmed fish and
Disease results from interactions among the host, pathogen, and environment. Inoculation trials can be

Background: Impaired stress resilience and a dysfunctional hypothalamic-pituitary-adrenal (HPA) axis : We investigated how forage material affects indicators of welfare in three male Western lowland gor Children and mothers' cortisol production in response to family psychosocial conditions, including pai Hair cortisol concentrations (HCC) were studied in mother-child dyads of La Romana, Dominican Rep. Some parameters should be evaluated before the analysis of cortisol hormone using enzyme-linked ir Husbandry procedures are necessary for different purposes in horse breeding. The aim of the present Twenty-eight newborn Holstein heifer calves from the university herd and 8 newborn Holstein heifer Background The main objective of this study was to describe the inflammatory status of adolescents v Acute stress is a feature of our daily events that affects cardiovascular system and predisposes to hyp Fibromyalgia (FM) and chronic fatigue syndrome (CFS) are two medical conditions in which pain, fatig Chronic or repeated exposure to environmental contaminants may result in allostatic overload, a phy Introduction: Sickle cell disease (SCD) is a chronic illness that presents with a wide range of phenotypi Colostrum feeding is vital for the development of the immune system and gastrointestinal tract in ne Background: Incidental radiotherapy (RT) to the adrenal gland may have systemic effects. This study a Simple Summary Determining effects of physiological stress and vaccination type on performance and

Earlier studies have indicated that a high inclusion of n-6 fatty acids (FA) in feeds for Atlantic salmon c Yeast is a potential alternative to fish meal in diets for farmed fish, yet replacing more than 50 % of fi Live yeast may be a sustainable protein source in salmonid diets while exhibiting a probiotic effect to Refugees are exposed to a wide breadth of traumatic and psychosocially stressful experiences that ha The study objective was to determine if there was a relationship between behavioral and physiologic Temperature is a pivotal key in fish physiology but is limited in determining blood bone biomarker as The development of a sustainable aquaculture industry requires the closing of the life-cycle of a pote The improvement of aquaculture industry is directly linked to the improvement of fish welfare, as bet Background: Human fetal adrenal glands are highly active and, with the placenta, regulate circulating | Ashwagandha (*Withania somnifera*) is the most revered botanical in Ayurvedic medicine. It has been : When paired with dart biopsying, quantifying cortisol in blubber tissue may provide an index of relati OBJECTIVES: The indigenous population in northern Laos has experienced a transition from self-suffic The incisive evaluation of psychological stress may be required to determine the exercise performanc Inosine triphosphate pyrophosphatase (ITPA) hydrolyzes inosine triphosphate (ITP) and other deamin Environmental challenges are often associated with physiological changes in wildlife that allow anima Ulcerative colitis (UC) is an inflammatory bowel disease (IBD) and can be treated with glucocorticoids

Background: The prevalence of inadequate treatments for chronic pain has necessitated the search fo Objective: Cognitive behavioral therapies such as Prolonged Exposure (PE) are considered first line tre This cross-sectional study among low-income mother-child dyads examined the relationship between Purpose Literature on the relationship between hair cortisol concentration (HCC) and body mass inde Hair cortisol concentration (HCC) has emerged as an objective biological measure of stress in humans Background: Oxidative stress and inflammation are considered to be important pathways leading to p Background: Epidemiological studies have reported associations between air pollution and neuro-psy Primary pigmented nodular adrenocortical disease (PPNAD), whether in the context of Carney compl

How does social support bolster resilience? Here, we present a new dyadic paradigm to study causal | In teleost fish, myelopoiesis is maintained both in the head (HK) and trunk kidney (TK), but only the H Cortisol, a glucocorticoid secreted in response to stress, is used to assess adrenal function and menta

The objectives of this study were to determine the effects of oral supplementation with *Saccharomyc*

This paper establishes the feasibility of a reusable biosensor that can be operated and stored at room temperature. Adrenocortical cancer (ACC) is a rare and aggressive type of endocrine tumor with high risk of recurrence. The aim of this trial was to evaluate the effects of an immunomodulatory supplement (OmniGen AF, 100 mg/kg). Human induced pluripotent stem cells (hiPSCs) are expected to be both a revolutionary cell source for regenerative medicine and a tool for studying disease. Several kinds of animals are utilized in animal-assisted interventions (AAIs) for humans, which release beneficial hormones and neurotransmitters. BACKGROUND: Posttraumatic stress disorder, an area of large unmet medical needs, is characterized by persistent negative affect and hyperarousal. The effects of providing rest on physiological and behavioural indicators of welfare of cattle being transported over long distances are being investigated. Consumers are increasingly concerned about the welfare of farm animals, especially during transport. The aim of this study was to assess the effects of conditioning, rest, and post-rest transport duration on welfare. OBJECTIVE: To use noninvasive approaches to assess stress in New York City (NYC) carriage horses during transport. OBJECTIVE: To assess the effects of transdermal flunixin administration on serum prostaglandin E2 (PGE2) levels in horses. Introduction: It is still unclear which green nature aspects can counteract psychosocial stress: the green infrastructure (GI) and green spaces (GS). Glucocorticoid (GC) stress hormones are well-known for their impact on phenotypic traits ranging from growth to immune response. The aim of this work was to evaluate the effects on growth performance, intermediary metabolism and immune response. The aim of this work was to evaluate the effects on growth performance, intermediary metabolism and immune response. This study was undertaken to assess the effects of fish oil (FO) substitution by a mixture of alternative oils.

Orphaned koala joeys constitute a substantial number of wildlife rescues. Mortality is highly prevalent in captivity.

Captivity may have adverse effects on captive great apes, as they spend much more of their time engaged in stereotyped behaviours. The aim of this work was to evaluate two functional feeds for the gilthead seabream, *Sparus aurata*, cultured in recirculating aquaculture systems. The stress response transmitted by the HPA axis is one of the best examples of neuroendocrine-immune interactions. Previous studies with calves and other species have provided evidence that blood serum-derived proteins can be used as stress biomarkers. A chemometric class modelling strategy (unequal dispersed classes - UNEQ) was applied for the first time to classify samples. Animal-Visitor Interactions (AVI) are activities offered by zoos and other tourism facilities, in which visitors interact with animals. This study aimed to assess the thermoregulatory responses of Santa Ine circumflex accent s (SI), Dorper and Merino sheep. In salmonids, stress responses increase cortisol levels and disease susceptibility, including to Flavobacterium columnare. The main objective of this research was to carry out an experimental study, triple-blind, on the possibility of using a natural product to control sea lice. The objective of this research was to determine if form of calf starter (CS) and addition of a fatty acid source could improve growth. Lumpfish (*Cyclopterus lumpus* L.) are widely used for controlling sea lice in salmon farming, but their use is limited by their high mortality. Background: The effect of systemic cortisol on pregnancy rate during early pregnancy in repeat breeders is not clear. Disbudding is a common procedure practiced in the dairy industry and is known to cause pain when performed in calves. Simple Summary In no-kill policy countries, many dogs live in shelters. Several social, environmental, and management factors can affect their health. Intensive training and exhausting exercise can disrupt innate and acquired immunity. The flavanone hesperetin has been shown to have immunomodulatory effects. The aim of this study was to establish the influence of flavonoid-enriched diets on the immune alterations induced by stress. Intensive acute exercise can induce oxidative stress, leading to muscle damage and immune function impairment. Previously, in organotypic slice culture of rodent hippocampus we found that three repeated inductions of stress impaired long-term potentiation. This study was conducted to determine if feeding a *Saccharomyces cerevisiae* fermentation product (Fermi) could improve health. Cattle temperament, defined as the reactivity of cattle to humans or novel environments, can greatly affect their welfare. OBJECTIVE: To evaluate analgesic efficacy of 3 different preoperative protocols in cows undergoing ringworm surgery.

Emotion dysregulation has been associated with increases in many forms of psychopathology in adolescents. Major Depressive Disorder is a common mental illness with rates increasing during adolescence. This study aimed to investigate the role of emotion dysregulation in adolescent depression.

Socioeconomic disadvantage has been linked to increased stress exposure in children and adults. Experimental studies have shown that stress exposure in early life can lead to long-term health and behavioural problems. The loss of fish in the seawater (SW) phase of Atlantic salmon farming is high, and a major proportion of the loss is due to disease. The objective was to provide an updated profile of the bovine acute-phase response to include recent findings on the role of the hypothalamic-pituitary-adrenal axis. Optimal results in cattle embryo transfer are limited by the variation in ova recovery, fertilization rate and embryo survival.

Humans often experience striking performance deficits when their outcomes are determined by their

The aim of this study was to objectively assess stress of kangaroos affected by lumpy jaw disease (LJD)
Animal shelters are often associated with high levels of stressors that can compromise welfare. Miti-g

In the academic literature there is debate as to whether women who engage in multiple social roles e
Both systemic and locally released steroid hormones, such as cortisol and estrogens, show immunom

Hair may be a useful matrix to detect cumulative cortisol concentrations in studies of animal welfare .
Context: Pathogenic variants in KCNJ5, encoding the GIRK4 (Kir3.4) potassium channel, have been imp

Human-generated negative impacts on aquatic environments are rising. Despite wild fish playing a ke
We report on label free, highly sensitive and selective electrochemical immunosensors based on one-
Low/no-income, African American men are disproportionately burdened by chronic disease resulting fr
The objective was to evaluate the effects of Zn supplementation and adrenocorticotrophic hormone (A
The persistent coexistence of stress and paediatric obesity involves interrelated psychophysiological r
Maternal prenatal psychosocial stress is associated with adverse hypothalamic-pituitary-adrenal axis
Elevated social fear in infancy poses risk for later social maladjustment and psychopathology. Hair cor
Seasonally breeding mammals must make constant adjustments in behavior and physiology to manag
Hormone laboratories located on-site" where field studies are being conducted have a number of adv
Hair plucking has been observed in many captive primate species, including the great apes; however,
Baleen tissue accumulates stress hormones (glucocorticoids, GC) as it grows, along with other adrena
Species that live in degraded habitats often show signs of physiological stress. Glucocorticoid hormon
Public concern for animal welfare has progressively grown over the recent years. In this context, stres
Intrinsic and environmental stressors, such as age and seasonality, may influence social behavior and
Familial hypertrophic cardiomyopathy (HCM) is largely caused by dominant mutations in genes encoc
Assessing the physiological impact of stressors in pinnipeds is logistically challenging, and many horm
Research into stress physiology of mysticete whales has been hampered by difficulty in obtaining rep
Objective: The enzymatic activity of 11 beta-hydroxysteroid dehydrogenase-2 (11 beta-HSD2) is key t
This study was designed to determine the effect of prenatal lipopolysaccharide (LPS) exposure on the
Rapid climate warming is decreasing sea ice thickness, extent and duration. Marine mammals such as
Ringed (*Pusa hispida*) and bearded seals (*Erignathus barbatus*) inhabit vast and often remote areas in
Keratinized tissues, including whiskers, are ideal for acquiring a record of physiological parameters. M

Background: Chronic psychosocial stress during pregnancy and/or after birth, and the associated elev
Simple Summary Frustration is a negative emotional state implicated in a range of canine behaviour p
Abstract The use of keratinized tissues (e.g., hair, claws) to investigate physiological effects of enviro
Monitoring the physiology of small aquatic and marine teleost fish presents challenges. Blood sample
Expression of eukaryotic proteins in *Escherichia coli* is challenging, especially when they contain disulf
The immune-enhancing effects of selenium (Se) supplementation make it a promising complementar
In this paper, we report on a method to probe the breakdown of the organophosphate (OP) simulant:
HMGB1, one of the most abundant nuclear proteins, has a strong binding affinity for cisplatin-modifie
Ratiometric quantitation is used in mass spectrometry to account for variations in ionization efficienc
Light-emitting diode therapy (LEDT) applied over the leg, gluteus and lower-back muscles of mice usin
We tested the hypothesis that cancer cachexia progression would induce oxidative post-translational
Context: Chemotherapy is a cornerstone in the treatment of hepatocellular carcinoma (HCC). Melator
Although supplementing the diet with zinc oxide and arginine is known to improve growth in weanlin
Biomarker responses and histopathological lesions have been documented in laboratory mammals ex
The health of tree swallows, *Tachycineta bicolor*, on the Upper Mississippi River (UMR) was assessed
While beta-adrenergic receptor (beta-AR) stimulation ensures adequate cardiac output during stress,

Defective Ca²⁺ regulation plays a key role in the blunted force-frequency response in heart failure (HF)

Bisphenol A (BPA) is used in the production of polycarbonate plastics and epoxy resins for baby bottles

Nitric oxide (NO), hydrogen sulfide and polysulfides have been proposed to contribute to redox signaling

We compare physiological responses of the crustacean copepod *Calanus pacificus* and pelagic pteropod

Both Ca deficiency and metal exposure may affect physiological and nutritional condition of breeding

Organophosphate triesters are high production volume additive flame retardants (OPFRs) and plasticizers

Type 2 diabetic patients have increased susceptibility to melioidosis, an infectious disease caused by *Legionella pneumophila*

Down Syndrome is the most common chromosomal disease and is also known for its decreased incidence

T(4) must be activated by its monodeiodination to T(3) by type 1 or 2 iodothyronine deiodinase (D1 and D2)

Heightened oxidative stress is implicated in the progressive impairment of skeletal muscle vascular architecture

Maternal thyroid hormones (THs) have been proven crucial for embryonic development in humans, but

Loss of function of dyskerin (DKC1), NOP10 and TIN2 are responsible for different inheritance patterns

Glutathionylcobalamin (GS-Cbl) is a biologically relevant vitamin B12 derivative and contains glutathione

Injuries suffered in armed conflicts often result in wounds with embedded metal fragments. Standard surgical guidelines

Acetaminophen (APAP) overdose induces acute liver damage and failure via reactive oxygen species production

Alzheimer's disease causes loss of appetite, resulting in bodyweight reduction. This, in turn, causes malnutrition

OBJECTIVE: To investigate the cytotoxic effects of azathioprine, 6-mercaptopurine, and 6-thioguanine on

Overexpression of superoxide dismutase 1 (SOD1) in the hippocampus results in age-dependent impairment of

Effects of household post-consumer plastics and tyre rubber on a Baltic Sea copepod *Limnocalanus macrurus*

Lowland residents adapt to the reduced oxygen availability at high altitude through a process known as hypoxia tolerance

Valproic acid (VPA) is widely used to treat epilepsy, migraine, chronic headache, bipolar disorder, and

Ornamental coloration in birds has been identified as a powerful, noninvasive tool for identifying experimental

Background: Mortality is significantly higher in septic patients with cancer than in septic patients without

C/EBP homologous protein (CHOP) is a transcription factor that is elevated in adipose tissue across models of obesity

Background/Aims: Although increased oxidative stress plays a role in heart failure (HF)-induced skeletal muscle

Purpose: Those engaged in high stress occupations such as firefighters and military personnel are exposed to

Background: The effects of exercise training on Chagas heart disease are still unclear. This study aimed to

Poor skeletal muscle performance was shown to strongly predict mortality and long-term prognosis in

Whilst a considerable number of studies have been reported on the acute toxicity of nanoparticles (NPs),

Among the mechanisms of action of hyperbaric oxygenation (HBO), the chance of reducing injury by

Glyphosate is the globally most used herbicide against a wide range of weeds. Glyphosate has been classified as a probable carcinogen

Glyphosate is the most used herbicide worldwide, targeting physiological pathways in plants. Recent studies have

The Striatum-Enriched tyrosine Phosphatase (STEP) is involved in the etiology of several age-associated neurodegenerative

AIMS/HYPOTHESIS: Pancreatic beta cells chronically exposed to low glucose concentrations show significant

Predator presence and shortage of food resources can alter behavior and cause chronic physiological stress

Werner Syndrome (WS, ICD-10 E34.8, ORPHA902) and Atypical Werner Syndrome (AWS, ICD-10 E34.8)

Objectives: The mechanisms by which low oxygen availability are associated with the development of

Acetaminophen (APAP) overdose induces acute liver injury via enhanced oxidative stress and glutathione

Methionine sulfoxide reductase A (MsrA) is a major antioxidant enzyme that specifically catalyzes the

Thioredoxin reductase 1 (TXNRD1) is associated with susceptibility to acetaminophen (APAP)-induced

Given the association between high aerobic capacity and the prevention of metabolic diseases, elucidating

Telomere length may reflect the expected life span and possibly individual quality. Environmental stressors

The physiological mechanisms underlying the 'cost of reproduction' remain under debate, though oxidative

Objective: Clopidogrel is a commonly used P2Y₁₂ inhibitor to treat and prevent arterial thrombotic events

The glucose stimulation of insulin secretion by pancreatic beta-cells depends on increased production of

Barbering, where a barber mouse plucks hair from its cagemates or itself, is both a spontaneously occurring

Oxidative stress has been strongly implicated in the progression of Parkinson's disease (PD). Depletion of

