



JON D. REUTER DVM, MPVM, DACLAM

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Area of expertise/specialties: research administration, regulatory compliance, research misconduct, responsible conduct of research, conflict of interest and commitment, Intuitional Research Board, Institutional Animal Care and Use Committee, Conflict of Interest and Commitment, Export Controls, research security, DEA, cannabis and hemp research, laboratory animal medicine, husbandry and management, fiscal management/cost recovery, veterinary care mixed species (esp: nonhuman primates, mice, rats, aquatics, rabbits, guinea pigs, dogs, cats, ferrets, sheep, field studies, miscellaneous exotics), rodent barrier, quality assurance and pathogen control, lean operational management, OLAW and USDA regulatory compliance, AAALAC accreditation, facility planning and design, biohazard studies, research GEM model development. Research interests: infectious disease/virology, neoplasia, immunology, neuroscience, gene expression.

Education

University of California, Davis, California	Bachelor of Science [Veterinary Sciences]	1994
<i>Dean's Honor List, Alpha Zeta Honor Society, Golden Key National Honor Society, Phi Kappa Phi Honor Society</i>		
University of California, Davis, California	Masters of Preventative Veterinary Medicine	1996
University of California, Davis, California	Doctor of Veterinary Medicine	1996
<i>Phi Zeta Veterinary Medical Honor Society</i>		
University of Michigan, Ann Arbor, Michigan	Postdoctoral Veterinary Research Fellow	1999
Diplomate American College of Laboratory Animal Medicine		2000
<i>Henry and Lois Foster Award for Academic Excellence in Laboratory Animal Medicine</i>		

Professional experience

University of Colorado – Boulder	
Associate Vice-Chancellor of Research	2023-Present
Assistant Vice-Chancellor of Research	2018 - 2023
Research Integrity Officer	2019 - present
Institutional Official for the Animal Care Program	2019 - present
Research Professor, Department of Psychology and Neuroscience	2019 - present
Empowered Official, Export Control Officer	2019, 20, 23
Director of the Office of Animal Resources (OAR), Attending Veterinarian	2015- 2019
Research Associate Professor, