

ACTIVE PROTOCOLS - 2022

Intramuscular Implants of Acellular and Cellular Biomaterials

ANIMAL HANDLING AND TECHNIQUES

STUDY OF FOODBORNE BACTERIAL PATHOGENESIS IN LABORATORY ANIMALS

PRODUCTION OF GENE-EDITED RATS

PRODUCTION OF GENE DEFICIENT MICE

AUTONOMIC CONTROL OF FEEDING IN NEUROTROPHIN KNOCKOUTS

BIOLOGY 56500 - IMMUNOLOGY LAB

ANSC 301 - ANIMAL GROWTH, DEVELOPMENT, AND EVALUATION

STRESS RESPONSE AND DISEASE RESISTANCE IN FARMED FISH

DETERMINATION OF ILEAL DIGESTIBLE ENERGY AND AMINO ACID RESPONSES OF BROILER CHICKENS AND DUCKS TO DIET SUPPLEMENTATION WITH AMYLASE, PROTEASE, AND XYLANASE

VENA CAVA FILTER IMPLANTS

STUDIES OF HOW PROTEIN AGGREGATION CAUSES THE DEATH OF PRIMARY NEURONS AND OF HOW THIS CELL DEATH IS SLOWED BY NEUROPROTECTIVE FACTORS

CHOROID PLEXUS AS A TARGET IN METAL-INDUCED NEUROTOXICITIES

ANALYSIS OF BLOOD, URINE, AND BLADDER TISSUE FROM PET DOGS TO ADVANCE THE UNDERSTANDING OF URINARY BLADDER CANCER
CELL CULTURE OF BLOOD-CSF BARRIER
SMALL ANIMAL MEDICINE EMERGENCY PROCEDURES WET LABORATORY
ACUTE TREATMENT OF PHYSICAL INJURY TO SPINAL CORD AND SCIATIC NERVE OF THE RAT
STUDY OF LEGIONELLA PNEUMOPHILA AND COXIELLA BURNETI PATHOGENESIS
PORCINE AND OVINE EMBRYO TRANSFER
CLINICAL TRIAL IN DOGS WITH URINARY BLADDER CANCER
ROLE OF CDK5 KINASE IN NEURONAL SIGNALING
LABORATORY ANIMAL PROGRAM ANIMAL HOLDING PROTOCOL
NORMAL AND IMPAIRED SIGNAL PROCESSING IN THE AUDITORY PERIPHERY
COMPARATIVE STUDY OF SEASONALITY IN AUDITORY PERFORMANCE
EVALUATION OF PROTOTYPE URETERAL STENTS
MOLECULAR MECHANISMS OF INTESTINAL LIPID ABSORPTION
USE OF FISH, AMPHIBIANS, AND REPTILES FOR TRAINING FNR AND CE UNDERGRADUATE AND GRADUATE STUDENTS ON HOW TO COLLECT BLOOD SAMPLES AND HOW TO CONDUCT NECROPSIES FOR FNR 52600 (AQUATIC ANIMAL HEALTH) AND FNR 37100 (FISHERIES SUMMER PRACTICUM)

DRY-POWDER INHALATIONAL DRUG DELIVERY SYSTEMS FOR THERAPY OF CYSTIC FIBROSIS

THE USE OF AN EQUINE MODEL OF HEAVES TO ASSESS NEW DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

IN VIVO DELIVERY OF STEM CELLS WITHIN SUBCUTANEOUS AND BONY TISSUE MICROENVIRONMENTS

CELLULAR BASES OF AUDITORY PROCESSING ACROSS THE LIFESPAN

COMPARISON OF CENTRAL AUDITORY PROCESSING IN NORMAL VERSUS AGED ANIMALS

OUTREACH USING VERTEBRATES

RESPONSES OF SMALL MAMMALS TO FOREST HARVEST

TREATMENT OF COLITIS BY NATURAL FORMS OF VITAMIN E AND THEIR METABOLITES

BCG BINDING PROTEIN, FAP, AS AN IMMUNOMODULATOR IN THE TREATMENT OF INTERSTITIAL CYSTITIS

IN VIVO AND EX VIVO STUDIES USING THE MECHANISMS AND TREATMENTS OF CNS DEMYELINATION IN EAE MICE

EFFECTS OF DIETARY MACRONUTRIENTS ON ENERGY BALANCE

BIOACTIVE FOOD COMPONENTS, CELLULAR PATHWAYS, AND OBESITY

HOST/TUMOR INTERACTIONS IN IMMUNOTHERAPY OF PROSTATE CANCER

STAINING AND SECTIONING RAT NEURONS

ADULT STEM CELLS IN MUSCLE AND ADIPOSE TISSUE HOMEOSTASIS AND REGENERATION

THE ROLE OF DIETARY FATTY ACIDS ON EFFICIENCY OF GROWTH IN PIGS

ROLE OF BIGLYCAN IN OBESITY, INSULIN RESISTANCE AND ATHEROSCLEROSIS

ASSESSMENT OF DIETARY FATTY ACID CONTRIBUTION TO RISK FACTORS FOR OBESITY, INSULIN RESISTANCE AND CARDIOVASCULAR DISEASES

BME 305: UTILIZATION OF BIOELECTRIC POTENTIALS, RECORDINGS AND STIMULATION, OF EXCITABLE TISSUES TO INVESTIGATE SIGNAL PROPAGATION

BREEDING AND SACRIFICE OF ZEBRAFISH

ADENOVIRAL VECTORS FOR GENE THERAPY AND IMMUNIZATION

VITAMIN E FORMS AND THEIR METABOLITES AS EFFECTIVE ANTI-CANCER AGENTS IN AOM-INITIATED AND DDS-ACCELERATED COLON CANCER MODEL

FISH MEDICINE

SAFETY AND FUNCTIONAL BIOCOMPATIBILITY OF PROTOTYPE EMBOLIZATION DEVICES IN PERIPHERAL VASCULATURE

EVALUATION OF ANTICANCER AGENTS AND DEVELOPMENT OF NORMAL AND ATHYMIC MICE MODELS FOR CANCER GROWTH AND METASTASIS

ECOLOGICAL STUDY OF FISHES IN LACUSTRINE SYSTEMS

GRASS CARP SCREENING FOR TRIPLOIDY

VASCULAR SHUNT FOR TREATMENT OF HEMODIALYSIS

VCS 22600 PRINCIPLES OF ANESTHESIA

EVALUATION OF BIOCOMPATIBILITY OF EXCIPIENTS FOR INTRAPERITONEAL DRUG DELIVERY

EVALUATION OF PHARMACEUTICALS ON THE PIGTURN

BANDING STUDIES OF NATIVE TERRESTRIAL BIRDS

ROLE OF ONCOGENIC KINASES IN CANCER

DEVELOPMENT OF MOLECULAR BIOMARKERS OF EXPOSURE TO ENDOCRINE DISRUPTING HERBICIDES

ROLES OF SALMONELLA TYPE III EFFECTORS IN MOUSE COLITIS

METHODS TO INCREASE EXERCISE AND DECREASE CONSUMED CALORIES IN HORSES IN SMALL PADDOCKS

IN VITRO EXAMINATION OF NEUROPROTECTIVE DRUG COMBINATIONS FOR STROKE TREATMENT

ENDOSCOPIC EVALUATION PROTOTYPE HEMOSTASIS DEVICES IN THE GI TRACT

GESTATIONAL WEIGHT GAIN AND FETAL PROGRAMMING

ECOLOGY AND GENETICS OF HOST-PARASITE INTERACTIONS

STORE-OPERATED CALCIUM ENTRY IN PIG OOCYTES

FIELD SURVEYS FOR A VERTEBRATE BIOLOGY COURSE

ANIMAL AWARENESS IN AGRICULTURE

PURDUE UNIVERSITY SCHOOL OF VETERINARY MEDICINE OPEN HOUSE

VAGUS NERVE STIMULATION FOR TREATING DRUG-RESISTANT NEUROPATHOLOGIES

GAIT ANALYSIS AS A MEASURE OF ORTHOPEDIC AND NEUROLOGICAL FUNCTION IN DOGS

VERTEBRATE SURVEYING

HERPETOFAUNAL TELEMETRY

MOUSE OOCYTE, EMBRYO AND STEM-CELL PROFILING BY MASS SPECTROMETRY

USE OF SHEEP AND GOATS IN ANIMAL SCIENCES EXTENSION EDUCATIONS ACTIVITIES

DIAGNOSTIC IMAGING FOR VETERINARY TECHNICIANS: VCS 252 AND ROTATIONS (VM 243, VM 244, VM 249, VM 343, VM 344, VM 443) AND DIAGNOSTIC IMAGING VETERINARY TECHNOLOGY DISTANCE LEARNING MENTORSHIP WORKSHOP (VM 215, VM 216)

SMALL ANIMAL NURSING: VCS 221, VCS 224, VCS 223, VCS 322 AND ROTATIONS (VM 243, VM 244, VM 249, VM 343, VM 344, VM 443), AND SMALL ANIMAL DISTANCE LEARNING WORKSHOPS

TRAINING IN RETINA EXTRACTION FOR VISUAL PHYSIOLOGY RESEARCH

ACUTE AND CHRONIC VENOUS CATHETER PROTOTYPE DEVICE TESTING

A MOUSE MODEL OF SEPSIS

ISOLATION OF PRIMARY MACROPHAGES

VM 32300 LAB ANIMAL & NURSING OF NON-TRADITIONAL PETS, VM 22600 VTDL LABORATORY ANIMAL MENTORSHIP, CLINICAL ROTATIONS (VM 243, VM 244, VM 249, VM 343, VM 344, VM 443), AND SMALL ANIMAL WORKSHOPS

TYROSINE PROTEIN KINASES AND LYMPHOCYTE ACTIVATION

ACUTE AND CHRONIC TREATMENT OF INJURY TO THE SPINAL CORD AND BRAIN

NUTRIENT UTILIZATION IN PORCINE AND POULTRY SPECIES

DIGESTIBILITY OF NUTRIENTS IN FEED INGREDIENTS USING EITHER NON-CANNULATED OR CANNULATED PIGS

PROTOTYPE CORONARY STENT TESTING

ANSC 245 - APPLIED ANIMAL MANAGEMENT

ONTOGENY OF METABOLIC CONTROLS OF INGESTIVE BEHAVIOR

AUTONOMIC CONTROLS OF BODY WEIGHT AND FEEDING

VCS 81101 - GENERAL SURGERY LABORATORY

VETERINARY SKILLS AND COMPETENCIES (VSAC) CANINE EDUCATORS

VCS 81800/82000: SMALL ANIMAL SURGICAL LABORATORY I&II

MODELING SWINE GROWTH, NUTRIENT REQUIREMENTS, AND PORK QUALITY

ACUTE TREATMENT OF MECHANICAL INJURY TO THE ISOLATED SPINAL CORD OF RATS

FORMATION OF A SPECIFIC PATHOGEN FREE CHICKEN AND TURKEY COLONY

PROTOTYPE ENDOVASCULAR GRAFT TESTING

SEROLOGIC SURVEILLANCE OF CHRONICALLY MAINTAINED RODENT COLONIES

TARGETING OF IMAGING AND THERAPEUTIC AGENTS TO ACTIVATED MACROPHAGES

LYMPH COLLECTION FROM RATS WITH METASTATIC BREAST CANCER

ACUTE TREATMENT OF PHYSICAL INJURY TO THE BRAIN

ECTRA-STIATAL RAT MODELS OF PARKINSON'S DISEASE

INVESTIGATING THE EFFECTS OF CAROTENOIDS ON LAYING HEN WELFARE AND PRODUCTION VALUES, EGG QUALITY PARAMETERS IN LAYING HENS, AND COCCIDIOSIS AND FOOTPAD DERMATITIS IN BROILERS

EFFECT OF PROKINETIC DOSE OF AZITHROMYCIN ON FECAL MICROBIOTA PROFILE IN HEALTHY DOGS

Local, regional, and remote safety of candidate solutions for intra-articular injection

EFFECT OF GENETIC LINE ON TURKEY PERFORMANCE, BEHAVIOR, AND WELFARE

EVALUATION OF BOAR FEEDING STRATEGIES

HIGH AFFINITY IGAND TARGETED DELIVERY OF THERAPEUTIC AND IMAGING AGENTS TO TREAT NON ALCOHOLIC FATTY LOVER DISEASES

EFFECT OF GUT NICROBIOTAS ON STRESS RESPONSE AND RELATED BEHAVIOR AND HEALTH IN LAYING HENS

DEMONSTRATION OF RUMEN FISTULATED COW

HIGH AFFINITY LIGAND TARGETED DELIVERY OF IMAGING AGENTS AND CHEMOTHERPEUTICS TO TUMORS

RETROGRADE CORONARY PERFUSION FOLLOWING MYOCARDIA INFARCT

VCS 82200 AND 82300 LARGE ANIMAL JUNIOR SURGERY LABORATORY

NEW RODENT GENE-ENVIRONMENT INTERACTION MODELS OF PARKINSON'S DISEASE

THE ROLE OF ESTROGEN RECEPTOR BETA IN SKELETAL GROWTH AND THE PHYSIOLOGICAL RESPONSE TO MECHANICAL LOAD

TOP DOWN CONTROL OF AUDITORY EVOKED POTENTIALS AND UNIT RESPONSES

DEVELOPMENT OF NANOCRYSTALS FOR CANCER THERAPY AND DIAGNOSIS

ZEBRAFISH BREEDING, TUMORIGENESIS AND SACRIFICE

GOLDEN RETRIEVER PIGMENTARY UVEITIS

EVALUATION OF ANTICANCER AGENTS AND DEVELOPMENT OF ATHYMIC MICE MODEL OF CANCER GROWTH AND METASTASIS

IFNBETA MODULATES INFLAMMATORY RESPONSES IN CEREBRAL ISCHEMIA

IN VITRO GENERATION OF MICROGLIAL CELLS

IFNBETA REGULATES INFLAMMATORY RESPONSES IN EAE

THE INFLUENCE OF COINFECTION ON AMPHIBIAN HOSTS

MICROBIAL ECOLOGY OF LOWER GASTROINTESTINAL TRACT IN NURSERY SWINE

INDUCED PESTICIDE RESISTANCE IN AMPHIBIANS

LARGE ANIMAL TEACHING BLANKET PROTOCOL

MICRORNA CANCER THERAPEUTICS

PLATELET-MEDIATED MODULATION OF ADAPTIVE IMMUNITY

BLAST-INDUCED BRAIN INJURY IN MICE

URBAN VERSUS WILD CAROLINA CHICKADEE: THE INFLUENCE OF ENVIRONMENT ON VOCAL COMMUNICATION

APPLICATION OF BIODYNAMIC IMAGING FOR PERSONALIZED CHEMOTHERAPY IN CANINE LYMPHOMA: A PILOT STUDY

HIGH AFFINITY LIGAND MEDIATED IMMUNOTHERAPY OF TUMORS

BIOLUMINESCENT TRACKING OF CANCER GROWTH AND METASTASIS

ASSESSMENT OF TUMORAL FOLATE UPTAKE IN DOGS WITH NATURALLY-OCCURRING CANCERS

PORCINE AND OVINE EMBRYO TRANSFER

NUTRIENT UTILIZATION IN FEED INGREDIENTS FOR POULTRY

COSTA RICAN SEA TURTLES

METRONOMIC CHEMOTHERAPY FOR BRAIN TUMORS IN DOGS- COLLEGE OF VETERINARY MEDICINE INTERNAL CFP

ANSC 442- SHEEP MANAGEMENT

FIELD SURVEYS OF WILDLIFE POPULATIONS (FNR 348 WILDLIFE INVESTIGATIONAL TECHNIQUES LABORATORY AND FNR 370 SUMMER PRACTICUM)

INFLAMMATION IN ZEBRAFISH

A NOVEL METHOD TO MINIMIZE BIRD STRIKES THROUGH ONBOARD LIGHTING SYSTEMS

TARGETED-PHOTODYNAMIC THERAPIES FOR CANCER

TESTING AND DEVELOPMENT OF PHARMACEUTICALS IN RODENTS

SURVIVAL, HABITAT USE, AND MOVEMENT OF JUVENILE EASTERN HELLBENDERS

PROOF OF CONCEPT-PRELIMINARY DEVICE DEVELOPMENT

FIELD SURVEYS OF WILDLIFE FOR DEVELOPMENT OF HABITAT MANAGEMENT PLANS (FNR 341 WILDLIFE HABITAT MANAGEMENT)

EXPERIMENTAL INVESTIGATIONS OF NEURAL CIRCUITS FUNCTION IN CEREBRAL CORTEX

ANIMAL SCIENCES 44400 DAIRY PRODUCTION

MECHANISMS OF DISCRIMINATIVE CUE CONDITIONING

ELECTROPHYSIOLOGY OF THE FROG NEUROMUSCULAR JUNCTION

THE EFFECT OF LAMENESS ON BEHAVIOR AND OTHER MEASURES OF WELFARE IN HORSES

BREEDING AND SACRIFICE OF ZEBRAFISH

LARYNGEAL IMPLANTS FOR LARYNGEAL RECONSTRUCTION

STEM CELL VOCAL FOLD AUGMENTATION IN A PORCINE MODEL

HIGH-THROUGHPUT DEEP TISSUE IN VIVO IMAGING

EXPERIMENTAL THERAPIES FOR TUMOR AND MUSCULOSKELETAL TISSUES
STUDIES ON NOVEL VACCINE ADJUVANTS
SMALL ANIMAL TEACHING BLANKET PROTOCOL
LIGAND-TARGETED DELIVERY OF IMAGING AND THERAPEUTIC AGENTS FOR INFLAMMATORY DISEASES
EVALUATION OF INFECTION RESISTANCE AND BIOCOMPATIBILITY OF GRAFTS IN RABBITS
STRUCTURE AND FUNCTION OF PROTEIN TYROSINE PHOSPHATASES
MURINE MODELS OF HETEROCYCLIC AMINE NEUROTOXICITY
COLLECTION OF BLOOD AND TISSUE SAMPLES FROM DOGS TO UNDERSTAND PROGRESSION OF PRENEOPLASTIC MAMMARY TUMOR LESIONS TO INVASIVE CANCER
EFFECTS OF PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES ON AMPHIBIANS
PURDUE HORSE MANAGEMENT AND RIDING
EVALUATION OF SELF-CLEARING SHUNT IN PORCINE HYDROCEPHALUS MODEL
ANALYSIS OF PROSTATE CANCER DEVELOPMENT, PROGRESSION AND THERAPY RESPONSE IN MICE
COMPARISON OF INSECTICIDE EAR TAGS AND SELF-APPLICATION METHOD FOR CONTROLLING FLIES ON BEEF CATTLE
NEURODEGENERATION IN RATS CHRONICALLY EXPOSED TO HETEROCYCLIC AMINES (BIOLOGICAL VARIABLES)
PATHOBIOLOGY AND BIOMECHANICS OF VOCAL FOLD DEHYDRATION