Background: Kindler Syndrome (KS) is an autosomal recessive skin disorder characterized by skin blistering

TP0446131, developed as an antidepressant agent, was found to cause lenticular opacity in a 13-week-old mouse. Understanding the interactive effects of multiple stressors on pelagic mollusks associated with global climate change. As one of the toxic mechanisms of nanoparticles (NPs), the reactive oxygen species (ROS) generation is a key factor. Mycobacterium tuberculosis (M. tb) is the etiological agent that is responsible for causing tuberculosis. Previously we have shown that prenatal moderate arsenic exposure (50 ppb) disrupts glucocorticoid signaling. In cystic fibrosis (CF), the absence of functional cystic fibrosis transmembrane conductance regulator (CFTR) is a major cause. This study evaluates the effect of dietary selenium (Se) supplementation source (organic, Se-enriched grape pomace (GP) is a rich source of polyphenols with antioxidant capacity. An experiment was conducted to evaluate the effect of Se-enriched GP on the antioxidant capacity of mice. BACKGROUND: Cigarette smoking is a major environmental contributor to COPD, but understanding its mechanisms is essential. Epidemiological studies report associations between air pollution (AP) exposures and several neurodegenerative diseases. Sodium tungstate is an alternative to reduce hyperglycemia for the treatment of diabetes. In previous studies, we have shown that sodium tungstate reduces hyperglycemia in mice. The master transcription factor nuclear factor (erythroid-derived 2)-like 2 (Nrf2) regulates the expression of antioxidant enzymes. The main purpose of this study was to certify the effect of native silymarin oil (SM-oil) formulated in a lipid emulsion on the antioxidant capacity of mice. Glutathione (GSH) is the most abundant low-molecular-mass thiol within cells and one of the major

Copper (Cu) is an essential, yet potentially toxic nutrient, as illustrated by inherited diseases of copper metabolism. Pollution of the aquatic environment by heavy metals is a great concern worldwide. Freshwater fish and shellfish are major targets for acute metal toxicity in fish, due to their permanent contact with aquatic pollutants. Mycobacterium tuberculosis (M. tb), a rod-shaped acid-fast bacterium, is the causative agent of tuberculosis. Moderate elevations of nitrite and nitric oxide (NO) protect mammalian tissues against ischemia and reperfusion injury. Aims: Although acute hyperglycemic (AHG) episodes are linked to lower glucose uptake, underlying mechanisms are unclear. The major risk factor for melioidosis, an infectious disease caused by B. pseudomallei, is diabetes mellitus. Cytokines are signaling biomolecules that serve as key regulators of our immune system. CD4(+) T-cell dysfunction is a hallmark of HIV infection. Time-restricted feeding (TRF) has been shown to improve body composition, blood lipids, and reduce inflammation. Glutathione (GSH) is a tripeptide that regulates intracellular redox and other vital aspects of cellular function. We examined the causes for decreased glutathione (GSH) in individuals with HIV infection. We observed that nonsteroidal anti-inflammatory drugs (NSAIDs), non-selective or selective inhibitors of cyclooxygenase, reduce GSH levels. Calcineurin is a Ca²⁺/calmodulin-dependent protein phosphatase abundantly expressed in the nervous system. OBJECTIVE: To examine the effects of GSTM1 null-allele polymorphism on oxidative stress and disease susceptibility. To assess if ferroptosis, a new type of programmed cell death accompanied by iron accumulation, lipid peroxidation, and mitochondrial damage, is involved in the pathogenesis of Parkinson's disease. Magnetite nanoparticles (MNP) have attracted great interest for biomedical applications due to their unique properties. The elderly are understudied despite their high risk of tuberculosis (TB). We sought to identify factors associated with TB in the elderly. Olive tree leaves are characterized for having not only a potent antioxidant power but also effects on

HIV-1 positive individuals are at high risk for susceptibility to both pulmonary tuberculosis (TB) and extrapulmonary tuberculosis. Background-Long chain acyl-CoA synthetases (ACSL) catalyze long-chain fatty acids (FA) conversion to long-chain acyl-CoA. Advanced glycation end products (AGEs) can activate the inflammatory pathways involved in diabetic complications. BACKGROUND: Air pollution has been associated with neurodevelopmental disorders in epidemiological studies. Unlike most characterized bacterial plant pathogens, the broad-host-range plant pathogen Pantoea agglomerans is a major cause of bacterial blight in cotton. Individuals with type 2 diabetes are at increased risk of acquiring melioidosis, a disease caused by Burkholderia pseudomallei. Objectives-Lead acetate (LA) is a known toxicant, and its exposure in the environment has been on the

HIV infects and destroys CD4+ T cells leading to a compromised immune system. In a double-blinded, randomized, controlled trial, we evaluated the effects of a dietary intervention on the immune system. The mercurial forms [inorganic divalent mercury, Hg(II) and methylmercury, CH₃Hg] produce neurotoxic effects. This study evaluated the in vitro effects of 62.5 µg/mL silica nanoparticles (SiO₂ NPs) on MRC-5 human fibroblasts.

Objective. Cervical cancer (CC) is a prevalent cancer in women. Hypoxia plays a critical role in CC cell proliferation and survival. Alcohol use disorder (AUD) is an enormous public health problem that poses significant social, medical, and economic burdens. Although essential amino acids regulate mechanistic target of rapamycin complex 1 (mTORC1) and thus cell growth, the role of amino acids in the pathogenesis of AUD is unclear. Human neutrophil 5-lipoxygenase (5-LOX) oxidizes arachidonic acid (AA) to 5S-hydroperoxy-6E,8Z,11Z-trienoic acid (5-HPA).

Aging is a biologic process characterized by time-dependent functional declines that are influenced by

Using hyperbaric oxygen (HBO) therapy as an in vivo oxidation model, we investigated the effect of a
The aim of this study was to investigate the detailed mechanisms of hepatotoxicity induced by cadmi
Many species of marine life in southwestern Florida, including sea turtles, are impacted by blooms of
The relationship between metabolism and reactive oxygen species (ROS) production by the mitochon

Biomarkers are applied as early warning indicators of organisms' exposure to pollutants. The aim of th
As renal dysfunction is a leading cause of morbidity in sickle cell disease it is important that clinicians
Background: Exposure to intrauterine growth retardation (IUGR) can have a negative impact on neph
Aerobic exercise elicits a multitude of physiological improvements in both healthy and diseased popu

Background. Chronic kidney disease (CKD) is a leading complication of type 2 diabetes mellitus (T2DM
Alteration of the ubiquitous thiol tripeptide glutathione (GSH) is involved in oxidative stress, which pl
A novel low volume blood loop model (Enson Triad System [ETS]) incorporating pulsatile flow and a p
Chlorine is a highly toxic respiratory irritant that when inhaled causes epithelial cell injury, alveolar-ca
Chlorine gas is a widely used industrial compound that is highly toxic by inhalation and is considered a
Purpose We studied the health benefits of low calorie cranberry beverage consumption on glucoregul
Ischemia-reperfusion injuries are a critical determinant of lung transplantation success. The endogen
Introduction: Myocardial infarction is one of the leading causes of morbidity and mortality worldwide
The fluidity of cadaveric blood is an important characteristic in the post-mortem examination of case:
Scope: Mild dietary zinc (Zn) deficiency is wide-spread in human populations, but the effect on Zn-dep
When exposed to stressors, animals physiologically respond by secreting glucocorticoid hormones. M

Sepsis, an exaggerated systemic inflammatory response, remains a major medical challenge. Both hyp
Glucocorticoid (GC) signaling in thymocytes counters negative selection and promotes the generation
Glucocorticoids are lipid-soluble hormones that signal via the glucocorticoid receptor (GR), a ligand-d
Airway epithelial cells mount a tolerogenic microenvironment that reduces the proinflammatory pote
Salt is an essential nutrient; however, excessive salt intake is a prominent public health concern worl
Identifying signals in the tumor microenvironment (TME) that shape CD8(+) T cell phenotype can info
Distinct male and female patterns of pituitary GH secretion produce sexually differentiated hepatic ge
Pharmacological interventions that selectively activate serotonin 5-hydroxytryptamine-1A (5-HT1A) l
Phthalate esters such as di-butyl phthalate (DBP) and di-ethyl hexyl phthalate (DEHP) used in persona
Brown seaweed (*Ascophyllum nodosum*) is an exceptional bioactive substance known for its excellen
Heat stress causes economic losses via decreasing feed intake, nutrient digestion, weight gain, feed c
Adolescent alcohol binge drinking constitutes a major vulnerability factor to develop alcoholism. How
Background Alcohol misuse and post-traumatic stress disorder (PTSD) are highly comorbid, and treat
The study aimed to investigate the significance of serum biomarkers in the severity grading of trauma
There is growing interest and concern for animal welfare in commercial poultry production. To evalu
Consumer concerns about the welfare of laying hens are increasing, leading to increased interest in ic
When introduced to the laying facility, pullets are sometimes temporarily excluded from the litter are
Psychosocial stress is the major form of stress faced by children and adolescents and is an important r
In commercial layer poultry farming, molt induction is an important tool used by egg producers to pr
Identifying the precise neuronal networks activated during paradoxical sleep (PS, also called REM slee
Studying paradoxical sleep homeostasis requires the specific and efficient deprivation of paradoxical :
Corticosterone is known as a biological stress index in many species including birds. Feather corticost
This study investigates program animal welfare using both behavioral and physiological measures in t
The present study investigated the stress adaptation and role of angiotensin in response to repeated
The present study was designed to explore the role of GSK-3 beta and NF-kB signaling in electric foot

BACKGROUND: The present study was designed to explore the anti-stress role of AR-A014418, a selective TNF inhibitor. TNF is an important mediator in numerous inflammatory diseases, e.g., in inflammatory bowel diseases. **Objective:** The present study evaluated the nociceptive response induced by dentin hypersensitivity in rats. Up to 80% of cancer patients are affected by the cancer anorexia-cachexia syndrome (CACS), which leaves them facing many challenges during seasonal migrations and must make important decisions about when to migrate. During spring, increasing daylengths stimulate gonadal development in migratory birds. However, late migration can be detrimental. Regulation of adipogenesis is of major interest given that adipose tissue expansion and dysfunction are associated with obesity. Photoperiod and diet are factors known to modulate the hypothalamic-pituitary-adrenal (HPA) axis. **Background:** Evidence from clinical studies and animal models show that inflammation can lead to the development of obesity. Experimenter familiarization with laboratory rodents through handling prior to experimentation is an important step. As a free-living larval stage of a vertebrate, tadpoles are good subjects for the study of the development of the immune system. Consecutive exposures to different pathogens are highly prevalent and often alter the host immune response. Corticosteroid stress hormones drive a multitude of adaptations in the brain. Hypothalamic corticotropin-releasing hormone (CRH) and Vitamin A and its active metabolite, retinoic acid (RA), play a key role in the maintenance of cognitive function. Early experiences produce effects that may persist throughout life. Therefore, to understand adult phenotype, we need to know about early life experiences. Many cytotoxic chemotherapeutics elicit a proinflammatory response which is often associated with cachexia. We analysed the effects of cold stress (19 +/- 1 degrees C, 6h /day, from the first to the seventh day of life) on the development of obesity. Exogenous glucocorticoid administration results in hyperglycemia, insulin resistance, hepatic dyslipidemia, and obesity. Intermittent social defeat stress engenders persistent neuroadaptations and can result in later increases in body weight.

Humans live, eat, and become overweight/obese in complex surroundings where there are many available food sources. It is well established that corticosterone (CORT) enhances memory consolidation of emotionally arousing events. Microglia in the mediobasal hypothalamus (MBH) respond to inflammatory stimuli and metabolic perturbations. Climate change is causing increases in temperature and in the frequency of extreme weather events. In the stomach, chronic inflammation causes metaplasia and creates a favorable environment for the growth of Helicobacter pylori.

Background: Studies in clinical populations and preclinical models have shown that prenatal alcohol exposure has a relevant effect on animal health and productivity. Stress and environmental changes during pregnancy can affect fetal development. **OBJECTIVE:** Although epilepsies and neurodegenerative disorders show pathophysiological similarities, the underlying mechanisms are different. Glucocorticoids (GCs) are metabolic hormones that promote catabolic processes, which release stored energy. 2,3,5-trimethyl-3-thiazoline (TMT) is a chemical compound that is extracted from red fox urine and causes a strong aversive response. **Aim:** Although cognitive deficits commonly co-occur with stress-related emotional disorders, the effect of stress on cognitive function is not fully understood. A prior history of excessive drinking induces a negative affective state in both humans and laboratory animals. Hepatic glutathione synthesis and antioxidant protection are critically important for efficient detoxification of alcohol. Altered working and sleeping schedules during the COVID-19 pandemic likely impact our circadian system. Chronic, sustained exposure to stressors can profoundly affect tissue homeostasis, although the mechanisms are not fully understood. The molecular circadian clock is a self-regulating transcription/translation cycle of positive (Bmal1, Clock) and negative (Per1, Per2, Per3, Cry1, Cry2) factors. **Background:** Stress during pregnancy and maternal inflammation are two common prenatal factors that can affect fetal development. Multiple sclerosis (MS) is more common in western countries with diet being a potential contributing factor. Stimuli perceived as stressful by animals increase glucocorticoid secretion over basal levels. This is an important finding. Knowledge of animals' hormonal status is important for conservation studies in wild or semi-free-ranging animals. Neuropsychiatric disturbances (NPDs) are considered hallmarks of Alzheimer's disease (AD). Nevertheless, the underlying mechanisms are not fully understood. Adipose tissue secretes numerous cytokines (termed 'adipokines') that have known or hypothesized effects on the immune system. **Background:** Melancholic depression, described also as endogenous depression, is a mood disorder with a strong genetic component. Stimulant drugs produce reward but also activate stress-responsive systems. The corticotropin-releasing hormone (CRH) system is involved in the regulation of stress responses. Overgeneralized fear has long been implicated in generalized anxiety and post-traumatic stress disorder. **Background:** African grey parrots (*Psittacus erithacus*) are kept as pets and are frequently hand-reared. Understanding the extent of overlap between life-history stages is fundamental to understanding full life-history strategies. Preparation for breeding may overlap extensively with vernal migration in long-distance migratory species.

Activation of the hypothalamic-pituitary-adrenal axis results in the release of hormones from the adrenal glands. Clinical evidence indicates that patients with temporal lobe epilepsy (TLE) often show differential outcomes. Background: The incidence of obesity is rising, particularly among women. Microvascular dysfunction is a common complication. Early life adversity impairs normal hippocampal function and connectivity in various mammalian species. Reptiles are the unique ectothermic amniotes, providing the key link between ectothermic and endothermic amniotes. Adolescence is one of the critical periods of development and has great importance to health for an individual. Background: In humans, functional magnetic resonance imaging (fMRI) cannot be used to its full potential. We used time-restricted feeding (TRF) to investigate whether microbial metabolites and the hunger hormone ghrelin influence brain activity.

Introduction: Cannabinoid hyperemesis syndrome is becoming a more prominently reported side effect of chronic cannabis use.

Rationale: Dysregulation of the endocannabinoid (eCB) system by high doses of Delta(9)-tetrahydrocannabinol (THC) is a potential mechanism. Limited information is available on suitable height of transport crates for turkeys. We compared behavior and physiological parameters. Monitoring the physiology of wild populations presents many technical challenges. Blood samples, liver, and feces were collected. *Rhodiola rosea* L. (*R. rosea*) is an adaptogenic plant increasing body resistance to stress. Its efficacy has been studied in various models. First evidence started to demonstrate the anxiolytic effects of low molecular weight peptides extracted from *Rhodiola rosea*. Mimicking the breast milk lipid composition appears to be necessary for infant formula to cover the biological needs of the infant. Physical confinement, or restraint, is a psychological stressor used in rodent studies. A single restraint stressor can induce long-term effects. BACKGROUND: Most Agouti viable yellow (Avy) mice display constitutive expression of agouti protein, which is a dominant yellow coat color. African penguins (*Spheniscus demersus*) are an endangered species, with approximately 70,000 mature individuals remaining. MicroRNAs (miRNAs) are processed from primary miRNA transcripts (pri-miRNAs), many of which are processed into mature miRNAs. The earliest effect of spaceflight is an alteration in vestibular function due to microgravity. Hypergravity is a model of spaceflight. As animals move through life history stages, energy requirements for each stage will vary. Both daily and seasonal energy requirements vary. Time-restricted feeding ameliorates the deleterious effects of a high-fat diet on body weight and metabolic health. Polybrominated diphenyl ethers (PBDEs) have been previously shown to alter various endocrine biosynthesis pathways. Hypoglycemia-associated autonomic failure (HAAF) is a maladaptive failure in glucose counterregulation. Stress physiology is commonly employed in studies of wildlife ecology and conservation. Accordingly, the "Cort-Fitness" hypothesis predicts a negative relationship between baseline glucocorticoids (GCs) and fitness. Understanding why breast cancer survivors are at an increased risk for cognitive and affective disorders is important. Obesity and diabetes are closely associated with hyperactivation of the hypothalamic-pituitary-adrenal axis. Psilocybin and other serotonergic psychedelics have re-emerged as therapeutics for neuropsychiatric disorders.

