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<td>SALLY A NASS, BETTINA WAGNER</td>
<td>MORRIS ANIMAL FOUNDATION</td>
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<td>ANDREW ALLISON, COLIN PARRISH</td>
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<td>SCOTT COONROD</td>
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<td>IDENTIFICATION OF XX DSD MUTATIONS BY RNA-SEQ AND COMPARATIVE GENOMICS</td>
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<td>THE ROLE OF THE FCV CAPSID STRUCTURE AND ITS FLEXIBILITY IN ELICITED ANTIBODY RESPONSES</td>
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<td>ALEXANDER TRAVIS, GERLINDE VAN DE WALLE, ROY COHEN</td>
<td>SUNY UPSTATE MEDICAL UNIVERSITY</td>
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<td>EVALUATION OF ANTIVIRAL DRUGS IN AN AIR-LIQUID CORNEA ORGAN CULTURE SYSTEM OF FHV-1 INFECTION</td>
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<td>SMALL RNA PATHWAYS IN MAMMALIAN GAMETOGENESIS</td>
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BETHANY CUMMINGS  
PHYSICIAN  
UNIVERSITY OF CALIFORNIA DAVIS (NIH)  
DISSERNTING MECHANISM BY WHICH GI SURGERY DELAYS  
DIABETES ONSET IN UCD-T2DM RATS  
$172,306

BETHANY CUMMINGS  
PHYSICIAN  
ELI Lilly Co.  
ROLE OF TGRS SIGNALING AND THE GUT MICROBIOME IN THE  
GLUCOREGULATORY BENEFITS OF VERTICAL SLEEVE  
GASTRECTOMY  
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ROBIN DAVIS  
PHYSICIAN  
CORNELL JOAN AND SANFORD I. WEILL MEDICAL COLLEGE (NIH)  
FOREBRAIN PLASTICITY IN HYPERTENSION: CORE D  
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ROBIN DAVIS  
PHYSICIAN  
CORNELL JOAN AND SANFORD I. WEILL MEDICAL COLLEGE (NIH)  
PPG-GENETIC AND SIGNALING MECHANISMS IN THE CENTRAL  
REGULATION OF BLOOD PRESSURE (PROJECT 1)  
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JOANNE FORTUNE  
PHYSICIAN  
USDA-FEDERAL FORMULA FUNDS  
OVARIAN INFLUENCES ON REPRODUCTIVE SUCCESS IN  
RUMINANTS  
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JESSICA HAYWARD, ADAM BOYKO  
PHYSICIAN  
THE STANTON FOUNDATION  
DEVELOPING GENOMIC APPROACHES FOR USING MIXED  
BREED DOGS TO ACCELERATION CANINE GENETIC RESEARCH  
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KATHLEEN KELLY  
PHYSICIAN  
FELINE HEALTH CENTER  
UNDERSTANDING THE ROLE OF INFECTIOND DISEASE IN FELINE  
CARDIAC DISEASE  
$39,234

MICHAEL KOTLIKOFF  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
CALCIUM SIGNALING IN THE CEREBROVASCULAR UNIT IN  
HEALTH AND DISEASE  
$37,389

MICHAEL KOTLIKOFF  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
GENETIC RESOURCE FOR OPTICAL SIGNALING  
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MICHAEL KOTLIKOFF  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
VASCULAR PRECURSORS AND CELL-CELL SIGNALING IN HEART  
VASCULOGENESIS  
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DAVID LIN  
PHYSICIAN  
RESEARCH GRANTS PROGRAM IN ANIMAL HEALTH  
SINGLE CELL ANALYSIS OF AXON GUIDANCE  
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HEINRICH LOB, ROBIN DAVIS  
PHYSICIAN  
AMERICAN HEART ASSOCIATION  
CENTRAL MECHANISMS OF ANGIOTENSIN-DEPENDENT  
HYPERTENSION: NADPH OXIDASE INSOFORMS AND  
ENDOPLASMIC STRESS  
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MARY MARTIN, PHILIPPE BANEUX  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
CORNELL CARE RESIDENCY PROGRAM IN LABORATORY ANIMAL  
MEDICINE  
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LAURA MCENDAFFER, KATHLEEN KELLY  
PHYSICIAN  
MORRIS ANIMAL FOUNDATION  
UNDERSTANDING THE ROLE OF INFECTIOND DISEASE IN FELINE  
MYOCARDITIS AND RESTRICTIVE CARDIOMYOPATHY  
$5,000