HERPETOFAUNA POPULATION STATUS SAMPLING IN THE MIDWEST

HUSBANDRY AND BREEDING OF ZEBRAFISH TO STUDY BRAIN DEVELOPMENT

ISOLATION AND CULTURE OF NEONATAL MOUSE CARDIOMYOCYTES

HIGH AFFINITY LIGAND TARGETED DELIVERY OF THERAPEUTIC AND IMAGING AGENTS TO TREAT INFLUENZA INFECTIONS

IMAGING AND THERAPEUTIC STUDY OF PULMONARY FIBROSIS USING TARGETED OPTICAL AND RADIOACTIVE IMAGING AGENTS

FLEXIBLE SILICON NANONEEDLES DELIVERING NUCLEIC ACIDS FOR NEOVASCULARIZATION

TUMORIGENESIS, METASTASIS, AND TREATMENT

LIVESTOCK JUDGING AND EVALUATION CLASSES, CONTESTS, AND ACTIVITIES (ANSC 293, ANSC 370, ANSC 470

TEACHING FIELD HERPETOLOGY

QUANTIFYING THE EFFICACY AND ROLE OF SERVICE DOGS FOR MILITARY VETERANS WITH PTSD AND THEIR SPOUSES

THE EFFECT OF THYROXINE ADMINISTRATION ON MEASURES OF PERFORMANCE IN RACEHORSES

EPIGENETIC REGULATORS INVOLVED IN CANCER GROWTH AND METASTASIS

THE ROLE OF GLTSCR1 IN DEVELOPMENT

EVALUATION OF THE PREY BASE AND FEEDING RELATIONSHIP OF THE AMERICAN BURYING BEETLE IN THE FRAGMENTED EASTERN DECIDUOUS FOREST

AVIAN HANDLING AND SIMPLE PROCEDURES

EFFECTS OF LASERS ON SEABIRDS: IPLICATIONS FOR BYCATCH PREVENTION

BIOMARKER-GUIDED THERAPY

MARINE BIOLOGY PRACTICUM - FNR498

IN VIVO T HELPER CELL DIFFERENTIATION DURING INFLAMMATION

COLLECTION OF BLOOD, URINE AND TISSUE SAMPLES FROM PET DOGS TO MAKE PROGRESS AGAINST CANINE AND HUMAN CANCERS

BIODYNAMIC TESTING OF CHEMOTHERAPY SENSITIVIY FOR CUTANEOUS LYMPHOMA

TISSUE-ENGINEERED CONSTRUCTS FOR TREATING FULL-THICKNESS SKIN DEFECTS

EXTENSION PROGRAMS AT PURDUE AG CENTERS

THE FAMILIARITY HEURISTIC IN GOLDFISH, CARASSIUS AURATUS

EFFECT OF PROBIOTICS AND SYMBIOTIC ON STRESS RESPONSE BROILER CHICKENS

DEVELOPMENT AND VALIDATION OF A NOVEL ASSAY TO DETECT INTRAERYTHROCYTIC REACTIVE OXYGEN SPECIES (ROS) BY FLOW CYTOMETRY

IMPACT-IINDUCED BRAIN INJURY IN RATS

NEURAL CIRCUIT FUNCTION UNDERLLYING SENSATION AND ACTION

CELLULAR AND MOLECULAR BASIS FOR NEURONAL SYNAPTIC CONNECTIVE STRENGTH

EVALUATION OF FROZEN SEMEN IN SWINE

ZEBRAFISH NEUROGENESIS, TUMORIGENESIS, AND SACRIFICE

NEUTROPHIL MIGRATION USING MICE

USING VIDEO IMAGING TO ASSESS LOCOMOTION SCORING IN DAIRY CATTLE

MANAGEMENT OF EQUINE SEPSIS

OBESITY-RELATED TOXICITY AND RESPONSE FOLLOWING EXPOSURES TO NANOPARTICLES VIA INHALATION AND INTRAVENOUS DELIVERY

EXTRACTION OF BRAIN AND DORSAL ROOT GANGLIA IN RATS

LARYNGEAL IMPLANTS FOR LARYNGEAL RECONSTRUCTION IN A PORCINE MODEL

Examining interactions between various environmental stressors and a fungal disease on amphibians in Indiana

NESTING AND SPATIAL ECOLOGY OF SEA TURTLES IN NORTHWESTERN COSTA RICA

EVALUATION OF THE IMPACT OF SOW COOLING PAD IN BOARS, LACTATING SOWS AND GILS AND SOWS CHOSEN FOR BREEDING

DEVICES AND PROCEDURES TO TREAT TRICUSPID REGURGITATION

A MULTI-TRAIT APPROACH TO UNDERSTAND THE EVOLUTION OF VISUAL SYSTEMS IN BIRDS

PORCINE LUMPECOTMY MODEL

SURGICAL PROTOCOL FOR THE STUDY OF NEUROLOGICAL DISEASES

MODEL ECOSYSTEM PROJECT FOR BIOL 20500

VITAMIN E FORMS, THEIR METABOLITES AND OTHER BIOACTIVES AS EFFECTIVE CANCER PREVENTIVE AGENTS IN GENETICALLY ENGINEERED CANCER MODELS IN MICE

ANSC 10200 (INTRODUCTION TO ANIMAL AGRICULTURE)

EVALUATION OF PROTOTYPE SYSTEM FOR DEPLOYMENT OF VENOUS VALVES

INVESTIGATIONS OF THROMBOSIS MODELS AND PROTOTYPE THROMBECTOMY DEVICES

PULMONARY PHARMACOKINETICS OF ANTIBIOTICS LIPOSOMAL FORMULATIONS IN RATS

PREDICTING RE-HOMING OUTCOMES IN RETIRING COMMERCIAL BREEDING DOGS

THE EFFECT OF MATERNAL FEAR AND STRESS ON PUPPY HEALTH AND BEHAVIOR

MAXILLOFACIAL BONE DEFECT-TARGETED DELIVERY OF BONE ANABOLIC

EVALUATION OF IMPLANTABLE DEVICES FOR OPIOID OVERDOSE

ALCOHOL RELATED TRAITS AND BEHAVIORAL PHARMACOLOGY IN ANIMAL MODELS OF ADDICTION, DEPRESSION, ANXIETY AND SCHIZOPHRENIA

TARGETED DRUG DELIVERY IN OSTEOMYELITIS

EVALUATION OF PROTOTYPE ENDOSCOPIC DEVICES IN THE GI TRACT

Noninvasive Multimodal System to Detect Autonomic Dysreflexia in Individuals with Tetraplegia

USE OF ANIMALS FOR PURDUE VETERINARY MEDICINE YOUTH EDUCATIONAL ENGAGEMENT PROGRAMS

ANTI-INFLAMMATORY AND ANTI-OXIDANT EFFECTS OF PLANT BIOACTIVE COMPOUNDS ROLE OF GUT BACTERIA

STEM CELL REPROGRAMMING IN NEURAL CIRCUITS AND DISEASE

CANINE- CANINE IMMUNONEUROTHERAPEUTICS TRIAL

EVALUATION OF HEMOSTATIC AND SEALANT MATERIALS

TARGETED DELIVERY OF SMALL MOLECULE LEADS, THEIR LIVE CELL CONJUGATES AND IMAGING AGENTS TO TREAT AND TRACK CANCER IMMUNOLOGICAL DISEASES IN MICE

DEVELOPMENT AND PROTECTION ASSESSMENT OF FUSOBACTERIUM LEUKOTOXIN BASED VACCINE AUGMENTED WITH RECOMBINANT LEUKOTOXIN AND RECOMBINANT OUTER MEMBRANE PROTEIN AGAINST BOVINE LINE ABSCESS

ESTABLISHMENT OF A COLONY OF FOLATE RECEPTOR BETA KNOCKOUT AND WILD TYPE MICE TO STUDY THE EFFECT OF DRUGS IN CANCER AND INFLAMMATORY DISEASES

VCS 82501 RUMINANT THERIOGENOLOGY

GENETIC STUDIES OF NATURALLY-OCCURRING INHERITED TRAITS AND DISEASES IN DOGS AND CATS

ASSESSMENT OF HOUSE MOUSE, MUS MUSCULUS, POPULATION LEVELS ON SWINE FARM USING NON-TOXIC FOOD BAITS.

EFFECTS OF FOREST MANAGEMENT ON SALAMANDER POPULATIONS

BAT ECOLOGY RESEARCH

IFNBETA MODULATES NEUROINFLAMMATION IN ALZHEIMER'S DISEASE

EVALUATION OF INFLAMMATORY RESPONSE TO SUBCUTANEOUSLY IMPLANTED NANOTEXTURED DEVICES

SAFETY EVALUATION OF CURED IN PLACE PIPE EMISSIONS
ANIMAL MODEL FOR PARKINSON'S DISEASE
IMPROVING VACCINE PERFORMANCE WITH A NOVEL PHYTOGLYCOGEN NANOPARTICLE ADJUVANT
SENSORY BASIS OF INDIVIDUAL RECOGNITION IN BIRDS
PHARMACOKINETICS OF LONG ACTING INJECTABLES
THE EFFECTS OF SYSTEMIC DEHYDRATION ON LARYNGEAL WOUND HEALING IN RATS
CLINICAL EVALUATION OF PROPRANOLOL IN COMBINATION WITH DOXORUBICIN FOR THE TREATMENT OF SPLENIC HEMANGIOSARCOMA IN DOGS
UNDERSTANDING BEHAVIORAL RESPONSES TO AN AVIAN VISION INTEGRATED DETERRENT
THE EFFECTS OF ADVANCED GLYCATION END PRODUCTS ON MODULATION OF TENDON STRUCTURE, FUNCTION AND HEALING RESEARCH
COLLECTION AND ANALYSIS OF GAMETES FROM MICE
DEVELOPMENT OF A SENSOR TO DETECT ANTIBIOTIC RESISTANCE IN CATTLE
ACCELERATED SPINAL FUSIONS THROUGH TARGETTED BONE ANABOLICS ADMINISTRATION
EVALUATING THE EFFECTS OF THE SELECTIVE FATTY ACID AMIDE HYDROLASE (FAAH) INHIBITOR IN THE TREATMENT OF ANXIETY DISORDERS IN DOGS
PURDUE ANIMAL BEHAVIOR CORE GENERAL PROTOCOL
SUBCUTANEOUS IMPLANTATION OF PROTOTYPE MATERIALS

MOUSE MODELS OF ANGIOSARCOMA

BIG DUTCHMAN SMART BROILER INITIATIVE

PABC EXTERNAL USERS

GUT MICROBIOME ON HEALTH AND DISEASE

SWINE GERMPLASM PRESERVATION AND UTILIZATION

DIET-INDUCED MODULATION OF GUT-BRAIN SIGNALING WITH PROCESSED STARCH-BASED CARBOHYDRATES IN MICE

BODY PROPORTIONS AND TRACKWAYS OF AMERICAN ALLIGATORS

ACUTE TREATMENT OF PHYSICAL INJURY TO SPINAL CORD OF THE MOUSE

IMMUNE RESPONSES IN THE VASCULAR COMPARTMENT AND AT THE FETAL-MATERNAL INTERFACE

THE ROLE OF PROTEIN PHOSPHATASES IN CANCER

PURDUE CALVING SCHOOL

EFFICACY OF LOCALLY APPLIED NANOPARTICULATE SILVER AGAINST INFECTIONS

DECODING THE FUNDAMENTAL BASIS OF NEURAL CIRCUITS TRANSFORMATIONS OF SENSORY INPUTS IN VIVO

HEMOIV BLOOD SAMPLE RELIABILITY TESTING

TROUT AQUAPONICS

NEURAL CIRCUITS OF AVIAN COLOR VISION

EVALUATION OF A NON-INVASIVE BOLUS THAT MEASURES INTESTINAL PHYSIOLOGY AND MICROBIOLOGY IN PIGS

INVESTIGATING COGNITIVE FUNCTION IN CANINE ANXIETY

METABOLIC RESEARCH ON ALBUMIN-DEFICIENT MICE

TRAINING PROTOCOL SWINE

IN VIVO MATURATION OF HEMATOPOIETIC STEM AND PROGENITOR CELLS DERIVED FROM HUMAN PLURIPOTENT STEM CELLS

COMPARISON OF SINGLE-DOSE PHARMACOKINETICS IN HEALTHY DOGS RECEIVING VETMEDIN, COMPOUNDED GENERIC PIMOBENDAN CAPSULES, AND COMPOUNDED GENERIC PIMOBENDAN SOLUTION

DEVELOPMENTAL ALCOHOL EXPOSURE AND ANXIETY-LIKE BEHAVIOR

IMPROVING THE WELFARE AND PRODUCTIVITY OF LACTATING SOWS DURING HEAT STRESS EVENTS THROUGH GENOMICS

EFFECTS OF ENDOCRINE DISRUPTORS ON FISH

TEACHING FIELD MAMMALOGY

CONTINUOUS GLUCOSE AND LACTATE MONITORING FROM INTERSTITIAL FLUID WITH HYDROGEL MICRONEEDLE PATCH SENSOR

PHASE I DOSE ESCALATION TRIAL OF DOSE-INTENSE COMBINATION CHOP CHEMOTHERAPY IN DOGS WITH DIFFUSE LARGE B-CELL LYMPHOMA

VETERINARY NURSING DISTANCE LEARNING (VNDL) MENTORSHIPS: VM20500, VM 20600, VM 20700, VM 20800, VM 20900, VM 21000, VM 21100, VM 21200, VM 21300, VM 21400, VM 21500, VM 21600, VM 21700, VM 22300, VM 22400, VM 22500, VM 22600, VM 22700

ADVANCED DIAGNOSTICS TO DETERMINE GLAUCOMA PROGRESSION

COMPARISON OF THE BIOAVAILABILITY OF METRONIDAZOLE ADMINISTERED RECTALLY IN HORSES USING WATER OR A SELF-EBULSIFYING DRUG DELIVERY SYSTEM

EFFECT OF SUPPLEMENTING BLUEBERRIES ON DIRECT AND INDIRECT MARKERS OF OXIDATIVE STRESS IN DOGS, AND ON OXIDATIVE AND STORAGE LESIONS IN CANINE RED BLOOD CELLS

EFFECTS OF REPLACING DIETARY METHIONINE HYDROXY ANALOG FATTY ACID WITH DL-METHIONINE ON LAYING HEN PERFORMANCE

THE USE OF S-ADENOSYLMETHIONINE AS AN ADJUNCTIVE THERAPY FOR DOGS WITH PRIMARY IMMUNE-MEDIATED HEMOLYTIC ANEMIA

In vivo imaging development for assessment of cardiovascular disease in rodents

EVALUATION OF THE EFFICACY OF NOVEL VACCINE ADJUVANTS

EVALUATION OF ANTITHROMBOTIC DRUG TITRATION PROCEDURE

Whole mouse embryo culture in serum-free medium.

PROGESTERONE INFLUENCES ON OVARIAN FUNCTION

EXERCISE STUDIES ON TISSUE-SPECIFIC INTERLEUKIN-6 RECEPTOR KNOCKOUT MICE

ROLE OF GLIAL CELLS IN TRAUMATIC BRAIN INJURY RELATED NEURODEGENERATION

NEURAL AND BEHAVIORAL CORRELATES OF SENSORIMOTOR INTEGRATION AND PLASTICITY

FNR TEACHING AND RESEARCH PONDS

RODENT CONTROLLED CORTICAL IMPACT

PFAS NEUROTOXICITY: RELATIONSHIP TO NEURODEGENERATION AND MENTAL HEALTH DISORDERS

UNDERSTANDING CATTLE DEPRIVATION BY BLACK VULTURES IN SOUTHERN INDIANA AND NORTHERN KENTUCKY

SKELETAL MUSCLE MICROVASCULAR DYSFUNCTION IN HEART FAILURE WITH PRESERVED EJECTION FRACTION

BOVINE MODEL FOR FETUS GENDER EFFECT ON GESTATIONAL DIABETES

OSTEOGENIC REPAIR OF CALVARIAL DEFECTS

CALF-A-PULL-OOZA

ORTHOPEDIC EVALUATION OF NORMAL DOGS VIA CT SCANN

Husbandry, breeding, imaging, and injury of Zebrafish (*Danio rerio*) to study nervous system development and regeneration

MECHANISTIC INVESTIGATION OF NANOPARTICLE-INDUCED TOXICITY

THE EFFECTS OF PRENATAL ALCOHOL EXPOSURE ON ACTION IMPULSIVITY IN MALE AND FEMALE ADOLESCENT RATS

INVESTIGATING THE UNSTEADY FLOW FIELD OF HOVERING ANIMALS THROUGH A HYBRID EXPERIMENTAL AND COMPUTATIONAL APPROACH

TEACHING MAMMALOGY FIELD SKILLS

VERIFICATION OF WIRED BASED Mg-ALLOYED STENTS COATED WITH POLYMER

Veterinary Nursing Distance Learning (VNDL) Clinical Mentorships - Equine and Ruminants: VM 20800, VM 20900, VM 21700

Evaluation of wearable devices for neonatal thermal care
EFFECTS OF STRESS HORMONES ON PEKIN DUCKS
EXAMINATION OF BEHAVIORAL AND NEURAL OUTCOMES ASSOCIATED WITH DRUGS OF ABUSE AND NEURODEGENERATIVE DISEASES
ANIMAL SCIENCES 435 AND 333: REPRODUCTIVE PHYSIOLOGY AND MANGAGEMENT
INVESTIGATING THE VIRULEMNC E DETERMINANTS OF CLOSTRDIOIDES DIFFICILE AND THEIR ROLE IN DIESASE
AGE-RELATED SYNUCLEINOPATHIS GENERAL PROTOCOL
MODELING PRECISION POLYTRAUMA IN SWINE: A PILOT STUDY
Investigating colostrum management practices and passive immune transfer of farms raising dairy and dairy-beef calves: differences in treatment and outcomes based on breed
TREATMENT OF MULTIPLE SCLEROSIS VIA TARGETED SMALL MOLECULE CONJUGATES
MODELING MIXED VASCULAR AND ALZHEIMER'S DEMENTIA USING TRANSIENT ISCHEMIA AND CHRONIC HYPOPERFUSION TO DEVELOP THERAPEUTIC TREATMENTS
THERAPEUTIC EVALUATION OF HUMAN PLURIPOTENT STEM CELL-DERIVED IMMUNE CELLS USING XENOGRAFT MURINE MODELS OF BRAIN TUMORS
Immunoprevention of Breast Ductal Carcinoma in Situ
CAPTIVE BOLT AS A METHOD OF EUTHANASIA IN HORSES
PORCINE MODEL FOR ASSESSING PROPERTIES OF SUBCUTANEOUS TISSUES
POULTRY MANAGEMENT, ANSC 445

Role of gut microbiota in drug efficacy and toxicity
Altered drug metabolism during pregnancy
EVALUATION OF USING SEDLINE EEG MONITOR IN EQUINE, RUMINANT, CANINE, FELINE, AND PORCINE PATIENTS UNDERGOING GENERAL ANESTHESIA
MOUSE BREEDING COLONY
Evaluating cortisol transfer to fetuses in heat-stressed gestating pigs
EFFECT OF SUPPLEMENTATION AT BIRTH ON SMALL PIGLET SURVIVAL, GROWTH, AND SUCKLING BEHAVIOR
BOAR TRAINING AND COLLECTION
Pilot study on feasibility of sensory-enhanced rehabilitation in canine spinal cord injury
Cartilage Implantation in Non-Load Bearing Applications
ESTABLISHMENT AND MAINTENANCE OF A FROG-BITING MOSQUITO COLONY
MRI Safety Assessment of Materials and Injectables
Integrating functional genomics, behavior, and health measures to mitigate the cumulative effects of in utero heat stress on swine welfare
Improving piglet survivability and sow welfare through microenvironment management using precision technology
ACCELERATED RIB FRACTURE HEALING THROUGH TARGETD BONE ANABOLICS
Ligand Conjugate Therapies

Continuous interstitial versus capillary blood glucose monitoring in non-diabetic dogs in the intensive care unit
VCS 85100 Medicine and Surgery of Non Traditional Pets
The role of thyroid hormone in swine performance
Otologic Repair Graft
Environmental enrichment effects on slaughter pig welfare
Evaluation of Ablation Devices and Procedures
Biodistribution and anti-tumor activities of nanoparticles in murine tumor models
Role of Stable exposure in airway inflammation
Investigation into the pathogenesis of a novel cholangiohepatitis syndrome in horses
DEVELOPMENT OF CONTACT LENS INTRAOCULAR PRESSURE MEASURING DEVICE
The role of thyroid hormone in fetal development
Aquatic Sampling Techniques Courses - FNR351, FNR371 & FNR498
Impact of circadian disruption of maternal behavior, lactation competence and mitochondrial biogenesis.
Canine glaucoma model development for biomechanical research
Effect of Commonly used medications on Ocular Parameters

Understanding factors that modulate musculoskeletal injury risk and degeneration
Employing phage therapy to pathogen transmission and infections
Breeding colony for the development of immuno-oncology drug
Evaluating behavior, space utilization and cleanliness of commercial breeding dogs in different housing conditions
TRAUMATIC BRAIN INJURY AND SEIZURES
Folate targeting to the CNS of injured rodents
Folate targeting to the CNS of rabbits
Vertebrate skeletal mechanobiology II
USE OF BIOCOMPATIBLE SENSORS TO MODEL FORCES ON THE KEEL BONE OF LAYING HENS
Peripheral and Central Auditory Changes in Response to noise exposure or aging mimetics
Dietary methods of reducing stress in broiler chickens
FRACTURE TARGETED DELIVERY OF ANABOLIC AGENTS
THE EFFECTS OF DOSING LIQUID OREGANO IN THE WATER OF PIGS ON HEALTH AND GROWTH PERFORMANCE DURING A HEAT STRESS EVENT
Understanding Hormonal regulation of systemic and reproductive immunity
EXERCISE STUDIES ON MICE WITH ALTERED FATTY ACID METABOLISM

Immunoproteasome inhibitors for the treatment of Alzheimer's disease

MICROBIOME REGULATION OF MUSCULOSKELETAL INJURY RISK

EFFECTS OF STIMULATION WITH ACTH CHALLENGE ON HAIR CORTISOL CONCENTRATION AND BEHAVIOR OF PREWEANED DAIRY CALVES

SENSORS IN DAIRY CATTLE FOR SMART ANIMAL AGRICULTURE

EVALUATION OF SLOW-RELEASE BUPIVACAINE IMPLANTS FOR INCISIONAL PAIN IN FERRETS

OPTIMAL ROUTE OF ADMINISTRATION OF FECAL MICROBIOTA TRANSPLANTS IN SWINE

Evaluation of electroencephalography and heart rate variability changes associated with various anesthetic protocols in the premedicated and non-premedicated dogs

DETERMINING THE ROLE OF THE MICROBIOME, METABOLOME, AND GASTROINTESTINAL TRACT PHYSIOLOGY IN DIETARY LOW-DOSE ANTIMICROBIAL FUNCTION IN FEEDLOT CATTLE IN ORDER TO DEVELOP EFFECTIVE ALTERNATIVES

STABLE ISOTOPE INFUSION

Efficacy of novel tagging protocol on Yellow Perch (*Perca flavescens*) to determine effects of maternal spawning stock biomass on the timing and duration of the spawning season.

GENE-ENVIRONMENT INTERACTIONS DURING MOUSE NEURAL DEVELOPMENT

Neural and molecular mechanisms of memory for context

TARGETED SMALL MOLECULE CONJUGATES TO MOUSE MODELS OF ALZHEIMERS

GENE THERAPY DEVELOPMENT FOR HUMAN GENETIC DISEASES

VARIATIONS IN CAPTIVE CANID VOCALIZATIONS

EFFECTS OF PREENING CUPS ON WELFARE OF GROW-OUT PEKIN DUCKS

EPIGENETICS OF STRESS IN PEKIN DUCKS

CHARACTERIZATION OF THE RYR2/IRBIT AXIS IN PANCREATIC BETA CELLS

PRECISION FEEDING OF AMINO ACIDS BASED ON PRE-PARTUM METABOLIC STATUS OF DAIRY CATTLE

INTENSIFICATION OF FIRST YEAR LARGEMOUTH BASS (*MICROPTERUS SALMOIDES*) USING ALTERNATIVE POND-BASED PRODUCTION SYSTEM

COLOTRUM INDUCTION OF PEROXISOMES: MAKING THE LINK BETWEEN PERINATAL NUTRITION AND FERTILITY IN SWINE

TOXICOLOGY STUDY IN DOGS

USING COOLING & MORNING OLEIFERA TO MITIGATE OXIDATIVE STRESS AND INFLAMMATION IN HEAT STRESSED SOWS & IMPROVE MILK PRODUCTION

EFFECTS OF OXIDATIVE STRESS AND BILIRUBIN ON PHOSPHATIDYLSERINE EXTERNALIZATION IN CANINE ERYTHROCYTES IN VITRO

PRE-CLINICAL EVALUATION OF MRI COMPATIBLE DEVICES

INCREASING FEED EFFICIENCY BY ATTENUATING THE TRANSPORTATION STRESS RESPONSE IN NURSERY PIGLETS THROUGH L-TRYPTOPHAN SUPPLEMENTATION

PATHOGENESIS AND TREATMENT OF FUNGAL AND BACTERIAL INFECTIONS IN THE SKIN

MULTI-SITE, LONGITUDINAL TRIAL EVALUATION THE EFFICACY, MECHANISMS, AND MODERATORS OF SERVICE DOGS FOR MILITARY VETERANS WITH PTSD

DEVELOPMENT OF A QUESTIONNAIRE FOR THE DETECTION OF COGNITIVE DECLINE IN ELDERLY CATS

ANIMAL DISSECTIONS FOR COURSES TAUGHT IN THE DEPARTMENT OF ANIMAL SCIENCE

TRANSDERMAL APPLICATION OF OZONE

ENVIRONMENTAL AND GENETIC STRATEGIES FOR IMPROVING LEG HEALTH AND WALKING ABILITY OF COMMERCIAL TURKEYS

PROTOTYPE DRAINAGE DEVICE FOR PLEURAL EFFUSION EVALUATION

PIGLET MODEL OF NECROTIZING ENTEROCOLITIS

CDC14 PHOSPHATASE - NOVEL ROLES IN DRUG RESISTANCE, VIRULENCE, AND THE RESPONSE TO CELL WALL STRESS IN FUNGAL PATHOGENS

ESTROGENIC REGULATION OF VOCAL FOLD SYSTEMIC DEHYDRATION

COMPROMISED RESOLUTION OF INFLAMMATION FOLLOWING NANOPARTICLE EXPOSURE IN METABOLIC SYNDROME

Nanopulse technology for wound healing

Targeting of imaging and therapeutic agents to macrophages in diabetes

Role of AGE/RAGE Signaling in Modulating Tendon Pathology and Healing in Diabetes

THE USE OF RECOMBINANT ZONA PELLUCIDA AND SPERM PROTEINS AS CONTRACEPTIVE VACCINES

PRECLINICAL COMPARISON OF TWO HYPMETHYLATING NUCLEOSIDES IN TUMOR-BEARING DOGS

Agent Based Modeling to improve cage-free housing systems: What does the hen see?

Intramuscular Implants of Acellular and Cellular Biomaterials

ANSC 303 Environmental enrichment for pigs and poultry

ADOPTIVE CELL TRANSFER IMMUNOTHERAPY IN VIVO

Influence of resource availability on broiler chicken gait and activity level

ANSC 24000

Use of high oleic acid soybean meal to increase energy status in dairy cows

Colonization and succession of the intestinal microbiome in normal and low birth weight piglets

Safety and tolerability of rapid intravenous administration of undiluted levetiracetam in dogs with seizures

STUDIES ON NOVEL PEPTIDOGLYCAN ADJUVANTS

Assessing and mitigating the impact of intestinal inflammation on the physiology and microbiome of swine

Evaluation of dietary fiber inclusion on semen production, body weight, metabolic indicators, and appetite behaviors in mature AI boars

Sulfoquinovosylacylpropanediol (SQAP) for Dogs with Advanced nasal Carcinoma:
Efficacy as Radiation Sensitizer and Safety Following a Short Course of Palliative
Radiation Therapy over 5 Days.

Influence of the Tumor Microenvironment on Radiation Induced Immune Response in
Syngeneic Mouse Model

TARGETING OF IMAGING AND THERAPEUTIC AGENTS TO MACROPHAGES IN TRANSPLANTS

Nanoparticle Biodistribution Study

Prenatal alcohol exposure, microbiome, and inflammation

UTILITY OF (1-3) - BETA - D-GLUCAN ASSAY TO DIAGNOSE EQUINE KERATOMYCOSIS
VAGINAL SWAB SAMPLE COLLECTION AFTER SINGLE AND REPEAT DOSE ADMINISTRATION TO FEMALE SHEEP
Evaluating oxythermal habitat use of <i>Coregonus artedii</i> in Indiana utilizing acoustic telemetry
Delineating the neural basis of pain signaling in a mouse model of osteoarthritis for targeted neuromodulation
Development of Molecular and Functional Medical Imaging Biomarkers in Rodents
Ligand-Mediated Detection and Treatment of Metastatic Lung Cancer, Including Tumors Localized in the Central Nervous System
Animal Aging Facility General Protocol
Addition of exogenous glucoamylase enzyme to corn silage-based beef cattle diets in order to increase animal growth and efficiency
INVESTIGATION OF DIFFERENT TYPES OF RESISTANT STARCHES IN DIFFERENT REGIONS OF THE LARGER INTESTINE OF MICE
Poultry Health Management School 2022
Testing of essential oil products in dairy cows
EVALUATION OF ANIMAL WELFARE ASSOCIATED WITH CHANGES IN RODENT HOUSING
TESTING OF PROTOTYPE DRUG ELUTING URETHRAL DEVICES
F-WAVES AS A PROGNOSTIC INDICATOR IN DOGS WITH THORACOLUMBAR INTERVERTEBRAL DISC EXTRUSION WITH ABSENT DEEP PAIN PERCEPTION
INFLAMMATION AND ITS RESOLUTION IN SKELETAL MUSCLE PLASTICITY

PER-ANIMAL NUTRITION MONITORING IN GROUP PRODUCTION SETTINGS

VOCALIZATIONS AS A FLOCK WELFARE INDICATOR IN THE POULTRY INDUSTRY

INTEGRATING WEARABLE OPTICAL TAGS AND VIDEO ANALYTICS TO IMPROVE THE WELFARE OF GROUP-HOUSED ANIMALS

WOUND CLOSURE ABILITY OF A BIO-BASED TISSUE SEALANT

FECAL MICROBIOTA TRANSPLANT TO REDUCE POST-WEANING DIARRHEA AND ANTIBIOTIC USE

NOVEL THERAPIES FOR TREATMENT OF LATE-STAGE PROSTATE CANCER

EFFECTS OF INCUBATOR LIGHTS ON HATCHABILITY AND WELFARE OF BROILERS

NEUTROPHIL TARGETED DRUG DISCOVERY USING MICE

REFINEMENT OF RODENT EUTHANASIA