Ecstasy is the popular name of the abuse drug 3,4-methylenedioxymethamphetamine (MDMA) that causes neurotoxicity. Treatment resistance of anxiety-related disorders often arises from an inappropriate fear expression, which is a common practice and is often considered a form of refinement during experimental procedures. Ketamine has emerged as a novel treatment for common psychiatric conditions such as Major Depressive Disorder. In most vertebrate animals, glucocorticoid hormones are the chief mediators of homeostasis in response to stress. Embryo thermal stimulation has been studied as a means to promote epigenetic changes and to improve developmental outcomes. The secretion of steroids from the adrenal gland is a classic endocrine response to perturbations that affect the hypothalamic-pituitary-adrenal axis. Spaceflights are known to affect the immune system. In a previous study, we demonstrated that hypergravity affects the immune system. Background: This study evaluates the effects of probiotic therapy (PT) in rats with ligature-induced periodontitis. The traditional methods of preserving fecal samples to suspend hormone-degrading bacteria are not ideal. Glucocorticoid signaling controls many key biological functions ranging from stress responses to affective states.

AgRP neurons are important players in the control of energy homeostasis and are responsive to several hormones. All organisms possess innate behavioural and physiological programmes that ensure survival. In order to survive, organisms must adapt to their environment. Extended space missions are known to induce stress and immune dysregulation. Hindlimb unloading is a model of spaceflight.

In seasonal breeders, there are behavioral, endocrine, and neural adaptations that promote the sex:
Aims: Previous investigations by our group have shown that prenatal treatment with lipopolysaccharic
Exposure to acute stress can increase vulnerability to develop or express many psychiatric disorders,
Aims/hypothesis Chronic glucocorticoid therapy causes insulin resistance, dyslipidaemia, abnormal fat
In order to investigate the effects of glucocorticoid excess in rodent models, reliable methods of conti
Chronic stress is a major cause of neuropsychiatric conditions such as depression. Stress vulnerability
During spaceflight, organisms are subjected to mechanical force changes (gravity (G) changes) that af

BACKGROUND: Gut microbiota plays an important role during early development via bidirectional gut
Rationale: Cannabis users frequently report stress relief as their primary reason for use. Recent studie
BACKGROUND AND PURPOSEThe D1CT-7 mouse is one of the best known animal models of Tourette s
Over the past two decades, key advancements have been made in understanding the complex pathol
Although plasma corticosterone is considered the main glucocorticoid involved in regulation of stress
PURPOSE: Quaternary ammonium salts have demonstrated marked accumulation in the left ventricul
Chronic jet lag or shift work is deleterious to human metabolic health, in that such circadian desynchr
Urbanization is increasing globally and altering the stressors that animals face in their everyday lives.
Objective: To evaluate how deficiency in corticosteroid-binding globulin (CBG), the specific carrier of g
Mounting evidence suggests that gut microbiota do not only regulate intestinal function and health, k
BackgroundAerobic exercise has been shown to slow tumor progression in rodents and humans, but l
Simple Summary Evaluations of enrichment are critical to determine whether or not the goals of an e
Recently, we reported PPAR alpha-dependent DNA demethylation of the Fgf21 promoter in the postr
Receptors for glucocorticoid (GR) and corticotropin-releasing hormone (CRH) are largely found in brai
Neuroimmune cytokines are increased with alcohol withdrawal and may mediate clinical responses a:
Alzheimer's disease (AD) is a progressive, dementing, whole-body disorder that presents with decline
Calbindin-D(28K) (Calb1), a high-affinity calcium buffer/sensor, shows abundant expression in neuron
The blood-brain barrier (BBB) is a large regulatory and exchange interface between the brain and peri
Glucocorticoids (GCs) are effective drugs, but their clinical use is compromised by severe side effects
Alzheimer's disease (AD) is associated with disturbances in blood glucose regulation, and type-2 diabi
Ozone-induced lung injury/inflammation dissipates despite continued exposure for 3 or more days; h
BACKGROUND: Inhaled irritant air pollutants may trigger stress-related metabolic dysfunction associa
We have shown that acute ozone inhalation activates sympathetic-adrenal-medullary and hypothalar
Adult hippocampal neurogenesis is increased by antidepressants, and is required for some of their be
Recent studies support plasticity in adult brain white matter structure and myelination in response to
Some human diseases, including obesity, Type II diabetes, and numerous cancers, are thought to be i
Chronic insufficient sleep is a major societal problem and is associated with increased risk of metabol
Key pointsInappropriate intake of key micronutrients in pregnancy is known to alter maternal endocri
Selenium is an essential micronutrient commonly deficient in human populations. Selenium deficienc
The bed nucleus of the stria terminalis (BNST) is a forebrain region highly responsive to stress that ex
Early-life stress (ELS) leads to stress-related psychopathology in adulthood. Although dysfunction of c
Although injectable anesthetics are still widely used in laboratory rodents, scientific data concerning
Depression is a serious global social problem. Various therapeutic drugs have been developed based c
Transportation noise affects urbanized, rural, and otherwise unaltered habitats. Given expanding trar
Artificial light at night (hereafter ALAN") affects 88% of the land area in Europe and almost half of the
The cyclic adenosine monophosphate response element binding protein (CREB) is a phosphorylation-
Psychosocial stress disrupts reproduction and interferes with pulsatile LH secretion. The posterodors:
The pedunculo pontine tegmental nucleus (PPT) and laterodorsal tegmental nucleus (LDT) are heterog
In healthy conditions, prepubertal growth follows an individual specific growth channel. Growth horn
Chronic stress has been associated with several negative health outcomes and psychopathological co
Physical exercise and chronic social stress are both known to impact general health and hypothalamic
We measured serum CORT elevation in wild-type and PACAP-deficient C57BL/6N male mice after acu

Aggression in male mice often leads to injury and death, making social housing difficult. We tested whether chronic psychological stress affects brain regions involved in memory such as the hippocampus and amygdala. Maternal exposure to stressors during lactation has previously been demonstrated to impact various brain regions. OBJECTIVES: Depression is a psychiatric disorder that affects about 10% of the world's population and is a leading cause of disability. Endometriosis is a condition in which tissue similar to the womb lining begins to grow in other sites, such as the lungs and bladder. Patients with diabetes mellitus are predisposed to cognitive impairment. Fractalkine-CX3CR1 in the brain is involved in microglial activation and neuroinflammation. Aversive reactions to novelty (or neophobia") have been described in a wide variety of different animal species. Introduction: Disruption of maternal care using maternal separation (MS) models has provided significant insights into the effects of early life stress. Flowerpot method of rapid eye movement sleep (REMS) deprivation (REMSD) has been most extensively used to study the effects of sleep deprivation. Stress leaves a lasting impression on an organism and reshapes future responses. However, the influence of stress on the brain is complex. Accurate measurement of circulating glucocorticoid concentrations in rodents is often hampered by the stress of handling. Stress is a part of everyday life, but excessive stress can be related to diverse diseases. Recently, oral administration of a natural product has been shown to reduce stress. In previous studies, the non-sugar component (NSC) fraction, analyzed as 50 % methanol extract from the root bark of Morus alba, was shown to have anti-stress effects. Sickness behavior is considered part of the specific beneficial adaptive behavioral and neuroimmune response to infection. The clock protein period 1 (PER1) is a central component of the core transcription-translation feedback loop that regulates circadian rhythms. Selective serotonin reuptake inhibitors (SSRIs) are commonly prescribed to women before or during pregnancy. Many women who take antidepressant medications become pregnant while taking their medication; however, the safety of these medications during pregnancy is still uncertain. High levels of chronic stress or stress hormones are associated with depressive-like behavior in animal models. Sepsis mouse models revealed thymus atrophy, characterized by decreased thymus weight and loss of thymocytes. Several behavioral interventions, based on social enrichment and observational learning are applied in rodent models of stress. Mechanical ventilation is a life-saving intervention for patients in respiratory failure. Unfortunately, patients with respiratory failure often experience delirium. Rats find initial interactions with humans frightening, which can lead to negative affect, and poor well-being.

Vascular contributions to cognitive impairment and dementia (VCID) is a spectrum of cognitive deficit ranging from mild cognitive impairment to Alzheimer's disease. Background: Previous studies suggested that opiate withdrawal may increase anxiety and disrupt brain function. Animal welfare is recognized as essential for the coexistence of humans and animals. Considering the impact of stress on animal health, it is important to develop strategies to improve animal welfare. Background: Chronic stress contributes to the development of brain disorders, such as neurodegenerative diseases. Chronic fatigue syndrome (CFS) is one of the most intractable diseases and is characterized by severe fatigue and other symptoms. Social status is a critical factor determining health outcomes in human and nonhuman social species. Within the bone marrow, the endosteal niche plays a crucial role in B-cell differentiation. Because space is limited, only a few B-cells can reside in this niche. Few effective measures exist to combat the worldwide obesity epidemic(1), and the identification of effective interventions is a priority. Heat stress (HS) causes significant economic losses in the poultry industry every year. However, the mechanisms of HS-induced damage are still unclear. The immune system is sensitive to stress. Spleen is the largest peripheral immune organ innervated with sympathetic nerves. The root bark of Morus alba is commonly used as an alternative medicine due to its numerous health benefits. Psychosocial stressors can cause physical inactivity, cardiac damage, and hypotension-induced death. Loss of function mutations in the gene encoding dystrophin elicits a hypersensitive fear response in mice. Intermittent food deprivation (fasting, IF) improves mood and cognition and protects neurons against oxidative stress. Given the ongoing environmental crisis and recent calls within HCI to engage with its cascading effects, it is important to understand the mechanisms of stress and its impact on health. Stress responses differ by sex, and females are more susceptible to developing mental illnesses because of hormonal differences. The evolutionary advantages to the suppression of pain during a stressful event (stress-induced analgesia) are still unclear. Individual reactions to traumatic stress vary dramatically, yet the biological basis of this variation remains unclear. A single, severe episode of stress can bring about myriad responses amongst individuals, ranging from mild to severe. This study aimed at evaluating the effect of ractopamine (RAC) on metabolism, zootechnical performance, and health of pigs. Social interactions are critically important for survival and impact overall-health, but also impose costs. BACKGROUND: Patients with autism spectrum disorder (ASD) experience high rates of sleep disruption and anxiety. Neuropeptide Y (NPY) was recently proposed to be associated with stress and airway inflammation; however, the mechanisms are still unclear. Stress elicits activation of the hypothalamic-pituitary-adrenal axis, which leads to enhanced circulating levels of stress hormones. CLN3 disease is a fatal neurodegenerative disorder affecting children. Hallmarks include brain atrophy and motor deficits.

Alcohol use disorders can be driven by negative reinforcement. Alterations of the microtubule cytoskeleton in cohabitation with Ehrlich ascitic tumor-injected conspecifics induces behavioral, neurochemical, and endocrine changes. **PURPOSE:** Central serous chorioretinopathy is a stress-induced disease and often shows pachychoroid

Eggshells are a significant part of hatchery waste which consist of calcium carbonate crust, membranes, and organic matter. **RF-amide related peptide 3 (RFRP-3)** is a neuropeptide thought to inhibit central regulation of fertility. **Mining noise** has a wide variety of frequency spectra and is a potential source of stress for wildlife. **Early-life adverse experiences (first hit)** lead to coping strategies that may confer resilience or vulnerability. **Bed rest** has been an established treatment in the past prescribed for critically ill or convalescing patients. **What traits help organisms expand their ranges?** Several behavioral and life history traits have been identified. **Compulsivity** is a failure to stop an ongoing behavior that has become inappropriate to the situation. **Chronic stress** evokes wide-ranging behavioral alterations, including risk avoidance, increased motor activity, and changes in social behavior. **Male sexual activity** reduces the level of depression through oxytocin (OT) release within the brain. **An effective combination of multi-omic datasets** can enhance our understanding of complex biological processes. **BACKGROUND:** Physiological processes, as immediate responses to the environment, are important in the regulation of behavior. **The potentially suppressive effects of the hypothalamic-pituitary-adrenal (HPA) axis** on the hypothalamic-pituitary-adrenal axis. **Physiological responses to psychological stressors** are protective in acute fight or flight situations; however, chronic stress can lead to maladaptive responses. **To study the fitness effects of individual variation in cognitive traits**, it is paramount to understand whether cognitive traits are heritable and whether they are associated with fitness. **Enhanced stress reactivity or sensitivity to chronic stress** increases the susceptibility to mood disorders. **Sleep promotes memory**, particularly for declarative learning. However, its role in non-declarative, or procedural, memory is less clear. **The innate immune system** provides important first-line defenses against invading pathogens and is crucial for the development of adaptive immunity. **Purpose.** The present study evaluated the effect of *Hypericum perforatum* dry extract in an experimental model of stress. **Relapse of previously extinguished fear** presents a significant, pervasive obstacle to the successful treatment of anxiety disorders. **Manipulating gut microbes** may improve mental health. **Prebiotics** are indigestible compounds that in the gut stimulate the growth of beneficial bacteria. **Circulating steroid hormone levels** exhibit high variation both within and between individuals, leading to individual differences in stress responses. **The ventromedial prefrontal cortex (vmPFC)** regulates fear acquisition, fear extinction, mood, andHPA axis activity. **BACKGROUND:** Epidemiological studies suggest that increased ozone exposure during gestation may cause developmental abnormalities. **Implantation is a sensitive window** in reproductive development during which disruptions may increase the risk of miscarriage. **Acute ozone exposure** induces a classical stress response with elevated circulating stress hormones and increased oxidative stress. **N-acylethanolamines (NAEs)**, which include the endocannabinoid anandamide, represent an important class of signaling molecules. **Simple Summary**Heat stress is a serious environmental problem, challenging poultry health and welfare. **Urinary dysfunction** is a common complaint following spinal cord injury (SCI) and is a leading issue for SCI patients. **Preterm infants** often spend a significant amount of time in the neonatal intensive care unit (NICU) where they are at risk of complications. **Histamine** is best known for its role in allergies, but it could also be involved in autoimmune diseases. **Hypoglycemia** is a major barrier to clinical management of persons with diabetes. **Emerging evidence** suggests that ketogenic diets (KDs) are becoming increasingly popular for the treatment of diabetes, yet they are associated with potential risks. **Cyclooxygenase-2 (COX-2)** is involved in different liver diseases but little is known about the significance of its expression. **Rodent models of maternal immune activation (MIA)** are increasingly used as experimental tools to study the effects of prenatal stress. **The most widespread reproductive rhythm** practiced in rabbit farming is based on artificial insemination. **Acute restraint stress (ARS)** for 3 h causes corticosterone (CORT) elevation in venous blood, which is associated with increased anxiety. **Chronic stress** exerts multiple negative effects on the physiology and health of an individual. **In the present study**, we examined the neurochemical mechanisms and neuroanatomical changes underlying the effects of chronic stress. **Microglia**, the innate immune cells of the central nervous system, regulate brain development by producing pro-inflammatory cytokines. **BACKGROUND:** Despite the twofold higher prevalence of major depressive and posttraumatic stress disorders, the underlying mechanisms are not well defined. **Endogenous cannabinoids (endocannabinoids, eCB)** are expressed throughout the body and contribute to the regulation of various physiological processes. **We assessed** if there were any sex-related differences in the ability of nicotine to increase plasma corticosterone. **Monobutyrin (MB)** and monovalerin (MV), glycerol esters of short-chain fatty acids (SCFAs), have been shown to have neuroprotective effects. **Exercise** may be one of the most effective and sound therapies for stroke; however, the mechanisms underlying its effects are not well defined. **Food allergy** is an emerging epidemic, and the underlying mechanisms are not well defined partly due to the complexity of the immune response. **Stress experiences** have been shown to be a risk factor for alcohol abuse in humans; however, a reliable

Adult C57BL/6J mice are known to exhibit high level of social flexibility while mice lacking the beta 2 s
Circulating concentrations of testosterone and its precursor androstenedione, as well as dehydroepiandrosterone
Chronic stress contributes to numerous human pathologies including cognition impairments and psych
Aims: Prolactin is a major immunomodulator. The present study evaluated the effects of short-term h
AIMS: To evaluate the influence of lactation on lung immune function during allergic inflammation. M
Mastication enhances brain function and mental health, but little is known about the molecular mech
Childhood adversity increases vulnerability to alcohol use disorders and preclinical models are needed
Adverse early life experience, such as childhood abuse, neglect, and trauma, increases lifetime risk fo
The present study aimed to analyze the effects of sleep restriction (SR) during pregnancy in rats. The
Early life adversity increases the risk for later infection. The febrile response is a potent mechanism to
Psychological stress is associated with various oral diseases such as aphthous stomatitis, oral lichen p
OBJECTIVE: Similar to the liver and kidneys, the intestine has been strongly suggested to be a glucone
Introduction: Metabolic effects of anthropogenic chemicals are a focus of environmental health resea
Levosimendan shows protective myocardial characteristics and is administered to enhance cardiac co
Objectives: Surgical interventions can cause systemic postoperative inflammation, which in turn can ir
Corticotropin-releasing hormone (CRH) neurons are the primary neural population controlling the hyp
How resources are distributed to growth and self-maintenance early in life is likely to impact survival
Developmental stress can alter resource allocation in early life, and in altricial birds with rapid develo
TNF is a central actor during inflammation and a well-recognized drug target for inflammatory disease
Centrifugation is a widely used procedure to study the impact of altered gravity on Earth, as observec
The glucocorticoid receptor (GR) is a potent metabolic regulator and a major drug target. While GR is
An individual's sex affects gene expression and many inflammatory diseases present in a sex-biased m
Excessive or chronic stress can lead to a variety of diseases due to aberrant activation of the glucocor
Glucocorticoids (GCs) are master regulators of systemic metabolism. Intriguingly, Cushing's syndrome
The glucocorticoid stress response is frequently used to indicate vertebrate response to the environm
Ketamine is a multimodal dissociative anesthetic and analgesic that is widely used after traumatic inj
Background and aims: There is a close relationship between psychosocial stress and the development
Many species are threatened with extinction, and captive breeding programs are becoming more con
Early life experiences affect the formation of neuronal networks, which can have a profound impact c
Background: Duchenne muscular dystrophy (DMD) is caused by the loss of dystrophin. Severe and ulti
Every day, millions of domestic cats are held temporarily in captive environments, such as boarding c
MAX is a conserved constitutive small phosphoprotein from a network of transcription factors that ar
1. Glucocorticoid steroid hormones play a central role in regulating the metabolic state of animals, esp
The secretory patterns of testosterone (T), androstenedione (A4), dehydroepiandrosterone (DHEA), c
Maternal care plays a crucial role for infant development. In humans, skin-to-skin care is often used f
Enzyme-linked immunosorbent assay (ELISA) kits are widely used to quantify corticosterone levels for
Local and systemic factors that influence renal structure and function in aging are not well understoo
Chronic or repeated stressor exposure can induce a number of maladaptive behavioral and physiolog
In the metabolic syndrome, glucocorticoid activity is increased, but circulating levels show little chang
Environmental pollution by metals has repercussions on wildlife health. It is known that some metals
During pregnancy, fetal glucose production is suppressed, with rapid activation immediately postpart

The deleterious effects of psychological stress on mainstream T lymphocytes are well documented. H
Stress is known to impede certain host defense mechanisms, including those governed by convention
Traumatic brain injury (TBI) affects 10 million people worldwide, annually. TBI is linked to increased ri
The monotreme adrenocortical response to stress may not rely as heavily on the hypothalamic-pituit
Among a multitude of stressors to which wildlife is exposed, environmental pollution is a pervasive or
Selective serotonin reuptake inhibitors (SSRIs) are widely used antidepressants, but the mechanisms l
Stress has been considered determinant in the etiology of depression. The adrenal medulla plays a ke
Although immunomodulatory property and many other pharmaceutical applications of scorpion veng

The endocannabinoid system plays a key role in the control of emotional responses to environmental stressors. Patients with chronic immune-mediated arthritis exhibit abnormal hypothalamo-pituitary-adrenal (HPA) axis activity. The typical practice of averaging group performance during extinction gives the impression that respiratory distress is a major driver of ecological and evolutionary processes in nature. To cope with environmental stress, organisms employ various physiological and behavioral strategies. Pharmacological treatments in laboratory rodents remain a cornerstone of preclinical psychopharmacology. Antenatal psychopathology negatively affects obstetric outcomes and exerts long-term consequences on offspring health. Scheggia et al. show that a specific subpopulation of cortical neurons expressing somatostatin in the prefrontal cortex is involved in stress regulation. Repetitive mild traumatic brain injury (mTBI) has been called the "signature injury" of military service members. For (metabolic) research models using mice, singly housing is widely used for practical purposes to study stress effects. Stress can drive adaptive changes to maintain survival during threatening stimuli. Chronic stress exposure alters metabolic profiles in the central nervous system (CNS). PCSK1 encodes an enzyme required for pro-hormone maturation into bioactive peptides. A strikingly high prevalence of Salmonella Enteritidis and Salmonella Typhimurium are commonly isolated during egg-related outbreaks. During development of the nervous system, molecular signals mediating cell-cell interactions play critical roles. Females are well known to suffer disproportionately more than males from stress-related neuropsychological disorders.

Sexual aggression can disrupt processes related to learning as females emerge from puberty into young adulthood. Piloerection (goosebumps) requires concerted actions of the hair follicle, the arrector pili muscle (APM), and the sympathetic nervous system. Adolescents who use marijuana are more likely to exhibit anxiety, depression, and other mood disorders. Glucocorticoids, a class of metabolic hormones, impact a wide range of traits (e.g., behavior, skeletal structure, and immune response). This study investigated the influence of chronic crowding stress on nitric oxide (NO) production, vascular function, and metabolic health. The influence of maternal high-fat diet (HFD) on metabolic response to ozone was examined in Long-Evans rats. BACKGROUND: Lead (Pb) exposure and prenatal stress (PS) during development are co-occurring risk factors for neurodevelopmental disorders. Epidemiological studies have reported associations of air pollution exposures with various neurodevelopmental outcomes. Developmental exposure to lead (Pb) and prenatal stress (PS) both impair cognition, which could derive from neuroinflammation. Immune defense is costly to maintain and deploy, and the optimal investment into immune defense is shaped by environmental conditions. Chronic intermittent ethanol vapor exposure (CIE) in rodents produces reliable and high blood ethanol concentrations. Alcohol dependence is linked to dysregulation of the hypothalamic-pituitary-adrenal axis. Here, we investigated the effects of CIE on HPA axis activity and stress responses. The transition from wakefulness to sleep requires striking alterations in brain activity, physiology, and behavior. Severe acute stressors are known to trigger mood disorders in humans. Sepsis represents one such stressor.

Mounting clinical and experimental evidence implicates various cytokines in stress-related affective and cognitive disorders. Altered fetal growth, which can occur due to environmental stressors during pregnancy, may program later-life health outcomes. OBJECTIVE: The aim of this study is to understand whether the responsiveness of the hypothalamic-pituitary-adrenal axis is altered in Parkinson's disease (PD). Parkinson's disease (PD) is a neurodegenerative disease characterized by loss of dopaminergic (DA) neurons. It is difficult to evaluate the pre-symptomatic state of mental disorders and prevent its onset. Since stressors often differ in their ability to cope with challenging environmental and social conditions. Environmental stressors often covary with physiological and behavioural traits to form an axis of integrated phenotypic plasticity. Theory suggests that signal honesty may be maintained by differential costs for high and low quality information. Physical exercise is one of the best interventions for improving traumatic brain injury (TBI) outcomes. Dietary restriction (DR) improves health, delays tissue aging, and elongates survival in flies and worms. Dendritic cells (DCs) sense environmental cues and adopt either an immune-stimulatory or regulatory phenotype. The level of stress that animals endure during capture, handling, transportation, and release processes is a major determinant of their health. Circadian, metabolic, and reproductive systems are inter-regulated. Excessive fatness and circadian disruption are associated with metabolic syndrome. Silymarin is a polyphenolic flavonoid of Silybum marianum, exhibited neuroprotection and antidepressant effects. Protocatechuic acid ethyl ester (PCA), a phenolic compound, exhibits neuroprotective effects through antioxidant activity. Amelioration of oxidative stress via promoting the endogenous antioxidant system and enhancement of mitochondrial function. Disruption of circadian glucocorticoid oscillations in Cushing's disease and chronic stress results in obesity. Ozone (O₃), a ubiquitous urban air pollutant, causes adverse pulmonary and extrapulmonary effects.

Although considerable inter-individual variability exists in health effects associated with air pollutant exposure, endogenous glucocorticoids modulate airway and lung inflammation in various respiratory diseases. Air pollution is associated with increased incidence of metabolic disease (e.g. metabolic syndrome, obesity). Recent epidemiological studies have demonstrated associations between air pollution and adverse effects on leptin, an adipokine secreted by white adipocytes, is known for its function in regulating food intake. Rationale: Exposure to early life stress (ELS) is known to have pronounced effects on the prefrontal cortex. Sleep is a fundamental biological process, that when repeatedly disrupted, can result in severe health consequences. Non-native species invasions are increasing across the globe and are affecting native species in many regions. Several epidemiological studies have reported an association between arsenic exposure and increased cancer risk. In many species, chronic stress due to overcrowding during the juvenile period triggers several metabolic changes. Early-life conditions can have substantial effects on the ways animals respond to stressors as adults. (1) Background: Protein stimulates the secretion of glucagon (GCG), which can affect glucose metabolism. The hypothalamic-pituitary-adrenal (HPA) axis forms a complex neuroendocrine system that regulates stress responses. Here, we investigate the impact of hypoxia on the hepatic response of glucocorticoid receptor (GR) to stress. Sepsis is a potentially lethal syndrome resulting from a maladaptive response to infection. Upon infection, stress can be experienced with or without adverse effects, of which anxiety and depression are two common outcomes. Research over the past few decades has established a role for the endocannabinoid system in contributing to stress responses. Acutely stressful experiences can have profound and persistent effects on phenotype. Across taxa, in

The disruptive effects of severe stress on reproductive function are well documented, but surprisingly, the mechanisms are not fully understood. Background: The opioid crisis has led to an increased number of pregnant opioid-dependent women. Glucocorticoids are often measured in wildlife to assess physiological responses to environmental or anthropogenic stressors. There are potential advantages for using noninvasive methods instead of conventional approaches for measuring stress hormones. BACKGROUND: Female reproductive tract development is sensitive to the endocrine-disrupting potential of environmental stressors. It is currently unclear whether early life stress (ELS) affects males and females differently. However, patients with anxiety disorders and posttraumatic stress disorder (PTSD) exhibit exaggerated fear responses.

The measurement of stress hormone (glucocorticoid [GC]) concentration is increasingly used to assess physiological stress. The American pika (*Ochotona princeps*) is considered a sentinel species for detecting ecological effects of climate change. The American pika (*Ochotona princeps*) is considered a sentinel species for detecting ecological effects of climate change. Measurement of stress hormone metabolites in fecal samples has become a common method to assess stress in wildlife. This study sought to analyze specific pathophysiological mechanisms involved in the progression of post-traumatic stress disorder (PTSD). Food deprivation or restriction causes animals to mount a stereotypical behavioral and physiological response. The emergency life-history stage (ELHS) can be divided into two subcategories that describe distinct, but related, life-history strategies. Harvesting of broilers is a stressful event, whether done mechanically or manually. The use of harvest stressors can affect broiler health and welfare. We propose a model involving the oral inoculation of *Echinococcus multilocularis* eggs in a vole species. Transmission of the zoonotic tapeworm, *Echinococcus multilocularis* mainly occurs between the red fox and voles. Social interactions among animals mediate essential behaviours, including mating, nurturing, and defense. In this study, a novel TRI (triple reuptake inhibitors) antidepressant candidate RO-05 (4-[1-[1-(benzoyl)ethyl]piperidin-4-yl]butan-1-ol) is evaluated. Restraint stress is a psychosocial stressor that suppresses reproductive status, including LH pulsatile secretion. Psychosocial stress, such as isolation and restraint, disrupts reproductive neuroendocrine activity. Hemorrhage is a major cause of bone loss in astronauts. Bone loss has been supposed to be the greatest damage to the health of astronauts. It is generally believed that bone loss is a major health concern for astronauts. Reproduction and environmental stressors are generally thought to be associated with a cost to the individual. Despite stress-associated disorders having a higher incidence rate in females, preclinical research mainly focuses on males. A growing body of evidence suggests that excess stress could aggravate tumor progression. The paraneoplastic syndrome of stress-induced hyperalgesia is a health-threatening condition that lacks effective therapeutic interventions. Modulation of the endocannabinoid system (ECS) is a novel putative target for therapeutic interventions. Exposure to chronic stress following stroke has been shown, both clinically and pre-clinically, to impair cognitive function. Secondary neurodegeneration (SND) is an insidious and progressive condition involving the death of neurons. Empirical and anecdotal evidence has associated stress with accelerated hair greying (formation of ur

Timing of food intake has become a critical factor in determining overall cardiometabolic health. We | Modern society enables a shortening of sleep times, yet long-term consequences of extended wakefu
Steroid hormones are synthesized through enzymatic reactions using cholesterol as the substrate. In :
The hypothalamic-pituitary-adrenal (HPA) axis and its end products, the glucocorticoids, are critical tc
Studies of the evolutionary causes and consequences of variation in circulating glucocorticoids (GCs) I
The complex interactions and overlapping symptoms of comorbid post-traumatic stress disorder (PTS
Spinocerebellar ataxia 1 (SCA1) is a devastating neurodegenerative disease associated with cerebellar
In waters off Peninsula Valdes (PV), Argentina, southern right whales (SRW, *Eubalaena australis*) are c
Glucocorticoids (GCs) and dehydroepiandrosterone (DHEA) are steroids secreted by the adrenal glanc

STUDY QUESTION: Do cortisol/glucocorticoid receptors play an active role in the human ovary during
The lack of progress in the psychopharmacological treatment of stress-related disorders such as PTSD
Although women and men are equally likely to receive ketamine following traumatic injury, little is kr
Both behavioral receptivity and neural sensitivity to acoustic mate attraction signals vary across the r
Preconception behaviors and experiences of mothers and fathers can affect future offspring. Recentl
The phenotypes observed in urban and rural environments are often distinct; however, it remains un
Assessment of influenza virus disease progression and efficacy of antiviral therapy in the widely used
Avian migration is a challenging life stage susceptible to the adverse effects of stressors, including cor
Comparisons of circulating and excreted corticosteroid profiles during a biological stress response col
The maternal gut microbiota can influence and be affected by the substantial physiological changes t
Environmental sex determination (ESD) is common among ectothermic vertebrates. The stress axis ar
Background: Heterogeneous landscapes like those of Laikipia County, Kenya consist of a mosaic of lan
Psychosocially-stressed individuals might have exacerbated responses to air pollution exposure. Acuti
Alzheimer's disease (AD) is characterized by amyloid beta (A beta) peptide aggregation and cholinergi
The spleen is a key participant in the pathophysiology of sepsis and inflammatory disease. Many spler
The histaminergic system plays an important role in memory and learning. Deficient histaminergic tra
Cholinergic neurotransmission regulates the immune response and inhibits cytokine release after strc

Chronic hepatitis C virus (HCV) infection is complicated by hepatic fibrosis. Hypothesizing that early fil
Pulmonary delivery has great potential for delivering biologics to the lung if the challenges of maintai
Background: Butyrylcholinesterase (BChE), an enzyme essential for drug metabolism, has been investi
Butyrylcholinesterase (BChE) is the most promising bioscavenger candidate to treat or prevent organ
Background Autonomic dysfunction has been implicated in the pathophysiology of the Sudden Infant

Pituitary-dependent hyperadrenocorticism (PDH) is mainly caused by pituitary corticotroph tumors in
The cortisol awakening response (CAR) is often assessed in the saliva and considered to be represent
Large flying foxes (*Pteropus vampyrus*) are a socially complex species. In situ colonies typically compr
Recent efforts have provided convincing evidence for the use of fish scale cortisol concentration in th
During follicular development, a few dominant follicles develop to large antral dominant follicles, wh
Context: Cortisol in blood has a robust circadian rhythm and exerts potent effects on energy balance t
Removal of oocytes from their natural inhibitory follicular environment results in spontaneous resum

Mesenchymal stem cells (MSCs) can differentiate into a number of cell types, including adipocytes and
Irradiated cells can induce biological effects on vicinal non-irradiated bystander cells, meanwhile the
OBJECTIVES: This study was conducted to clarify the effects of agarwood on histamine release from
Bacillus anthracis edema toxin (ET) consists of protective antigen (PA), necessary for host cell toxin uptake
The dopamine D2 receptor (D2R) negatively regulates inflammation in mouse renal proximal tubule cells
BACKGROUND: The calmodulin/calcium-activated K(+) channel KCa3.1 is expressed in red and white blood
B. anthracis edema toxin (ET) and lethal toxin (LT) are each composed of protective antigen (PA), necrosis
A critical step in mosquito reproduction is the ingestion of a blood meal from a vertebrate host. In mammals
Background and Purpose Caffeine is one of the most commonly used psychoactive substances. Circadian
Sarcolemmal CD36 facilitates myocardial fatty acid (FA) uptake, which is markedly reduced in CD36-deficient
It is important to understand the mechanisms that regulate macrophage activation to establish novel
Although edema toxin (ETx) and lethal toxin (LTx) contribute to Bacillus anthracis shock and lethality,
The purification of recombinant proteins has increased enormously in recent years with the intensive
Cadmium (Cd) has been reported to impair male fertility, primarily by disrupting sperm motility, but the
The factors that initiate human labor are poorly understood. We have tested the hypothesis that a decrease
We previously reported that at term pregnancy, a decline in myometrial protein kinase A (PKA) activity
alpha-Chlorohydrin is a common contaminant in food. Its (S)-isomer, (S)-alpha-chlorohydrin (SACH), is
Hexavalent chromium reportedly induces reproductive toxicity and further inhibits male fertility in mammals
In mammalian ovaries, the balance between dormancy and activation of primordial follicles determines
Context: Previous studies suggest that aging in women is associated with a reduction in hypoglycosylation
To fertilize the egg, sperm cells must reside in the female reproductive tract for several hours during
Salmonella enterica expresses two virulence-related type III secretion systems (T3SSs) encoded in Salmonella
The present study evaluated the interactive effects of temperature (16 degrees C and 24 degrees C) and
Background: The phosphodiesterase (PDE) 7 inhibitor S14 is a cell-permeable small heterocyclic molecule

Tanycytes play multiple roles in hypothalamic functions, including sensing peripheral nutrients and modulating
In human, the use of freshly recovered granulosa cells for experiments remains difficult. Because of this
A new series of selective PDE4D inhibitors has been designed and synthesized by replacing 3-methoxy
Phosphodiesterase type 4D (PDE4D) has been indicated as a promising target for treating neurodegenerative
Luteinizing hormone (LH) and chorionic gonadotropin (hCG) are glycoprotein hormones regulating ovarian
Autosomal dominant polycystic kidney disease (ADPKD) is characterized by abnormal proliferation of
Vasopressin (VP)-regulated aquaporin-2 (AQP2) trafficking between cytoplasmic vesicles and the plasma
Proteobacteria often co-ordinate responses to carbon sources using cAMP and the second messenger cAMP
The type III secretion systems (T3SS) encoded in pathogenicity islands SPI-1 and SPI-2 are key virulence
Nuclear and G-protein coupled receptors are considered major targets for drug discovery. FXR and GPCRs
The present study investigated possible adverse outcome pathways (AOPs) of the antidepressant fluoxetine
BACKGROUND: The multixenobiotic resistance system (MXR) allows aquatic organisms to cope with toxic
The epithelial cells lining the thick ascending limb (TAL) of the loop of Henle perform essential transport
We screened inhibitors in the adenylyl cyclase/protein kinase A/cAMP response element binding protein
To interact with the egg, the spermatozoon must undergo several biochemical and motility modifications
Introduction: Fetal alcohol spectrum disorder (FASD) is the main cause of preventable non-genetic mental
The kidney needs to adapt daily to variable dietary K+ contents via various mechanisms including diuresis
Because O blood group has been associated with more severe cholera infections, it has been hypothesized
Chlamydia trachomatis is an obligate intracellular bacterium that scavenges host metabolic products
Acute cAMP elevation inhibits myometrial contractility, but the mechanisms responsible are not fully
The *ahpC* (MSMEG_4891) gene encodes alkyl hydroperoxide reductase C in *Mycobacterium smegmatis*
Kidney toxicity is a major problem both in drug development and clinical settings. It is difficult to predict
The reproductive efficiency of Meishan pigs is higher than that of Duroc pigs, but the underlying molecular
Humans have dopamine D5 receptors (hD5R) with single-nucleotide polymorphisms and a diminished
The type III secretion system (T3SS) of *Edwardsiella tarda* is crucial for its intracellular survival and pathogenesis

Enterotoxigenic *Escherichia coli* (ETEC) is a leading cause of death due to diarrheal illness among young children in developing countries. Enterotoxigenic *Escherichia coli* (ETEC) strains are a common cause of diarrhea. Extraordinary antigenicity of ETEC strains is due to the presence of enterotoxins. We screened 2400 compounds to find novel inhibitors of the adenylyl cyclase (AC)-protein kinase A (PKA) signaling pathway. Peptidylarginine deiminases (PADs) are posttranslational modification enzymes that citrullinate (deiminate) proteins. Background: Experimental studies suggest a detrimental role for cyclic adenosine monophosphate (cAMP) in the development of HIV infection in the CNS. The H295R adrenocortical cell line is widely used for molecular analysis of adrenal functions but is known to have a defect in the dopamine D₂ receptor. Dopaminergic dysfunction has long been connected to the development of HIV infection in the CNS. Background: Interactions between adipocytes and macrophages are associated with metabolic disorders. Ethnopharmacological Relevance. Natural products, like Flaxseed (*Linum usitatissimum*), have traditional uses in the treatment of various ailments. Background and aims: Sphingosine-1 phosphate (S1P) is a lysosphingolipid present in the ovarian follicle. Elevated levels of amyloid beta (Aβ) peptide, hyperphosphorylation of tau protein, and inflammation are associated with Alzheimer's disease. The ever-growing prevalence of Type-2 diabetes in the world has an urgent need for multiple orally active treatments. Renal nerve stimulation at a low frequency (below 2 Hz) causes water and sodium reabsorption via aldosterone. OBJECTIVE: Only a limited proportion of patients needing pharmacological control of portal hypertension. The aim of the present study was to evaluate the possible gut inhibitory role of the phosphodiesterase 4 (PDE4) inhibitors. Background: Human luteinizing hormone (LH) and chorionic gonadotropin (hCG) are glycoprotein hormones. Cyclic adenosine monophosphate (cAMP) modulates synaptic plasticity and memory and manipulation of cAMP levels can be used to study these processes.

Background: An acute bout of exercise induces an inflammatory response characterized by increases in pro-inflammatory cytokines. Purpose: Follicle-stimulating hormone (FSH) and luteinizing hormone (LH) mediate intracellular functions through the cAMP/PKA pathway. Soluble adenylyl cyclase (sAC) is a HCO₃⁻-stimulated enzyme that produces the ubiquitous signalling molecule cAMP. Honey bees are of great economic and ecological importance, but are facing multiple stressors that can affect their health. Accumulating evidence from clinical and experimental studies indicates that the incretin glucagon-like peptide-1 (GLP-1) receptor agonists are effective in the treatment of Type 2 diabetes. Neuropathy is a major source of chronic pain that can be caused by mechanically or chemically induced injury. Icariin, a major component of *Epimedium* species, was evaluated using isoproterenol (ISO)-induced cardiac hypertrophy. The enterotoxigenic *Escherichia coli* (ETEC) are among the most common causes of diarrheal illness among young children in developing countries. Neuropeptides are small protein-like signaling molecules with diverse roles in regulating neural functions. Diabetes is a metabolic syndrome rooted in impaired insulin and/or glucagon secretory responses with associated complications. Uromodulin is produced in the thick ascending limb, but little is known about regulation of its excretion. We have shown that cystic fibrosis transmembrane conductance regulator (CFTR) is involved in ATP release from the thick ascending limb. Insulin-dependent type-1 diabetes (T1D) is driven by autoimmune beta-cell failure, whereas systemic hypertension is driven by increased sympathetic activity. The peripheral dopaminergic system plays a crucial role in blood pressure regulation through its action on the dopamine D₂ receptor. While increasing evidence posits poor decision-making as a central feature of mental disorders, very little is known about the underlying mechanisms. Metabotropic glutamate receptor 4 (mGluR4) possesses immune modulatory properties in vivo, such as in the regulation of cytokine production. Lung cancer remains a huge challenge to public health because of its high incidence and mortality, and the search for effective treatments is ongoing. *Edwardsiella tarda* is a Gram-negative enteric pathogen that causes hemorrhagic septicemia in fish and humans. Objectives: Amelogenin, the major component of the enamel matrix derivative (EMD), has been suggested as a potential treatment for periodontitis. Previously, we showed that *Ecklonia cava* polyphenol (ECP) treatment suppressed ethanol-induced liver damage. G-protein-signaling modulator 1 (GPSM1) exhibits strong genetic association with Type 2 diabetes (T2D). Background: Cyclic adenosine monophosphate (cAMP) is a ubiquitous second messenger that transduces extracellular signals into intracellular responses. The anabolic action of PTH in bone is mostly mediated by cAMP/PKA and Wnt-independent activation of the Wnt pathway. Osteoarthritis (OA) is a degenerative joint disease characterized by a progressive loss of articular cartilage. The type III secretion system (T3SS) plays a crucial role in the pathogenesis of many Gram-negative bacterial pathogens. The intracellular EscE protein tightly controls the secretion of the type III secretion system (T3SS) machinery. Increased adiposity due to energy imbalance is a critical factor of the epidemic crisis of obesity and type 2 diabetes. Enterotoxigenic *Escherichia coli* (ETEC) are a genetically diverse *E. coli* pathovar that share in the ability to cause diarrheal illness. Upon rupture of *Plasmodium falciparum* (*P. falciparum*) schizonts in vitro (an event known as egress), the parasite releases merozoites. The objective of this study was to compare the cAMP and cGMP levels in cumulus-oocyte complexes. The G-protein-coupled receptor (GPCR) regulated intracellular signaling pathway is known to be involved in the regulation of various cellular processes. Lipoic acid (LA) is a naturally occurring compound with beneficial effects on obesity. The aim of this study was to evaluate the effect of LA on the regulation of the cAMP/PKA pathway.

Background Psychological stress has been shown to impair gastric accommodation (GA), but its mech
Background: Microbial rhodopsins vary in their chemical properties, from light sensitive ion transport
Enzyme rhodopsins, including cyclase opsins (Cyclops) and rhodopsin phosphodiesterases (RhoPDEs),
Background: Myocardial infarction (MI) remains a major cause of morbidity and mortality worldwide.
Bronchopulmonary dysplasia (BPD) remains the most common and serious chronic lung disease of pr
The natriuretic peptide system, a key regulator of cGMP signaling, comprises three types of natriureti
Background Cell therapy is one of the most promising therapeutic interventions for retinitis pigmento
Abnormalities of MITO dynamics occur in HF and have been implicated in disease progression. This stu

Objectives Termination rates for the highly recommended aglepristone (AGL) treatment are low in lat
Changes in the C-reactive protein (CRP) and 13,14-dihydro-15-keto-prostaglandin F(2alpha) (PGFM) c
Cyclooxygenases (COX-1 and 2) catalyze the first step in prostanoid biosynthesis. They are implicated
The generation of effective type 1 T helper (Th1)-cell responses is required for immunity against intra
The efficacy of drugs used to treat cancer can be significantly attenuated by adaptive responses of ne
Pregnancy determination is difficult in the giant panda (*Ailuropoda melanoleuca*), representing a chal
The study was conducted to evaluate effects of intrauterine administration of proteolytic enzymes or
This study aimed to examine the etiology of canine dystocia by measuring the relative expression of c
Background We have previously reported that increased glucose levels were associated with higher se
Increased stiffness of large arteries in chronic kidney disease (CKD) has significant clinical implications
Doxorubicin (DOX) is an anthracycline antibiotic that exhibits high heart toxicity. Human-induced plur
Critical limb ischemia (CLI) is a severe type of peripheral artery disease (PAD) which occurs due to an i
Angiogenesis is a vital process that deals with the generation of new blood vessels from pre-existing v
Ischemic stroke accounts for about 87% of all strokes, causing long-term disability in adults, and is the
Nitric oxide (NO) is an endogenous bioregulator with established roles in diverse fields. The difficulty
Recent evidence suggests that high dose and/or long term use of proton pump inhibitors (PPIs) may i
There is a great deal of interest in the understanding of possible age-related changes in Mesenchyma
Hutchinson-Gilford progeria syndrome (HGPS) is a rare genetic disorder with features of accelerated :
Acute respiratory distress syndrome (ARDS) is a condition hallmarked by high permeability pulmonary
Objective: To examine the relationship between osteoarthritis (OA) and type 2 diabetes mellitus (DM)
Objective: Endothelial dysfunction and oxidative stress are among the most relevant mechanisms unc
Background: Anaphylaxis includes mast cell (MC) activation, but less is known about downstream mec
The process of angiogenesis, involving generation of new blood vessels from the existing ones, is vital
Lack of adequate blood supply to the limb extremities results in critical limb ischemia (CLI) and subsec
An adequate placental vascularization allows the proper development of the fetus and it is crucial for
Studies about Coenzyme Q10 (CoQ10) supplementation on strenuous exercise are scarce, especially t
Cisplatin is the alkylating anticancer drug. These drugs show many side-effects including the damage c
Background Observational studies suggest a potentially protective role of the Mediterranean diet (MD
The current investigation was conducted to examine kininase II or angiotensin converting enzyme (AC
Objective: Olive oil is the main fat source in the Mediterranean diet and shows a protective role again
Periosteum derived progenitor cells (PDPCs) represent promising mesenchymal stem cells (MSCs) for

Activated microglia and infiltrating lymphocytes are neuropathological hallmarks of amyotrophic late
Background-Little clinical research on new-generation heat-not-burn cigarettes (HNBC) in comparison

Cardiac stromal cells (CSCs) are the main players in fibrosis. Dysmetabolic conditions (metabolic syndi
Smoking is still a major cardiovascular risk factor, despite many public awareness campaigns and dedi
BACKGROUND: Acute kidney injury (AKI) is associated with a severe decline in kidney function caused
The objective of this experiment was to evaluate the effects of supplementing a rumen-protected so
Purpose. This study was performed to evaluate antifatigue effect of hydrogen water (HW) drinking in

Acute kidney injury (AKI) is a major risk factor for the development of chronic kidney disease (CKD). The transcription factor IRF5 has been implicated as a therapeutic target for the autoimmune disease Podocytes play an important role in maintaining glomerular function, and podocyte injury is a significant Gram-negative bacterial pneumonia is a common and dangerous infection with diminishing treatment Extracellular vesicles (EVs) derived from human bone marrow mesenchymal stromal cells (MSCs) provide Diet is a leading causative risk factor for morbidity and mortality worldwide, yet it is rarely considered The potential for sexually dimorphic innate immune responses to respiratory disease was evaluated, Acute kidney injury (AKI) causes severe morbidity, mortality, and chronic kidney disease (CKD). Mortality Huangqi decoction (HD) is a prescription for the treatment of diabetes in traditional Chinese medicine Systemic inflammation as manifested in sepsis is an excessive, life-threatening inflammatory response Chronic kidney disease (CKD) is one of the most common renal diseases manifested by gradual loss of Kidney fibrosis is one of the main pathological findings of progressive chronic kidney disease (CKD) after Chronic lithium treatment for bipolar disease causes mainly side effects in the kidney. A subset of lithium Mutations in Ankyrin repeat and sterile alpha motif domain containing 6 (ANKK6) play a causative role Background: Secondary dystroglycanopathies are a subset of muscular dystrophy caused by abnormal Acute kidney injury (AKI) is caused by drugs and other stimuli, which limits the use of several therapeutic Bacterial endotoxin has been known to induce excessive inflammatory responses and acute kidney injury Vesicating agents sulfur mustard (SM) and nitrogen mustard (NM) are reported to be easily absorbed Sarco/endoplasmic reticulum Ca²⁺-ATPase (SERCA) plays a central role in the pathogenesis of diabetes Fatigue is a common and serious health problem, and various dietary interventions have previously been Thymic stromal lymphopoietin (TSLP) is crucial for Th2-mediated inflammation. Sepsis is a serious systemic Purpose: We examined the effects of rapid restriction of food and fluid intake on the pathways of water Hypercoagulability is associated with chronic kidney disease (CKD). Tissue factor/factor VIIa complex Background and Purpose Purine metabolism in mice and human differ in terms of uricase (Uox) activity Background Hereditary renal hypouricemia type 1 (RHUC1) is caused by URAT1/SLC22A12 dysfunction Aside from kidney transplantation a procedure which is exceedingly dependent on donor-match and ; We propose the use of a peripheral blood mononuclear cell therapy based on cell NG2 release to be Senescent cells have deleterious effects on the tissue microenvironment through proinflammatory signaling Prolyl hydroxylase (PHD) inhibitors are being developed as alternatives to recombinant human erythropoietin End-stage kidney disease, the most advanced stage of chronic kidney disease (CKD), requires renal replacement Chronic kidney disease (CKD) results in the impaired filtration of metabolites, which may be toxic or harmful The fatigue spreads among the people who live under stressful life and brings about a negative impact OBJECTIVE: Hemodialysis access-related hand dysfunction is a common clinical feature of patients with Preclinical animal models of chronic kidney disease (CKD) are critical to investigate the underlying mechanisms Background: Innate immunity including macrophages (M phi) in lupus nephritis (LN) has been gaining Saliva can be used as an alternative diagnostic fluid enabling easy and non-invasive disease monitoring Nicotinamide adenine dinucleotide (NAD(+)) supplies energy for deoxidation and anti-inflammatory responses Chronic kidney disease (CKD) is strongly associated with increased cardiovascular risk. Impaired endothelial Epithelial-mesenchymal transition (EMT) contributes significantly to interstitial matrix deposition in diabetes Accumulating evidence has implicated that berberine (BBR) has a beneficial effect on diabetic kidney disease We evaluated the effects of supplementation with oral L-glutamine in Walker-256 tumor-bearing rats. This manuscript was sent to Joyce Bischoff, Guest Editor, for review by expert referees, editorial decision Our bodies turn over billions of cells daily via apoptosis and are in turn cleared by phagocytes via the In the present study, rat liver acellular scaffolds were used as biological support to guide the differentiation d-allulose is a rare sugar that has been reported to possess anti-hyperglycemic effects. In the present study Ectopic calcification is a risk of cardiovascular disease in chronic kidney disease (CKD) patients, and iron Aims: Endothelin (ET)-1 is the best known potent vasoconstrictor and has been implicated in pathogenesis Reducing antibiotic usage among livestock animals to prevent antimicrobial resistance has become an Fibrosis-driven solid organ failure is an enormous burden on global health. Spiny mice (Acomys) are the

Background Galectin-9 (Gal-9) is a multifunctional lectin that moderates inflammation and organ damage. Preemptive treatment with mesenchymal stem cells (MSCs) can attenuate cisplatin-induced acute kidney injury. Progressive tubulointerstitial fibrosis may occur after acute kidney injury due to persistent inflammation. Elevated ambient temperature causes heat stress in pigs, resulting in reduced animal performance. Toll-like receptor 4 (TLR4) and High-mobility group box 1 (HMGB1) undergoes acetylation, nuclear-to-cytoplasmic translocation, and phosphorylation. Background: Mesenchymal stromal cells (MSCs) and renal stem/progenitors improve the recovery of acute kidney injury. Background: Argininosuccinate synthase (ASS) 1 is a urea cycle enzyme that catalyzes the conversion of ornithine to arginine. This study examined the effect of feeding yeast cell wall (YCW) products on the metabolic responses of pigs. Available energy plays a critical role in the initiation and maintenance of an immune response to a pathogen. Elevated circulating uremic toxins are associated with a variety of symptoms and organ dysfunction in patients with chronic kidney disease. Amphiregulin (AREG) is a transmembrane glycoprotein recently implicated in kidney fibrosis. Previous studies have shown that apoptosis of renal tubular and glomerular cells during kidney disease involves activation of Fas ligand. Organ toxicity, including kidney injury, limits the use of cisplatin for the treatment of multiple human cancers. Feeding corn dried distillers grains with solubles (DDGS) in low crude protein (CP) diets could limit nitrogen utilization. Inflammation is central to heart failure progression. Innate immune signaling increases expression of toll-like receptors.

Renal ischemia/reperfusion (I/R) injury is a major clinical problem because it can cause acute kidney injury. Seventy-two piglets (6.0 kg BW) were randomly distributed within six different dietary treatments to evaluate the effects of a yeast supplement on immune responses. Chronic kidney disease (CKD) causes progressive skeletal myopathy involving atrophy, weakness, and muscle fiber splitting. Acute kidney injury (AKI) management remains mainly supportive as no specific therapeutic agents are available. Background: Plasma albumin (ALB) reflects protein nutritional status in rats, but it is not clear whether it is a sensitive marker. Background: Plasma albumin (ALB) redox state reflects protein nutritional status, but how it differs from total protein. Serotonin is known to regulate energy and calcium homeostasis in several mammalian species. The orexin system is involved in energy homeostasis. Uremic cardiomyopathy is responsible for high morbidity and mortality rates among patients with chronic kidney disease. Background: Uremic cardiomyopathy, characterized by left ventricular hypertrophy, diastolic dysfunction, and myocardial fibrosis. Two treatments were evaluated in heifers to determine the effects of a yeast supplement on immune responses. In an anti-glomerular basement membrane (GBM) glomerulonephritis (GN) model, GN-resistant Lewis rat strain was used. Aims: Podocyte apoptosis plays an important role in the pathogenesis of diabetic nephropathy (DN). A study was conducted to evaluate the effects of a yeast supplement on immune responses in a rat model of DN. Patients with chronic kidney disease (CKD) commonly exhibit hypercoagulability. Increased levels of uremic toxins are associated with hypercoagulability. Immunosuppressive myeloid cells in the tumor microenvironment (TME) inhibit T-cell-mediated immunity. For further research and application of Bioartificial liver systems (BAL), active proliferation capacity at the cellular level is important. Background: Despite major progress in stem cell therapy, our knowledge of the characteristics and tissue-specific functions of stem cells is limited. Macrophages hold great potential in cancer drug delivery because they can sense chemotactic cues and deliver drugs to the tumor site. Myeloid-derived suppressor cells (MDSCs) promote tumor-mediated immunosuppression and cancer progression. Background and objective: Long non-coding RNAs (lncRNAs) constitute a novel class of non-coding RNA that play a role in various biological processes. Objective: Diabetic nephropathy (DN) is a serious complication that commonly confronted by diabetic patients. For nearly five decades, cisplatin has played an important role as a standard chemotherapeutic agent for the treatment of various types of cancer. Cancer treatment-induced toxicities may restrict maximal effective dosing for treatment and cancer survival. Mesenchymal stem cells (MSC) have been experimentally used for kidney repair, but modest retention and engraftment are observed. Blubber and respiratory vapour ('blow') are now commonly used for endocrine studies on cetaceans, but the effects of these materials on the endocrine system are not well understood. Because of its high content of polyphenolic compounds, the dietary inclusion of grape pomace (GP) in pig diets may improve health and performance. This study determined whether feeding the immunomodulating supplement, OmniGen-AF, to feedlot pigs could improve immune responses. Exhaled breath analysis is a non-invasive assessment tool that has shown promise in human diagnosis and prognosis.

Multiple organ dysfunction syndrome (MODS) is a detrimental clinical complication in critically ill patients. The presence of endotoxin in blood can lead to acute kidney injury (AKI) and septic shock. Resolvins, 18-omega-ethyl eicosanoids, are bioactive lipids that play a role in resolving inflammation. The ability of the fungal pathogen *Candida albicans* to undergo a yeast-to-hypha transition is believed to be important for its pathogenicity. Current diagnostic methods of acute kidney injury (AKI) have limited sensitivity and specificity. Tissue injury markers are essential for the early diagnosis of AKI. Early and reliable markers of acute kidney injury (AKI) are essential. One such candidate marker of tissue injury is creatinine. Methotrexate (MTX) is widely employed for children with cancer, but is also associated with persistent kidney injury.

Acute kidney injury (AKI) incidence among hospitalized patients is increasing steadily. Despite progress, cytosolic proteins are required for regulation of NADPH (nicotinamide adenine dinucleotide phosphate). Dysregulation of multiple genes is an important risk factor for acute kidney injury (AKI). Numerous genes are associated with progressive loss of renal function: 1) decreased aquaporin-2 (AQP2); 2) natural cannabidiol ((-)-CBD) and its derivatives have increased interest for medicinal applications due to their anti-inflammatory and neuroprotective effects. Colorectal cancer (CRC) is one of the deadliest malignant tumors worldwide and its prevalence is increasing. Although cancer-therapy-related cardiac dysfunction (CTRCD) is a critical issue in clinical practice, the underlying mechanisms are not fully understood. Diabetic nephropathy (DN) is a serious complicating factor in human type 2 diabetes mellitus (T2DM). Pericytes are considered reparative mesenchymal stem cell-like cells, but their ability to ameliorate diabetic kidney disease is still unclear. Although reproduction in the domestic horse has been well described, less is known about reproductive physiology. Objective: Current study was conducted to determine the effect of postpartum prostaglandin F_{2α} (PGF_{2α}) on the reproductive performance of 13-lined ground squirrels (*Thomomys talpini*) are small, omnivorous, fossorial, hibernating mammals. The variation of gestation length in sows leads to difficulties performing farrowing supervision. The pig is a major source of zoonotic diseases. Arctic marine mammals are facing increasing levels of many anthropogenic stressors. Novel tools are being developed to study their reproductive biology. Female giant pandas show complex reproductive traits, being seasonally monoestrus, displaying a variable estrous cycle. The royal python (*Python regius*) is commonly bred in captivity. To have a successful breeding season, precise timing of mating is crucial. Background: Effective concentrations of antiretrovirals in the female genital tract (FGT) are critical for HIV prevention. Studies are progressively showing that vital physiological data may be contained in the respiratory variables. This study describes patterns of steroid hormone production and activity for banteng (*Bos javanicus*). Non-invasive stress and nutritional hormone analysis in relation to ecological and other biological indicators. Coyotes (*Canis latrans*) involved in depredation of livestock, an act frequently resulting in human-wildlife conflict. The tegu lizard *Salvator merianae* is a large, widely distributed teiid lizard endemic to South America. Translocator protein 18 kDa (TSPO) is now an attractive drug target for controlling neuroinflammation. Complications in upper and lower urinary function arise after spinal cord injury (SCI), which creates a complex clinical picture. Inhibitors of microsomal prostaglandin G/H synthase 1 (mPGES-1) are in the early phase of clinical development. Background: Arsenic exposure is associated with cardiovascular risk in adults; however, few epidemiological studies have been conducted. Deficits in upper and lower urinary tract function, which include detrusor overactivity, urinary incontinence, and nocturia. Ginger is known to have anti-inflammatory and antioxidative effects and has traditionally been used as a natural remedy. Tumor immunosuppression is a major cause of treatment failure and disease relapse, both in solid tumors and hematological malignancies. The cAMP signaling pathway has emerged as an important modulator of the pharmacological effects of many drugs. Background: [6]-Gingerol, a major component of *Zingiber officinale*, was previously reported to ameliorate tumor growth. Novel small molecule inhibitors of the oxytocin receptor (OTR) may have distinct pharmacology and neuroprotective effects. Background: Tumor necrosis factor (TNF)-α can upregulate the expression of plasminogen activator inhibitor-1 (PAI-1). Cancer cells aberrantly express mucins to enhance their survival. Relative chemoresistance of appendicitis. Rationale: Ventilator-induced diaphragm dysfunction (VIDD) increases morbidity and mortality in critically ill patients. A kinase-anchoring proteins (AKAPs) organize compartmentalized pools of protein kinase A (PKA) to regulate various cellular processes. Background: The study was designed to investigate the probable mechanisms of anti-hyperglycemic action of insulin. Multidrug resistance protein 4 (MRP4), a member of the ATP binding cassette transporter family, functions in drug efflux. Angiotensin (Ang)-(1-7) has cardiovascular protective effects and is the opponent of the often detrimental Ang-(1-7). Over-activated neutrophils produce enormous oxidative stress and play a key role in the development of various diseases. The development and maintenance of the correct morphology of sperm is important for their function. Astrocytes provide neuroprotective effects against degeneration of dopaminergic (DA) neurons and play a role in neuroinflammation. Epidemiological studies have demonstrated a close association of type 2 diabetes and hepatocellular carcinoma. We investigated the effects of alone/combined regular swimming exercise and sodium valproate on experimental diabetes. There is increasing interest in using sainfoin (*Onobrychis viciifolia*) to feed sheep, but it contains proanthocyanidins. Background: Adipose tissue-derived stem cells are considered to be a promising source in the field of regenerative medicine. Acute hypoxia increases the formation of reactive oxygen species (ROS) in the brain. However, the effects of hypoxia on brain function are still unclear. Although cell-free systems and immortalized cell lines have been used to demonstrate the potential of stem cells, primary cells are more relevant. Peptides from several plant food proteins not only maintain the nutritional values of the original proteins but also have various biological activities. The dysfunctional adipose tissue of rats fed a sucrose-rich diet was investigated following the time course.

Reproduction is a critical period for birds as they have to cope with many stressful events. One consequence is that the brain has high energy requirements to maintain neuronal activity. Consequently, impaired mitochondrial function can lead to oxidative stress. BACKGROUND: Preterm infants often receive mechanical ventilation and oxygen at birth. Exposure to hyperoxia can lead to alterations in the innate inflammatory response, which may underlie the pathophysiology of psychiatric disease. Perfluorooctane sulfonate (PFOS) is a fluorinated compound and a Persistent Organic Pollutant which we have previously reported to have in vitro hypocholesterolemic, anti-inflammatory, and antioxidant effects. We have also reported that oxidative stress is associated with the progression of chronic liver disease. Non-alcoholic fatty liver disease (NAFLD) Background: Chronic exposure to estradiol-17 beta (E2) in adult female rats increases mean arterial pressure. Sepsis is caused by infections associated with life-threatening multiple organ failure (MOF). Septic multiple organ failure (MOF) Oxidative stress is commonly observed in both idiopathic and genetic cases of Parkinson's disease (PD). Inflammation and oxidative stress (IOS) are considered key pathophysiological elements in the development of PD. Calcified marine organisms typically experience increased oxidative stress and changes in mineralization.

This study aimed to complete the scientific basis for the validation of a coffee silverskin extract (CSE). The aim of this study was to examine the anti-obesity effects of boiled tuna extract in C57BL/6N mice. Serious malnutrition problems occur in developing countries where people's diets are mainly based on staple crops. Introduction: This study investigates the alteration of the inflammatory/oxidative pathway in patients with obesity. The effects of hypoxia and perfluorooctane sulfonamide (PFOSA), given singly and also in combination, were evaluated. The likely involvement of inflammation and oxidative stress (IOS) in mental disease has led to advocacy for their treatment. BACKGROUND: Minocycline (MIN) is a tetracycline with antioxidant, anti-inflammatory, and neuroprotective properties. Tridax procumbens (TP) is a traditional Indian therapeutic plant and was evaluated for its blood glucose-lowering activity. The aim of the research was to evaluate the antioxidant activity of 23 LAB strains isolated from raw fermented foods. Decades of intensive genetic selection in commercial layers has resulted in earlier maturation, while selection for later maturation in broiler breeders has resulted in delayed maturation. The management of body weight (BW) in broiler breeder pullets is critical to offset the negative correlation between BW and egg production. Oviducts play an important role in the reproductive process, such as in gamete transport, fertilization, and embryonic development. Aldabra giant tortoises (*Aldabrachelys gigantea*) are currently listed as Vulnerable on the IUCN Red List. Understanding the cell-of-origin of ovarian high grade serous cancer (HGSC) is the prerequisite for effective treatment. Although the role of the Hippo signaling pathway in development and tumorigenesis has been extensively studied, its role in cancer progression remains unclear. We examined the effect of human chorionic gonadotropin (hCG) treatment 5 days after estrus on ovarian steroidogenesis in ovarian granulosa cells, which is regulated by the follicle-stimulating hormone (FSH) via the cAMP/PKA pathway. Research suggests that women's sexual psychology and behavior change across the ovulatory cycle, and that these changes are mediated by hormones. Fathers contribute substantially to infant care, yet the mechanisms facilitating paternal bonding and involvement remain unclear. As broiler breeders face increased reproductive challenges specifically related to overfeeding, a clear understanding of the underlying mechanisms is essential. This study investigated possible female-related causes for inconsistent success among reproductive pairs.

Objective. To determine the impact on antitumor activity when active hexose correlated compound (AHCC) is combined with chemotherapy. Sexual dichromatism is a well-studied form of sexual dimorphism and is evident in a variety of taxa. Genetic diversity is essential for the survival of a species. The interaction of the nervous, immune, and endocrine systems is crucial in maintaining homeostasis.

The ability to monitor the estrus cycle in wild and captive marine species is important for identifying reproductive status. Frailty syndrome is associated with poor outcomes, morbidity and premature mortality. We performed a study to identify the underlying mechanisms. Background: Accurate sex identification techniques are important for wildlife demographic studies and conservation. Reproductive monitoring for captive breeding in giant pandas is based on behavioural observation and hormone analysis. Rapid physiological colour change offers dynamic signalling opportunities that can reveal distinct information about an individual's physiological state.

Testosterone is strongly associated with the annual development of antlers in cervids, but endocrine disruption can affect antler growth.

While hormones such as testosterone are known to drive reproduction and sexually selected traits in Nuptial plumage colouration is seemingly favoured by females of avian species with regards to sexual Male mammals of seasonally reproducing species typically have annual testosterone (T) cycles, with T In most mammals, including humans, the postnatal acquisition of normal social and nonsocial behavior The physiological stress response is frequently gauged in animals, non-invasively, through measuring Microminipigs have become an attractive animal model for the toxicology- and pharmacology-related The phytoestrogen genistein (GEN) may interfere with permanent morphological changes in the brain Reptiles are highly susceptible to anthropogenic activities as a result of their narrow geographical range Background Low plasma testosterone, either spontaneous or as a result of androgen deprivation therapy N6-methyladenosine (m6A) is the most prevalent reversible RNA modification in the mammalian transcript Differences in reported testosterone concentrations in male sea turtle blood samples are common in Animals engage in social interactions with changes in their behaviour and physiology. Environmental Most of our knowledge on reproductive biology of gray whales dates back to scientific research conducted Sampling blood for endocrine analysis from some species may not be practical or ethical. Quantification

Biological rhythms in core body temperature (CBT) provide informative markers of adolescent development Many animals adjust the timing of seasonal events, such as reproduction, molt, migration, and hibernation Hibernation involves prolonged intervals of profound metabolic suppression periodically interrupted The short-beaked echidna (*Tachyglossus aculeatus*) is a monotreme endemic to Australia and New Guinea abstract In-situ and ex-situ Asian elephant populations are threatened with extinction, and male elephants This study investigated the relation of the fungiform taste papillae density and saliva composition with A simple treatment of UV light exposure can change the interfacial properties of variably doped GaN

Visual deficits are a common concern among subjects with head trauma. Stem cell therapies have gained Hepatic fibrosis is a chronic disorder caused by viral infection and/or metabolic, genetic and cholestatic Diet is a key factor for obesity development; however, limited data are available on dietary cluster analysis Modifying the composition of a sow's milk could be a strategy to improve the intestinal health and growth *Helicteres angustifolia* L. is a shrub that forms a common ingredient of several cancer treatment recipes Obesity is characterized by chronic systemic inflammation and enhances cancer metastasis and mortality Aim: Doxorubicin (DOX) induces dose-dependent cardiotoxicity due to reactive oxygen species (ROS)-induced In this study, we investigated the suppressive effects of radon inhalation against nephropathy in C57BL/6 This manuscript is focussed on the development of pentablock (PB) copolymer based sustained release Obesity is characterized by an excessive accumulation of fat in adipose tissue, which is associated with PURPOSE: To determine the ability of human neutrophils to kill multidrug-resistant *Acinetobacter baumannii* The growing economic interest in tench has led to the need for further information on the best slaughter To evaluate the in vivo immunomodulatory activity of the crude polysaccharide from *Helicteres angustifolia* Reactive oxygen species (ROS) are very harmful to dermal cells, and it is thus important to develop countermeasures Oxidative stress is a cause of inflammation related diseases, including cancers. Cholangiocarcinoma is

Biomarkers of oxidative stress have been widely used in environmental assessments to evaluate the extent of

Acetaminophen overdose is the most common cause of acute liver injury (ALI) or acute liver failure in humans We investigated the impact of increased alpha-linolenic acid (ALA) dietary levels on its plasma bioavailability Background. The efficacy of multivitamin/multimineral (MVM) supplementation continues to provoke controversy Quail and colleagues demonstrate that neutrophil-derived ROS and extracellular traps (NETs) mediate neutrophil Background. Sickness behavioral changes elicited by inflammation may become prolonged and dysfunctional Background-Experimental studies demonstrated that glutathione peroxidase 3 (GPx3), an antioxidant enzyme We assessed the effectiveness of a biofortified maize line (4BtxHC) which accumulates high levels of carotenoids Preeclampsia is a pregnancy-specific condition affecting 2-7% of women and a leading cause of perinatal

Although, titanium dioxide nanoparticles (TiO₂NPs) are nanomaterials commonly used in consumer products. Nitroalkane oxidase (NAO) and nitronate monooxygenase (NMO) are two different types of nitroalkane oxidase. Reactive oxygen species (ROS)-related mitochondrial dysfunction is considered to play a vital role in seed germination. We present an easy, durable method to generate a partially hydrophilic/hydrophobic poly(dimethylsiloxane) seed germination is comprehensively regulated by multiple intrinsic and extrinsic factors, and reactive oxygen species. The nuclear receptor peroxisome proliferator-activated receptor (PPAR)γ has been implicated in seed germination. Background Drought stress is one of the major factors limiting wheat production globally. Improving wheat yield is a major goal. Experimental studies showed that gut-derived lipopolysaccharide (LPS) is pro-atherogenic, however, intensive physical exercise may cause increase oxidative stress and muscular injury in elite football at the purpose of review. Modified risk products (MRP) are promoted as a safer alternative to traditional confectionery. Oxidative stress plays an important role in chronic respiratory diseases where the use of non-invasive silver nanoparticles (AgNPs) are commonly used nanomaterials in consumer products. Previous studies showed that thoracic aortic aneurysms (TAA) pathogenesis and progression include many mechanisms. The author hypothesized that vasoactive endothelin (ET) is generated by ET converting enzyme (ECE)-induced proteolytic processing of biglycan. Vasoactive endothelin (ET) is generated by ET converting enzyme (ECE)-induced proteolytic processing of biglycan. Hydrogen peroxide (H₂O₂) and oxidative stress have been suggested as possible instigators of both the pathogenesis and progression of the major polyphenols in green tea, (-)-epigallocatechin and (-)-epigallocatechin gallate, have been shown to inhibit. We conducted photocatalytic experiments focusing on the peptidoglycan layer to elucidate the details of the pathogenesis. Glomerular mesangial cell (GMC) proliferation and death are involved in the pathogenesis of glomerular disease. Background: Aging is an independent risk factor for cardiovascular diseases. The autophagy process is a central principle of life-history theory is that parents trade investment in reproduction against that of survival. Objectives Current human infant urine collection methods for the field are problematic for the research. Background: The menopause transition is associated with an increased risk of depressive symptoms. 1. BACKGROUND: The menopause transition is associated with an increased risk of depression. While the

ABSTRACT: Giant pandas are mono-estrus seasonal breeders, with the breeding season typically occurring in the winter. Background Women attempt to quit smoking less often than men and are less likely to maintain abstinence.

Objective: The etonogestrel (ENG) subdermal implant can cause frequent breakthrough bleeding in some women. BACKGROUND: An estimated 1.4 million persons in the United States identify as transgender or nonbinary. Purpose: Protein requirements are primarily studied in the context of resistance or endurance exercise. Pair-living and socially monogamous primates typically do not reproduce before dispersing. It is currently unclear whether estrus synchronization is important for optimal management of gilt reproduction in pig farms. Hormone aromatase inhibitors (AIs) effectively treat hormone receptor-positive postmenopausal breast cancer. Estrus synchronization is necessary for management of gilt reproduction in pig farms. It is usually achieved by

Aims Extra virgin olive oil lowers postprandial glycaemia. We investigated if oleuropein, a component of olive oil, improves glucose tolerance. Studies using central nervous system tissue obtained postmortem suggest pathways involved in energy metabolism. Leucine ingestion reportedly activates the mTOR pathway in skeletal muscle, contributing to a hypertrophic state. Background Fish encounter oxidative stress several times during their lifetime, and it has a pervasive impact on their health. In this study, mouse embryos were used to compare the effects of vitrification and slow freezing on the development of the embryo. Ergot alkaloids, a class of mycotoxins, induce vasoconstriction when consumed by animals and humans. Red alga dulse (*Palmaria* sp.) has xylan with a small amount of cellulose and less lignin, hence these carbohydrates are more digestible. Bilirubin acts as a potent endogenous antioxidant, with higher concentrations associated with lower risk of cardiovascular disease. The objective was to determine the effects of injectable vitamin E (VE) before or after transit on feed intake and growth. Diabetes mellitus is a chronic disease affecting the globe and its incidence is increasing pandemically. The objective of this work was to evaluate the effect of a bradykinin-potentiating factor (BPF) isolate on the growth of rats. BACKGROUND: Oxidative stress plays an essential role in the pathogenesis of type 2 diabetes. Anthocyanins

The objective of this study was to determine impacts on immune parameters, anti-oxidant capacity, and
Objective: The formation of reactive oxygen species (ROS) contributes to the pathogenesis and progression of
Free radical hypothesis which is one of the most acknowledged aging theories was developed into oxidative

Recently, kimchi has been recognized as a healthy food worldwide, prompting increased interest in it.
Moringa oleifera leaf (ML) is rich in vitamins and minerals, especially abundant calcium, therefore it is very
To determine the effect of different dietary Met sources on oxidative status, male Cobb 500 broiler chickens
The number of colon cancer cases is increasing worldwide, and type II diabetes patients have an increased
3D printed microneedle arrays were fabricated using a biocompatible resin through stereolithography.
The advancement of drug delivery devices is critical for the individualization of patient treatment and
Lactation is a highly demanding event in mammals, including buffaloes. It modulates the partitioning of
The physiological consequences of overstocking require more investigation, and no research has explored
Zea mays, the major storage protein from corn, has a GRAS (Generally Regarded as Safe) status and may be

Infant handling describes interactions between infants and non-maternal group members and is widespread
Humans have sung together for thousands of years. Today, regular participation in group singing is as
The neuropeptide oxytocin (OT) is associated with a plethora of social behaviors, and is a key topic at
Social cognition may facilitate fathers' sensitive caregiving behavior. We administered the Why-How
The receptor for advanced glycation end-products (RAGE) binds oxytocin (OT) and transports it from the
Intimate Partner Violence (IPV) has been linked to difficulties in socio-affective functions. Nevertheless
Background: Prior research demonstrates a protective role for oxytocin in ovarian cancer based on its
Social defeat is considered the most representative animal model for studying the consequences of social
Oxytocin has garnered much interest due to its role in affective states, social behaviors, and diverse processes
Oxytocin has become a popular analyte in behavioral endocrinology in recent years, due in part to its
Positive reinforcement training (PRT) is associated with increases in species-typical behavior and decreases
Evaluating how primates in human care function within their social environment is important for understanding
Alcohol use disorder (AUD) is a severe illness, for which we lack sufficient mechanistic understanding.
Oxytocin is a hormone of interest in reproduction, but also in the field of psychology and behavior, because
Introduction: Physical connection, particularly parent-to-infant touch, is critical for the well-being of infants
The relationship between dogs and their owners is characterized by an affective and enduring bond. In
Empathy is fundamental to human relations, but its neural substrates remain largely unknown. Here we
We examined associations between prenatal plasma oxytocin levels and depressive symptoms, stating that
The parenting brain may undergo remodeling that supports the adjustment to new parenthood. Prior
Oxytocin is involved in a broad array of social behaviours. While saliva has been used regularly to investigate
The influence of birth modality (scheduled cesarean or spontaneous vaginal) on the development of the
Domestication has altered dogs' conspecific social organization compared to their closest, non-domesticated
Dogs' increased human-directed sociability compared to wolves may be the result of increased oxytocin
Dogs are exceptionally well adapted to life close to humans, and alterations in their endocrine system
Oxytocin (OT) promotes pro-sociality, bonding, and cooperation in a variety of species. Measuring oxytocin
Micronuclei are constantly considered as a marker of genome instability and very recently found to be
Polybrominated diphenyl ethers (PBDEs) are ubiquitous persistent organic pollutants (POPs) that are
Background: Persistent pulmonary hypertension of the newborn (PPHN) is due to a failure of pulmonary
To date, it has been difficult to establish reliable biomarkers associated with specific forms of psychopathology
Filtration through the kidney eliminates toxins, manages electrolyte balance, and controls water homeostasis
Background: Maternal milk production requires the neuropeptide oxytocin. Individual variation in oxytocin
OBJECTIVE: To compare the effects of 7.2% hypertonic and 0.9% isotonic saline (sodium chloride) solution
Light at night (LAN) negatively impacts the behaviour and physiology; however, very little is known about
Hypothalamic expression of the thyroid hormone (TH) responsive gonadostimulatory (eya3, cga, tsh) genes
Iodine-containing formulations have been widely used to treat iodine deficiency and as antiseptics. Le

Food availability affects metabolism and reproduction in higher vertebrates including birds. This study
How varying levels of human activity, such as proximity and size of the nearest market (i.e., market gr
OBJECTIVE To determine effects of transforming growth factor (TGF)-beta and interleukin (IL)-1 beta on
Although concern remains about the athero-thrombotic risk posed by cyclo-oxygenase (COX)-2-select
Many studies seek to explore the impact of extrinsic soluble factors present in serum, interstitial fluid
Dendritic cells (DC) have the potential to instigate a tumour-specific immune response, but their abili
Mechanical and metabolic stimuli within contracting skeletal muscles reflexly increase sympathetic n

Unilateral ureteral obstruction (UUO) is associated with increased hydrostatic pressure, inflammation
Objective: Pain and range of motion loss are the main clinical features of osteoarthritis (OA). Hyaluro
Background: Myalgic encephalomyelitis (ME) is a complex and debilitating disease that often initially p
Analgesics which affect prostaglandin (PG) pathways are used by most pregnant women. As germ cell
Previous studies have investigated the relevance and structure-activity relationships (SARs) of pyrazol
Diets rich in fruits and vegetables may reduce oxidative stress (OxS) and inflammation via several me
Formononetin is a bioactive non-steroidal polyphenol found in a variety of plants. In this study we ev
Skeletal muscle health has been shown to benefit from regular consumption of cyclooxygenase (COX)
Several studies have shown that xanthenes obtained from *Garcinia Mangostana* (GM) have remarkab
We developed S (+)-flurbiprofen plaster (SFPP), a novel NSAID patch containing S (+)-flurbiprofen (SFF
Cyclooxygenase-2 (COX-2) derived-prostanoids participate in the altered vascular function and mecha
Endometriosis is an incurable gynecological disorder characterized by debilitating pain and the establi
Starchy diets can induce hindgut dysbiosis in horses. The present study evaluated the impact of a yea
Background Astrocytes are the predominant glial cell type in the central nervous system (CNS) that ca
Denatonium benzoate (DB) is an agonist of bitter taste receptors (TAS2Rs). TAS2Rs are detected in m
Much in vivo evidence indicates that cyclooxygenase-2 (COX-2) is deeply involved in tumorigenesis. A
This study determined the ability of an oral nutraceutical supplement to attenuate the oxidative stres
The aim of this study was to design and evaluate novel cyclodextrin (CD)-based aggregate formulatio
Exercise is a physiological stress resulting in reactive oxygen species and inflammatory mediators, the
Background: 4-methoxycinnamyl p-coumarate (MCC) was isolated from rhizomes of *Etingera paviean*
Mammalian reproductive function is controlled by the hypothalamic-pituitary-gonadal (HPG) axis, wh
Sickness responses to lipopolysaccharide (LPS) were examined in mice with deletion of the interleukin
Autism spectrum disorders (ASD) are severe heterogeneous neurodevelopmental disorders character
Oral and gut Bacteroidetes produce unique classes of serine-glycine lipodipeptides and glycine amino
Given that neuronal degeneration in Alzheimer's disease (AD) is caused by the combination of multipl
Prostaglandin (PG) E-2 has been linked to increased inflammation and attenuated resistance exercise
Mesenchymal stem/stromal cell (MSC)-based therapies have been proposed for back pain and discde
Although edible insect migratory locusts are considered sustainable food resources with proteins and
Skimmianine is a furoquinoline alkaloid which is found in the *Zanthoxylum* genus and also in other pl
Artemether, a lipid-soluble derivative of artemisinin has been reported to possess anti-inflammatory
Several studies have demonstrated the effectiveness of plant extracts against various diseases, espec

Polyphenols are the major components of many traditional herbal remedies, which exhibit several be
Stem cell therapy has emerged as a promising new area in regenerative medicine allowing the recove
The neuron-specific tyrosine phosphatase striatal-enriched phosphatase (STEP) is emerging as a key n
The neuron-specific tyrosine phosphatase STEP is emerging as a key neuroprotectant against acute is
Although aspirin is one of the most common anti-inflammatory drugs in the world, the effect of aspiri
Antiepileptic drug therapy has significant inter-patient variability in response towards it. The current
Prostaglandin E-2 (PGE(2)), a physiologically active lipid compound, is increased in several diseases ch
Background: Systemic sclerosis (SSc) is a severe autoimmune disease for which mesenchymal stromal

PurposeThe pathomechanism of annulus fibrosus (AF) failure is still unknown. We hypothesise that in neurodegenerative diseases, such as Alzheimer's disease, Huntington's disease, Parkinson's disease phenolic compounds of red wine powder (RWP) extracted from the Italian red wine Aglianico del Vulture. Pistacia lentiscus shows a long range of biological activities, and it has been used in traditional medicine. Andrographis paniculata (Burm.f.) Wall. ex Nees (Acanthaceae) has been used traditionally for the treatment of various ailments.

Microsomal prostaglandin E synthase-1 (mPGES-1) is an inducible enzyme of the cyclooxygenase (COX) family. High mobility group box 1 (HMGB1) interacts with pattern-recognition receptors of immune cells to mediate inflammation. Trans-4-methoxycinnamaldehyde (MCD) was isolated from the rhizomes of Etlingera pavieana (Pierre). Intervertebral disc (IVD) degeneration is one of the most common causes of low back pain (LBP), the leading cause of disability worldwide. Hydroxycitrate (HCA), a main organic acid component of the fruit rind of Garcinia cambogia, is a natural product. Thymoquinone is a known inhibitor of neuroinflammation. However, the mechanism(s) involved in its neuroprotective effects are not clear. We tested the efficacy of novel cyclooxygenase 2 (COX-2) inhibitors in counteracting glia-driven neuroinflammation. Postmenopausal women are at an increased risk for intervertebral disc degeneration, possibly due to hormonal changes. Invariant natural killer T (iNKT) cells are innate T lymphocytes that promote host defense against a variety of pathogens. Status epilepticus (SE) in humans is characterized by prolonged convulsive seizures that are generalized tonic-clonic seizures. Objective: The objective of this study was to identify the signaling pathway that is immediately triggered by lipopolysaccharide (LPS) in macrophages. Felids show different reproductive strategies related to the luteal phase. Domestic cats exhibit a seasonal breeding pattern. Background: To date, paediatric thyroid cancer has been the most severe health consequence of the Chernobyl nuclear disaster. We previously reported that maternal protein restriction (LP) during pregnancy increases salt sensitivity of the cardiovascular system. The use of corticosteroids and their metabolites as a physiologic measure of stress in wildlife species is common. Simple Summary: Our ability to measure and understand chronic stress in animals is limited by animal welfare concerns.

Ornaments can evolve to reveal individual quality when their production/maintenance costs make them costly. The island fox (Urocyon littoralis) is native to 6 of the 8 Channel Islands of California, USA. The species is endangered. Conservation biologists can use hormone measurements to assess animals' welfare, reproductive status, and health. Endocrine-disrupting chemicals are assessed based on their physiological potential and their potential to disrupt the endocrine system. Background: Breastfeeding and postpartum contraception critically influence infant and maternal health. Poor patient adherence to oral contraceptives is the predominant cause of failure of these therapies. To identify biomarkers of hormonal contraceptive (HC) use in urine and saliva, we conducted a pilot study. Osteopontin (OPN) was initially described as a protein involved in bone metabolism, but the roles played by OPN in other tissues are not clear. BACKGROUND: The study was undertaken to evaluate the effect of 6-week supplementation with a diet rich in omega-3 fatty acids. Background: Oxidative stress may be a key player in COVID-19 pathogenesis due to its significant role in tissue damage. Arsenic (As) is broadly distributed due to natural and anthropogenic sources, and it may cause adverse health effects. Non-alcoholic fatty liver disease (NAFLD) is characterised by an excess of hepatic fat that can progress to liver cirrhosis. Background: Inflammation with leukocyte activation is a hallmark of cancer-associated thrombosis (CAT). CRF is the main activator of the hypothalamic-pituitary-adrenal (HPA) axis in response to stress. CRF receptors are widely distributed in the brain. Neurosteroids are both endogenous and exogenous steroids that rapidly alter neuronal excitability through their actions on GABA_A receptors. Exposure to stress contributes to ethanol consumption in humans, but it produces inconsistent effects on alcohol intake. Autism spectrum disorder (ASD) is a neurodevelopmental disorder with core symptoms of social impairment and restricted interests. Allopregnanolone (ALLO) is a neurosteroid produced in the brain, but so far, no study has explored its role in stress response. Postpartum depression (PPD) is a severe psychiatric disorder with devastating consequences on child development. Multiple sclerosis (MS) is a severe autoimmune disease characterized by inflammatory, demyelinating lesions in the central nervous system. The 18 kDa translocator protein (TSPO) is a five transmembrane domain protein that plays a crucial role in mitochondrial function. Translocator protein 18 kDa (TSPO) is mainly distributed in the outer mitochondrial membrane of steroid-producing cells. Background: Fast-acting and cognitive-enhancing antidepressants are desperately needed. Activation of the HPA axis is a key component of the stress response. Recent research has implicated allopregnanolone (ALLO), a neuroactive steroid and metabolite of progesterone, in the regulation of the HPA axis. Caffeine is the main treatment for apnoea in preterm neonates, but its interactions with other respiratory stimulants are not clear. Background: Koumine is the most abundant alkaloid extracted from Gelsemium elegans Benth. Preliminary studies have shown that koumine has anxiolytic effects. Anxiety disorders are the most prevalent group of mental disorders globally, leading to considerable personal and societal burden.

The translocator protein (TSPO), once known as peripheral-type benzodiazepine receptor, was reported to be closely related to regulation of immune/inflammatory responses. The present study aimed to examine the molecular and cellular mechanisms underlying the antidepressant effects of progesterone and its neuroactive metabolite, allopregnanolone, on cognitive decline with age. Multiple factors have been linked to neurodevelopmental disorders, including disruptions to neurodevelopment. Cognitive decline with age is a harmful process that can reduce quality of life. Multiple factors have been linked to neurodevelopmental disorders, including disruptions to neurodevelopment. Progesterone and its neuroactive metabolite, allopregnanolone, have been shown to have cognitive effects. Background: Data on bone health and renal impairment in people with human immunodeficiency virus (HIV) are limited. The current pilot study tested a twofold hypothesis: some nutrition-related chemical mechanisms may be involved. In recent years, the increased use of rhodium (Rh) as an active catalyst material in modern three-way catalytic converters has raised concerns. Background: Biomarkers of micronutrient status are needed to best define deficiencies and excesses. BACKGROUND: We evaluated urine free light chains (FLC) as a potential biomarker for acute kidney injury. Background: Androgen deficiency affects men in the adulthood, causing several harmful effects at the cellular level. Experimental evidence suggests that nitric oxide (NO) and hydrogen sulfide (H₂S) signaling pathways

Intraneuronal accumulation of hyperphosphorylated tau is a pathological hallmark of several neurodegenerative diseases. Background: The green algae *Chlamydomonas reinhardtii* and *Volvox carteri* are important models for studying the ability to detect and respond to acute oxygen (O₂) shortages, which is indispensable to aerobic life. The larval environment of holometabolous insects determines many adult life history traits including, survival, fecundity, and lifespan. BACKGROUND: A number of cellular processes have evolved in metazoans that increase the proteomic complexity. Detection of intracellular DNA by the cGAS-STING pathway activates a type I interferon-mediated innate immune response. PURPOSE: Immune checkpoint inhibitors (ICIs) alone or in combination with chemotherapy can improve clinical outcomes in cancer patients. Cyclic GMP-AMP synthase (cGAS) is a DNA sensor and responsible for inducing an antitumor immune response. Protection of stalled replication forks is crucial for cells to respond to replication stress and maintain genomic stability. There is significant disease heterogeneity among mouse strains infected with the helminth *Schistosoma mansoni*. Schistosomiasis, which is caused by infection with *Schistosoma* spp., is characterized by granuloma formation. Enhancing chemosensitivity is one of the largest unmet medical needs in cancer therapy. Cyclic GMP-AMP synthase (cGAS), as the major DNA sensor, initiates DNA-stimulated innate immune responses. The DNA sensor cyclic GMP-AMP synthase (cGAS) is important for antiviral and anti-tumor immunity. G-quadruplexes (G4s) are non-canonical nucleic acid structures involved in fundamental biological processes. Micronuclei are aberrant nuclear compartments that can form as a result of chromosome mis-segregation. Cyclic dinucleotides (CDNs) are second messengers conserved across all three domains of life. Within the cGAS-STING pathway, cyclic GMP-AMP synthase (cGAS), a cytosolic DNA sensor, acts as a nucleotidyl transferase that catalyzes the synthesis of cyclic GMP-AMP. Background: Obesity is becoming a global epidemic and reversing the pathological processes underlying it is a major public health challenge. Oligonucleotide-based therapeutics have the capacity to engage with nucleic acid immune sensors to modulate innate immunity. cGAS is an intracellular innate immune sensor that detects double-stranded DNA. The presence of bacterial DNA in the cytosol is a signal for innate immunity. Virus infection modulates both host immunity and host genomic stability. Poly(ADP-ribose) polymerase (PARP) is a nuclear enzyme involved in DNA repair. *Pseudomonas aeruginosa* (PA) is known as one kind of extracellular pathogens. However, more evidence is needed to understand its pathogenesis. Cyclic GMP-AMP synthase (cGAS) recognition of cytosolic DNA is critical for the immune response to viral infections. A fundamental strategy of eukaryotic antiviral immunity involves the cGAS enzyme, which synthesizes cyclic GMP-AMP. Cyclic GMP-AMP synthase (cGAS) is a pattern recognition receptor critical for the innate immune response to viral infections. BACKGROUND: Fatty acid metabolism in the hypothalamus has an important role in food intake, but its mechanisms are unclear. Multiple organ dysfunction syndrome (MODS) induced by sepsis often involves kidney injury. Extracellular histones released from dying cells contribute to MODS. Chromium (Cr) is a common environmental pollutant that has wide-ranging toxic manifestations. Fagocytosis is a cellular process that involves the engulfment of particles. Myocardial disorders are the most common cause of renal failure and mortality in diabetic patients, but the underlying mechanisms are unclear.

Reduced kidney mass and/or function may result in multiple metabolic derangements, including insulin resistance and hyperlipidemia. Src family kinases (SFKs) have been implicated in the pathogenesis of kidney fibrosis. However, the specific mechanisms are unclear. Chronic kidney disease (CKD) poses a considerable medical and public health challenge, and the Dahl salt-sensitive rat is a model for CKD. Cellular repressor of E1A-stimulated genes 1 (CREG1) is a secreted glycoprotein that accelerates p16^{INK4} expression. Background/Aims: SIRT1 activation promotes the resistance of renal tubular cells to oxidative stress, and

Chronic kidney disease (CKD) has become epidemic worldwide. Mitochondrial reactive oxygen species
Chronic kidney disease (CKD) is defined as the progressive loss of renal function often involving glomerular
Diabetic nephropathy (DN) is among the most lethal complications that occur in type 1 and type 2 diabetes
Acute kidney injury (AKI) is a common problem in hospitalized patients that enhances morbidity and mortality
Diabetic nephropathy is the leading cause of end-stage renal disease worldwide, but no effective therapies
The two primary mechanisms by which iodinated contrast media (CM) causes contrast-induced acute kidney
Obesity and dyslipidemia can be associated with cellular senescence, and may impair kidney function
INTRODUCTION: Obesity is a health burden that impairs cellular processes. Mesenchymal stem/stromal
Proteinuria is a risk factor for and consequence of kidney injury. Angiotensin II type 2 receptor (AT₂R)
The repair mechanism after ischemic acute kidney injury (AKI) involves complex immunologic processes
Intra bone marrow-bone marrow transplantation (IBM- BMT) + thymus transplantation (TT) has been
Background High-IgA ddY (HIGA) mice, an animal model of human IgA nephropathy (IgAN), spontaneously
In diabetes, some of the cellular changes are similar to aging. We hypothesized that hyperglycemia accelerates
Renal interstitial fibrosis is characterized by the development of myofibroblasts, originating from resident
BACKGROUND: Fullerenes are molecules being investigated for a wide range of therapeutic applications
Acute kidney injury (AKI) is a major clinical concern in sickle cell disease (SCD). Clinical evidence suggests
Artesunate is a semi-synthetic derivative of artemisinin used to treat malaria, and has been shown to
AIMS: The present study examined the renoprotective effect of human umbilical cord blood-derived mesenchymal
Two common variants in the gene encoding complement factor H (CFH), the Y402H substitution (rs1044396)
Maximising the use of preclinical murine models of progressive kidney disease as test beds for therapies
Oxidative stress and mitochondrial dysfunction exacerbate acute kidney injury (AKI), but their role in disease
The impact of coronary artery stenosis (CAS) on renal injury is unknown. Here we tested whether the
Acute kidney injury (AKI) most commonly appears in critically ill patients in hospitals. AKI is characterized
Acute kidney injury (AKI), which is defined as a rapid decline of renal function, becomes common and
Chronic allograft dysfunction with progressive fibrosis of unknown cause remains a major issue after
Aim: We have previously shown that lithium treatment immediately after hypoxia-ischemia (HI) in neonatal
Polarized vesicle transport plays an important role in cell polarization, but the mechanisms underlying
Cisplatin is a potent chemotherapeutic agent. However, its clinical usage is restricted by serious adverse
TIGIT is a recently identified coinhibitory receptor that is upregulated in the setting of cancer and functions
Novel therapies are needed to address the increasing prevalence of chronic kidney disease. Mesenchymal
Cranial radiotherapy in children typically causes delayed and progressive cognitive dysfunction and thus
To test the hypothesis that intrinsic renal scattered tubular cells (STC-like cells) contribute to repairing
Cellular senescence, a permanent arrest of cell proliferation, is characterized by a senescence-associated
Rationale: Glomerular capillaries are lined with a highly specialized fenestrated endothelium and contribute
Purpose: Efficacy of exercise to improve renal health and filtration remains understudied in adults with
Extracellular DNA (ecDNA) in plasma is a non-specific biomarker of tissue damage. Urinary ecDNA, especially
BACKGROUND: Sarcopenia progresses in chronic kidney disease (CKD) and is positively correlated with
Plasma creatinine and urea are commonly used markers of kidney function in both acute and chronic
Objective. The hygiene hypothesis suggests that parasitic helminths (worms) protect against the development
Alternatives to blood for use in transfusion medicine have been investigated for decades. An ideal alternative
Simple Summary It has been documented in several species that blood levels of the hormone, anti-Müllerian
To clarify the role of oestrogen signalling and the role of oestrogen receptor alpha (ER α) in the cough
Using genetically engineered mice lacking estrogen receptor- α non-nuclear signaling, this study demonstrates
The newly discovered Trio high-fecundity allele produces multiple ovulations in cattle. This study evaluates
Estradiol-17 beta (E2) and progesterone (P4) regulate oviductal functions, providing a suitable environment
Extremes in body condition reduce fertility and overall productivity in beef cattle herds, due in part to

The gonadotropin compound, PG600, is used to induce estrus in prepubertal gilts, but responses can vary
Oxytocin (OT)/vasopressin (VP) signaling system is important to the regulation of metabolism, osmotic

Androgen receptor (AR) is expressed in both the prostate epithelium and the prostate stroma and pla

Objectives were to determine the effects of a dose of PGF(2 alpha) administered 2 days before timed

Cyclosporine A (CyA) is an immunosuppressive agent that induces nephrotoxicity with long-term treat

Simple Summary The widely spread microplastic component and endocrine disruptor BPA is a hazard

BPA is an oestrogenic endocrine disrupting chemical compound. Exposure to BPA in as early as pregn

Cattle induced to ovulate a small, physiologically immature preovulatory follicle had reduced oocyte c

Background: Asthma severity differs according to gender; in adult women, there is higher prevalence

Artificial lighting is used to control growth and reproduction. Lighting protocols are defined by the qu

We investigated the effects of vitamin B(1) deficiency on the meiosis maturation of oocytes. Female C

Background Sp1, an important transcription factor, is involved in the progression of various cancers. C

The aim of the present study was to determine the recovery of embryonic structures (ova/embryos) a

Thioredoxins (Trxs), key components of cellular redox regulation, act by controlling the redox status c

DJ-1 mutations are associated to early-onset Parkinson's disease and accounts for about 1-2% of the p

The acute toxicity of organic tin compounds (OTCs) has been studied in detail. However, due to their i

Harmful reactive oxygen species (ROS) produced during metabolism and immune responses are neut

Redox imbalance, mitochondrial dysfunction, and inflammation play a major role in the pathophysiolo

Friedreich's ataxia (FRDA) is the most frequent autosomal recessive ataxia in western countries, with

Lead is a highly poisonous metal with a very long half-life, distributing throughout the body in blood a

Antioxidant defense has an important role in the protection of organisms against oxidative stress cau

Antioxidants and telomere length are potential biomarkers for individuals' exposure and ability to co

Zooplankton channels energy and various inorganic and organic substances from primary production

Elephant camps are among the most popular destinations in Thailand for tourists from many countrie

Declining wild populations combined with accumulating captive populations of e.g. livestock, pets, dr

Simple Summary How tourist camp activities affect individual elephant welfare is an important and hig

Although social behaviour is common in group-living mammals, our understanding of its mechanisms

A recent large-scale welfare study in North America involving 106 Asian (*Elephas maximus*) and 131 A

To gain more knowledge about the influence of hormone regulation on follicle development, ovarian

OBJECTIVE To characterize physical examination, plasma biochemical, and ultrasonographic findings in

Simple Summary Understanding the reproductive biology of a species is critical for the development c

Contaminants of emerging concern (CECs) are ubiquitous throughout aquatic environments. Previous

Additional measures of well-being would be beneficial to the management of a variety of species in h

Conservation strategies for crocodylians often include captive breeding to create stable assurance pop

BACKGROUND: Dehydroepiandrosterone-sulfate is the most abundant circulating androgen in human

As studies quantifying steroid hormones in marine mammal blubber progress, methodological refin

Obtaining endocrine data from alternative sample types such as baleen and other keratinized tissues

Multiple factors can influence the immune response of ectothermic vertebrates, including body temp

Social relationships have physiological impacts. Here, we investigate whether loss of the mother/offsp

Many zoo elephants do not cycle normally, and for African elephants, it is often associated with hype

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