ANDREW MILLER  
PHYSICIAN  
BOSTON COLLEGE (NIH)  
MONOCYTE/MACROPAHGE TRAFFIC AND PERIPHERAL NERVE  
PATHOGENESIS  
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ELIZABETH MOORE, ROBERT WEISS  
PHYSICIAN  
RESIDENT RESEARCH GRANTS PROGRAM  
ROLES OF PS5 IN  
PROTECTING AGAINST FATTY LIVER DISEASE AND HEPATIC  
TUMORIGENESIS  
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ALEXANDER NIKITIN  
PHYSICIAN  
NYS DEPT OF HEALTH  
ROLES OF OVARIAN SURFACE EPITHELIUM STEM CELLS  
$357,727

ALEXANDER NIKITIN  
PHYSICIAN  
NYS DEPT OF HEALTH  
CORNELL SHORT TERM FACULTY TRAINING AND  
COLLABORATIVE OPPORTUNITIES PROGRAM  
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ALEXANDER NIKITIN, JOHN SCHIMENTI  
PHYSICIAN  
OVARIAN CANCER RESEARCH FUND  
CANCER-PREMON STEM CELL NICHES IN OVARIAN AND TUBAL  
EPITHELIUM  
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MARK ROBERSON, PAULA COHEN  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
REPRODUCTIVE BIOLOGY AND GENOMICS TRAINING  
PROGRAM  
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JOHN SCHIMENTI  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
GENETICS OF MEIOSIS AND RECOMBINATION IN MICE  
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JOHN SCHIMENTI, ALEXANDER NIKITIN  
PHYSICIAN  
NYS DEPT OF HEALTH  
CORNELL STEM CELL AND TRANSGENICS CORE FACILITY  
(PQD2) MOLECULAR BASIS FOR THE CHEMOSENSITIVITY OF  
TESTICULAR GERM CELL CANCERS  
$202,275

MARCUS SMOLKA, ROBERT WEISS  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
CELLULAR RESPONSES TO DNA REPLICATION STRESS  
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MARCUS SMOLKA, RICHARD CERIONE, ROBERT WEISS  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
SUCCINYLATION AND MALONYLATION AS NOVEL PROTEIN  
MODIFICATIONS IN CANCER  
$119,316

ANDREW YEN  
PHYSICIAN  
NYS DEPT OF HEALTH  
FLOW CYTOMETRY CORE LABORATORY TO SUPPORT STEM  
CELL RESEARCH  
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LEILA ULLMAN, JOHN HERMANSON  
PHYSICIAN  
CORNELL ATKINSON CENTER FOR A SUSTAINABLE FUTURE  
VIRAL RESEARCH IN NORTHERN AND TROPICAL BATS  
$75,000

COLIN YOUNG, ROBIN DAVIS  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
ROLE OF CENTRAL NEURAL NFKB AND ER STRESS OBESE-  
INDUCED HYPERTENSION  
$87,112

NOAH ABOU-MADI, DANIEL FLETCHER  
PHYSICIAN  
INTERNATIONAL ELEPHANT FOUNDATION  
THERAPEUTIC LEVELS OF AMINOCAPROIC ACID IN ASIAN  
ELEPHANTS (ELEPHAS MAXIMUS)  
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LUIS CAMPOY  
PHYSICIAN  
MILESTONE MEDICAL  
TESTING OF NOVEL INSTRUMENT FOR EQUINE MAXILLARY  
NERVE BLOCKS  
$1,669

JENNIFER CASSANO, LISA FORTIER  
PHYSICIAN  
MORRIS ANIMAL FOUNDATION  
MACROPHAGE REGULATION OF MESENCHYMAL STEM CELL  
FUNCTION IN TISSUE REGENERATION  
$50,000

MARTA CERCONE, NORMAND DUCHARME, JONATHAN CHEETHAM  
PHYSICIAN  
MED-EL  
LARYNGEAL PACEMAKER IN HORSES  
$23,500

JONATHAN CHEETHAM  
PHYSICIAN  
NATIONAL INSTITUTE OF HEALTH  
MANIPULATING MACROPHAGE PHENOTYPE IN LARYNGEAL  
NERVE REPAIR  
$163,657

JONATHAN CHEETHAM  
PHYSICIAN  
ZWEIG MEMORIAL FUND  
REGENERATIVE APPROACH TO RECURRENT LARYNGEAL  
NEUROPATHY  
$57,494

JONATHAN CHEETHAM  
PHYSICIAN  
EPIMED INTERNATIONAL, INC.  
LONG TERM STABILITY OF CONTINUOUS INFUSION PERIPHERAL  
NERVE BLOCK CATHETER  
$6,940

SOON HON CHEONG, ROBERT GILBERT, RODRIGO BICALHO  
PHYSICIAN  
USDA-FEDERAL FORMULA FUNDS  
MATERNAL MICROBIOME AND RELATIONSHIP WITH  
NEONATAL HEALTH IN DAIRY COWS  
$25,000

CALLUM DONNELLY, SOON HON CHEONG  
PHYSICIAN  
RESIDENT RESEARCH GRANT PROGRAM  
NEUTROPHIL EXTRACELLULAR TRAP FUNCTION IN EQUINE  
NEONATES  
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CLINICAL SCIENCES

$1,881,463
MICHELE EDELLENN, ERIC LEBETTER RESIDENT RESEARCH GRANTS PROGRAM AUTOLOGOUS PLATELET RICH PLASMA TREATMENT FOR CANINE INDOLENT CORNEAL ULCERS $9,859

JULIA FELIPPE NATIONAL INSTITUTE OF HEALTH EPIGENETICS: A NOVEL APPROACH IN PRIMARY IMMUNODEFICIENCIES $462,000

DANIEL FLETCHER WALTHAM FOUNDATION LONG CHAIN OMEGA-3 FATTY ACIDS: A POTENTIAL PROPHYLACTIC THERAPY FOR DOGS AT RISK OF THROMBOEMBOLISM $24,992

LISA FORTIER HOSPITAL FOR SPECIAL SURGERY THE PREVENTION AND TREATMENT OF POST TRAUMATIC OSTEOARTHRITIS $36,941

LISA FORTIER COLUMBIA UNIVERSITY (NIH) KNEE MENISCUS REGENERATION $180,223

LISA FORTIER ARTHREX INC. EQUINE ANGEL STUDY PROTOCOL $120,093

LISA FORTIER ZWEIG MEMORIAL FUND SUBTLE MENISCAL INJURY AS AN INITIATING EVENT IN THE DEVELOPMENT OF SUBCHONDRAL BONE CYSTS $20,459

SUSAN FUBINI, ROLFE RADCLIFFE CORNELL UNIVERSITY/WEILL MEDICAL COLLEGE BACTERIAL CELLULOSE AND PLGA FIBER SCAFFOLDS INCORPORATING AN AMAZONIAN THERAPEUTIC OIL FROM COPAIFERA $49,794

ROBERT GILBERT, RODRIGO BICALHO USDA-FEDERAL FORMULA FUNDS CERVICITIS AS A COMPONENT OF POSTPARTUM REPRODUCTIVE DISEASE IN DAIRY COWS $30,000

ROBERT GILBERT ZWEIG MEMORIAL FUND CONTROLLED POSTPONEMENT OF OVULATION IN MARES $49,150

JACQUELINE HILL, LISA FORTIER ZWEIG MEMORIAL FUND DYNAMICS OF MSC IMMUNEPRIVILEGED STATUS IN AN INFLAMED ENVIRONMENT $8,815

KELLY HUME THE WINN FELINE FOUNDATION MANIPULATION OF DNA DAMAGE RESPONSES TO INCREASE THE CHEMOSENSITIVITY OF FELINE INJECTION SITE SARCOMAS $12,969

SARRAH KAYE, DANIEL FLETCHER RESIDENT RESEARCH GRANTS PROGRAM COAGULATION AND FIBRINOLYSIS IN HEALTHY AND OTOSTRONGYLUSS-INFECTED ELEPHANT SEALS $9,913

URSULA KROTSCHKE RESEARCH GRANTS PROGRAM IN ANIMAL HEALTH EFFECT OF SURGICAL TECHNIQUE FOR CRANIAL CRUCIATE RUPTURE ON LONG-TERM FUNCTION AND STIFLE LOADING PATTERNS IN THE DOG $12,260

ELIZABETH LEACH, URSULA KROTSCHKE RESIDENT RESEARCH GRANTS PROGRAM EFFECT OF TPLO ON LONG-TERM STIFLE LOADING PATTERNS IN THE DOG $10,000

JO-ANNIE LETENDRE, ROBERT GOGGS RESIDENT RESEARCH GRANTS PROGRAM DETERMINING PROGNOSIS IN CANINE SEPISTIS BY BEDSIDE MEASUREMENT OF CELL-FREE DNA $9,997

MANUEL MARTIN FLORES AMERICAN ASSOCIATION FOR LABORATORY ANIMAL SCIENCE THE GASTROINTESTINAL SIDE-EFFECTS OF BUPRENORPHINE IN RABBITS, AND A POSSIBLE ANTIANTIDOTE $8,873

MANUEL MARTIN FLORES GALLEON PHARMACEUTICALS INC. EVALUATION OF A RESPIRATORY STIMULANT IN DOGS $13,507

ALAN NIXON ZWEIG MEMORIAL FUND EVALUATION OF LUBRICIN AS A NEW BIOTHERAPEUTIC FOR EQUINE JOINT DISEASE $91,920

ALAN NIXON ZWEIG MEMORIAL FUND ENHANCED BREAKDOWN SCREENING IN THOROUGHBRED RACEHORSES THROUGH MULTIMODAL IMAGING AND SERUM BIOMARKER COMBINATIONS $62,074

TERESA NOE, KELLY HUME RESIDENT RESEARCH GRANTS PROGRAM EFFECTS OF HU51 IMPAIRMENT ON TISSUE SENSITIVITY TO CISPLATIN $8,913

KYLJ ORTVED ZWEIG MEMORIAL FUND HARNESSING THE IMMUNOMODULATORY PROPERTIES OF INTERLEUKIN-10 THROUGH A GENE THERAPY APPROACH TO PREVENT EQUINE OSTEOARTHRITIS $28,814

EVA OXFORD, N SYDNEY MOISE AMERICAN COLLEGE OF VETERINARY INTERNAL MEDICINE FOUNDATION IDENTIFICATION OF GENETIC MUTATIONS ASSOCIATED WITH THE DEVELOPMENT OF DEGENERATIVE MITRAL VALVE DISEASE IN THE SMALL BREED DOG $4,250

ROLFE RADCLIFFE ZWEIG MEMORIAL FUND EN Bloc REMOVAL OF INTRAVASCULAR THROMBI VIA AN EXTRACORPOREAL BYPASS CIRCUIT IN EXPERIMENTALLY INDUCED JUGULAR THROMBOSIS IN HORSES $25,144

ROBIN RADCLIFFE, JULIA FELIPPE MORRIS ANIMAL FOUNDATION TABANID FLY VECTOR BIOLOGY DRIVING TRYPANOSOME INFECTION IN ULUNG KULON NATIONAL PARK, INDONESIA $58,519

HEIDI REESINK, ALAN NIXON GRAYSON-JOCKEY CLUB RES FOUNDATION LUBRICIN AS A BIOTHERAPEUTIC FOR EQUINE JOINT DISEASE $15,000

PETER SCRIVANI BERNICE BARBOUR FOUNDATION IS DEAFNESS AFTER GENERAL ANESTHESIA RELATED TO HEAD AND NECK POSITION IN DOGS? $13,970

KENNY SIMPSON CORNELL JOAN AND SANFORD I. WEIL MEDICAL COLLEGE (NIH) MECHANISMS OF HOST-BACTERIAL INTERACTIONS, ILEITIS AND GRANULOMA FORMATION IN AGAR2/- MICE $54,448

KENNY SIMPSON UNIVERSITY OF CALIFORNIA, LOS ANGELES (CROHN'S AND COLITIS FOUNDATION) ESTABLISHING MECHANISTICALLY VALIDATED TARGETS AND LEAD MOLECULES FOR MICROBIOME-BASED THERAPY IN IBD $107,635

KENNY SIMPSON VERTEX PHARMACEUTICALS (CANADA) INC. TESTING OF TWENTY (20) FFPE SAMPLES IN SIMPSON'S FISH ASSAY $5,000

KENNY SIMPSON, ADAM BOYKO AMERICAN KENNEL CLUB CANINE HEALTH FOUNDATION GRANULOMATOUS COLITIS IN BOXER DOGS AND FRENCH BULLDOGS: MAPPING OF DISEASE ASSOCIATED LOCI AND FUNCTIONAL ANALYSIS OF BACTERIAL KILLING $92,928

BLAKE TRAVIS, GALEN HAYES RESIDENT RESEARCH GRANTS PROGRAM EFFECT OF TACKING SUBCUTANEOUS TISSUES ON PREVENTION OF INCISIONAL COMPLICATIONS $9,995

MICROBIOLOGY AND IMMUNOLOGY $6,456,523

AVERY AUGUST NATIONAL INSTITUTE OF HEALTH SELECTIVE ARYL HYDROCARBON RECEPTOR MODULATORS AND T CELL EFFECTOR FUNCTION $237,313
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<td>DONNA CASSIDY-HANLEY, JAMES CASEY</td>
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<td>STUDENTS ENGAGING THE ENVIRONMENT: A STUDENT AND SCIENTIST COLLABORATION TO ASSESS AQUATIC INVASIVE SPECIES</td>
<td>$19,010</td>
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<td>THEODORE CLARK</td>
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<td>A RESOURCE CENTER FOR TETRAHYMENA THERMOPHILA</td>
<td>$643,896</td>
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<td>SHARING ASSETS: EXPANDING SCIENCE OPPORTUNITIES IN K-12 CLASSROOMS</td>
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<td>SUSAN DANIELS, GARY WHITTAKER</td>
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<td>VIRAL COAT PROTEIN ARRAYS FOR RAPID DEVELOPMENT AND SCREENING OF ANTI-FUSOGENIC ANTIVIRALS AGAINST EBOLAVIRUS</td>
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<td>ERIC DENKERS</td>
<td>NATIONAL INSTITUTE OF HEALTH</td>
<td>ROLE OF DC WNT/BETA-CATENIN SIGNALING IN TOXOPLASMA INFECTION</td>
<td>$193,750</td>
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<td>RODMAN GETCHELL</td>
<td>USDA-FFF-ANIMAL HEALTH - CUAES</td>
<td>IS VIRAL HEMORRHAGIC SEPTICEMIA LIMITING MUSKELLUNGE ABUNDANCE IN THE THOUSAND ISLANDS</td>
<td>$29,000</td>
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<td>RODMAN GETCHELL</td>
<td>NEW YORK SEA GRANT INSTITUTE, STONY BROOK</td>
<td>THE POTENTIAL IMPACT OF HSV ON THE POPULATION RECOVERY OF ST. LAWRENCE RIVER MUSKELLUNGE</td>
<td>$86,566</td>
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<td>FOOD &amp; DRUG ADMINISTRATION</td>
<td>THE SAFETY OF STRONTIUM CHLORIDE AS A SKELETAL MARKING AGENT FOR PACIFIC SALMON</td>
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<td>WEISHAN HUANG, AVERY AUGUST</td>
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<td>CORNELL CENTER FOR VERTEBRATE GENOMICS</td>
<td>TRANSCRIPTOMIC ANALYSIS OF MACROPHAGE MECHANOSENSING</td>
<td>$26,728</td>
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<td>CORNELL UNIVERSITY/UNIVERSITY OF ROCHESTER (NIH)</td>
<td>MECHANOSENSING BY LEUKOCYTES DURING INFLAMMATION (COLLABORATIVE TRANS-INSTITUTIONAL PILOT AWARD PROGRAM)</td>
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<td>ROLE OF TRR9 IN INFECTION AND HOST RESPONSE TO HHV-6A</td>
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<td>HELENE MARQUIS</td>
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<td>BACTERIAL PILUS AS VACCINE TARGET FOR STRANGLES</td>
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<td>BRIAN RUDD</td>
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<td>MECHANISMS LIMITING NEONATAL IMMUNITY</td>
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<td>REGULATION OF NEONATAL IMMUNITY BY LET-7/LIN28</td>
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<td>DAVID RUSSELL</td>
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<td>ENVIRONMENTAL CUES AND RESPONSES IN TUBERCULOS</td>
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<td>DAVID RUSSELL</td>
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<td>THE ROLE OF THE GRANULOMA IN M. TUBERCULOS INFECTION</td>
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<td>DAVID RUSSELL</td>
<td>MICHIGAN STATE UNIVERSITY (NIH)</td>
<td>THE ROLE OF MONOCYTES IN THE PATHOLOGY OF SEVERE MALARIA</td>
<td>$164,405</td>
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<td>NOVEL HIGH-THROUGHPUT DRUG SCREENS FOR INHIBITORS WITH ENHANCED IN VIVO ACTIVITY AGAINST MTB</td>
<td>$500,479</td>
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<td>BRIAN VANDERVEN</td>
<td>NATIONAL INSTITUTE OF HEALTH</td>
<td>EXPLOITING METABOLIC TOXICITIES TO IDENTIFY COMPOUNDS THAT INHIBIT CHOLESTEROL METABOLISM IN M. TUBERCULOSIS</td>
<td>$387,500</td>
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<td>GARY WHITTAKER</td>
<td>FELINE HEALTH CENTER</td>
<td>MOLECULAR CHARACTERIZATION OF ANTIBODY-DEPENDENT ENHANCEMENT OF FIPV INFECTION</td>
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<td>GARY WHITTAKER</td>
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<td>SPIKE PROTEIN CLEAVAGE-ACTIVATION AND EMERGENCE OF CORONAVIRUSES WITH EXTENDED TROPISM</td>
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<td>GARY WHITTAKER</td>
<td>MORRIS ANIMAL FOUNDATION</td>
<td>FIPV SPIKE MUTATIONS AFFECTING MONOCYTE/MACROPHAGE TROPISM</td>
<td>$61,109</td>
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<td>GARY WHITTAKER</td>
<td>UNIVERSITY OF ROCHESTER (NIH)</td>
<td>VIRAL MARKERS OF INFLUENZA PATHOGENESIS: CLEAVAGE-ACTIVATION OF HA BY HOST AND BACTERIAL PROTEASES SYSTEMIC FELINE CORONAVIRUS AND ITS RELATIONSHIP TO FIP</td>
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<td>GARY WHITTAKER</td>
<td>THE WINN FELINE FOUNDATION</td>
<td>$24,967</td>
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**MOLECULAR MEDICINE**

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<th>Name</th>
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<td>RICHARD CERIONE</td>
<td>NATIONAL INSTITUTE OF HEALTH</td>
<td>ROLES OF CDC42 AND SIGNALING PARTNERS IN CELL GROWTH AND DIFFERENTIATION</td>
<td>$306,900</td>
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<td>RICHARD CERIONE</td>
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<td>CHARACTERIZATION OF GROWTH FACTOR-COUPLED SIGNALING</td>
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<td>RICHARD COOLEY, HOLGER SONDERMANN, MAURINE LINDER</td>
<td>NATIONAL INSTITUTE OF HEALTH</td>
<td>MECHANISM AND FUNCTION OF A CONSERVED BACTERIAL CYCLIC-DI-GMP RECEPTOR SYSTEM</td>
<td>$53,282</td>
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<td>LAURA DESROCHERS, RICHARD CERIONE</td>
<td>NATIONAL INSTITUTE OF HEALTH</td>
<td>THE ROLE OF MICROVESICLES IN PROMOTING CELL GROWTH, SURVIVAL AND DIFFERENTIATION</td>
<td>$78,756</td>
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<td>KINSLEY FRENCH, RICHARD CERIONE</td>
<td>NATIONAL INSTITUTE OF HEALTH</td>
<td>DEFINING THE FUNCTIONS OF EXTRACELLULAR SHED VESICLES IN CANCER PROGRESSION</td>
<td>$50,690</td>
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<td>TOSHIMITSU KAWATE</td>
<td>INTERNATIONAL HUMAN FRONTIER SCIENCE PROGRAM ORGANIZATION</td>
<td>HORMONE DELIVERY IN PLANTS: MECHANISMS AND PHYSIOLOGICAL ROLES OF GIBBERELIC ACID TRANSPORTERS</td>
<td>$116,666</td>
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<td>NATASZA KURPIOS</td>
<td>NATIONAL INSTITUTE OF HEALTH</td>
<td>MECHANISMS UNDERLYING ASYMMETRIC ROTATION AND VASCULAR DEVELOPMENT OF THE MIDGUT</td>
<td>$331,870</td>
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**TOTAL**

$2,640,841
CRAIG ALTIER  
NATIONAL INSTITUTE OF FOOD AND AGRICULTURE-USDA  
REGULATION OF SALMONELLA VIRULENCE BY INTESTINAL FATTY ACIDS  
$429,730

ERICA BEHLING-KELLY  
RESIDENT RESEARCH GRANTS PROGRAM  
DOES CHOLESTROL PROTECT BLOOD CLOTS? EXPLORING THE INHIBITORY EFFECTS OF LDL ON FIBRINOLYSIS IN DOG FECAL MICROBIOTA.  
$2,500

RODRIGO BICALHO  
USDA-FEDERAL FORMULA FUNDS  
METAGENOMIC PROFILE OF RUMINAL AND FECAL MICROBIAL COMMUNITIES ASSOCIATED WITH HIGH MILK, PROTEIN AND FAT PRODUCTION  
$30,000

RODRIGO BICALHO  
MERCK ANIMAL HEALTH  
STUDY TO EVALUATE THE EFFECT OF ZUPREVO ON INCIDENCE OF PNEUMONIA AND OTITIS AS WELL AS CALF SURVIVABILITY  
$32,319

RODRIGO BICALHO, ROBERT GILBERT  
TEXAS A&M UNIVERSITY (USDA/NIFA)  
GENOMIC SELECTION FOR IMPROVED FERTILITY OF DAIRY COWS WITH EMPHASIS ON CYCLICITY AND PREGNANCY RECOMBINANT BOVINE IL-8 THERAPY TO PREVENT RETAINED PLACENTA AND IMPROVE UTERINE HEALTH  
$20,857

RODRIGO BICALHO, ROBERT GILBERT  
ZOETIS  
DYNAMICS OF THE MAMMARY MICROBIOTA DURING AND AFTER INTRAMAMMARY INFECTION WITH MAJOR MASTITIS PATHOGENS  
$208,415

KARYN BISCHOFF  
FOOD & DRUG ADMINISTRATION  
ANIMAL FEED AND PET FOOD SAFETY COOPERATIVE AGREEMENT WITH FDA/VET-LRN  
$16,500

ELIZABETH BUNTING, AMY GLASER  
RESEARCH GRANTS PROGRAM IN ANIMAL HEALTH  
EVALUATION OF THE IMPACT OF CHYTRIDIOMYCOSIS FUNGAL INFECTION ON SURVIVAL SUCCESS OF CAPTIVE REARED AND RELEASED EASTERN HELLBENDERS (CRYPTOBANCHUS ALLEGIANISIS)  
$36,198

YU-FU CHANG  
USDA-FEDERAL FORMULA FUNDS  
GENOMICS APPROACH FOR IMPROVED DIAGNOSIS OF FOOD-BORNE PATHOGENS  
$30,000

MARGARET FREY, ELIZABETH BERLINER  
ATKINSON CENTER FOR A SUSTAINABLE FUTURE  
IMPROVING METHODS OF IDENTIFY FREE-ROAMING DOGS: AN INITIATIVE TO ENHANCE RABIES CONTROL PROGRAMS, ADVANCE CANINE POPULATION MANAGEMENT MEASURES, AND IMPROVE COMMUNITY HEALTH  
$5,580

GLORIA GIOIA, PAOLO MORONI, DARYL NYDAM, AMY GLASER, LAURA GOODMAN  
SAFEGUARD BIOSYSTEMS HOLDINGS LTD.  
MICROARRAY DEVELOPMENT  
$97,911

YURO GROHN, LOREN TAUER, YNTE SCHUKKEN, MICHAEL STANHOPE  
NATIONAL INSTITUTE OF FOOD AND AGRICULTURE-USDA  
US-UK COLLAB: MYCOBACTERIAL TRANSMISSION DYNAMICS IN AGRICULTURAL SYSTEMS: INTEGRATING PHYLOGENETICS, EPIDEMIOLOGY, ECOLOGY, AND ECONOMICS  
$511,409

YURO GROHN  
STEP ANALYSIS LLC (USDA/NIFA)  
DEVELOPING A HIGH SENSITIVITY, HIGH SPECIFICITY LAMENESS DETECTION SYSTEM FOR DAIRY CATTLE  
$99,954

YURO GROHN  
UNIVERSITY OF NEBRASKA (USDA-NIFA)  
GENOME WIDE ANALYSIS OF M. PARATUBERCULOSIS PATHOGENESIS  
$13,890

JESSICA MCART  
CORNELL PRESIDENT’S COUNCIL OF CORNELL WOMEN (PCCW)  
THE ASSOCIATION OF BLOOD CALCIUM AND ?-HYDROXYBUTYRATE CONCENTRATIONS IN PERIPARTURIENT DAIRY CATTLE  
$8,040

JESSICA MCART  
HORIBA INSTRUMENTS INCORPORATED  
LAQUATWIN CALCIUM METER VALIDATION TRIAL  
$6,909

HUSSNI MOHAMMED, YU-FU CHANG, GERALD DUHAMEL, PATRICK MCDONOUGH  
USDA-FFF-ANIMAL HEALTH - CUAES  
WHOLE FARM DAIRY AND BEEF SYSTEMS: GASEOUS EMISSIONS, P MANAGEMENT, ORGANIC PRODUCTION, AND PASTURE BASED PRODUCTION  
$30,000

The total amount of funding is $3,166,117.
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<td>Hussni Mohammed, Yung-Fu Chang, Gerald Duhamel, Patrick Mcdonough, Susan Wade</td>
<td>Strategies to Mitigate the Risks Associated With Foodborne Pathogens and Their Adverse Consequences for Citizens of Qatar: From Production to Consumption</td>
<td>$95,765</td>
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<td>Paolo Moroni</td>
<td>Mastitis Resistance to Enhance Dairy Food Safety</td>
<td>$30,000</td>
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<td>Daryl Nydam</td>
<td>The Summer Dairy Institute: An Innovative Training Program for Young Veterinarians in Dairy Production Medicine</td>
<td>$10,000</td>
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<td>Daryl Nydam, Adam Boyko, Rory Toddhunter</td>
<td>Bovine Rotavirus Challenge Model Confirmation</td>
<td>$32,671</td>
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<td>Daryl Nydam, Francis Welcome</td>
<td>Genomic Prediction of Transition Cow Metabolic Drivers for Selection of Productive Dairy Cattle</td>
<td>$30,000</td>
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<td>Paula Ospina, Paul Virker, Daryl Nydam, Michael Zurakowski</td>
<td>Association Between Select Bulk Tank Bacteria Counts and Milk Quality</td>
<td>$59,878</td>
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<td>Robert Ossiboff, Elizabeth Bunting</td>
<td>Vaccinating Eastern Hellbenders (Cryptobranchus Alleganiensis) Against Chytrid Fungus (Batrachochytrium dendrobatidis)</td>
<td>$5,720</td>
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<td>Scott Palmer</td>
<td>Epidemiology/Acute Breakdown Study</td>
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<td>Ned Place</td>
<td>Anti-Mullerian Hormone in Cheetahs: Optimizing Reproductive Management</td>
<td>$17,188</td>
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<td>Brianna Pomeroy, Ynte Schukken</td>
<td>Characterizing Late Gestation Dendritic Cells and Key Parameters Associated with E. Coli Intramammary Infection Dynamics in Dry Cows</td>
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<td>Kristen Roosa, Ned Place</td>
<td>Dissertation Research: The Role of Reproductive Age in the Mating Behaviors and Preferences of Female Hamsters</td>
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<td>Ynte Schukken, Yrjo Grohn</td>
<td>On-Farm Optimal Intervention Programs Resulting in Reduction of Map Bacterial Load in Milk</td>
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<td>Jessica Scillieri Smith</td>
<td>Identification, Distribution, and Characterization of Mastitis Causing Pathogens Previously Identified as 'Other Streptococcal Species'</td>
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<td>Michael Stanhope</td>
<td>Comparative Conservation Genomics of Sharks - Phase 1</td>
<td>$45,000</td>
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<td>White Shark Genome and Comparative Transcriptomics of Sharks</td>
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<td>Tracy Stokol</td>
<td>Platelets Are a Trojan Horse That Deliver Equine Herpes Virus to Endothelial Cells</td>
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<td>Anil Thachil</td>
<td>Investigating Quality of Commercially Available Raw Meat Diets for Companion Animals</td>
<td>$16,500</td>
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<td>Bettina Wagner, USDA-FFF-Animal Health - Cuaes</td>
<td>Preventing Lyme Disease in Horses</td>
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<td>Bettina Wagner, National Institute of Food and Agriculture-Ussa</td>
<td>Equine Immune Reagents: Development of Monoclonal Antibodies to Improve the Analysis of Immunity in Horses</td>
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<td>The Effect of Orf1 and Orf2 Gene Expression on Innate and Adaptive Immunity and Protection Against Equine Herpes Virus Type 1 (EHV-1)</td>
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<td>A Novel Strategy to Boost Antibody Production of EHV-1 in Neonates</td>
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<td>Lorin Warnick, Richard Pereira, Rodrigo Bicalho</td>
<td>Effect of Feeding Dairy Calves Milk Containing Antimicrobial Residues on the Emergence of Resistant Enteric Bacteria</td>
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<td>Martin Wiedmann, Lorin Warnick</td>
<td>Controlling the Spread of Emerging Salmonella Enterica Serovar Cerro Strains in New York State</td>
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<td>Matthias Wieland, Daryl Nydam, Charles Guard</td>
<td>Umbilical Cord Care: Effects on Navel Involution, Calf Health and Growth</td>
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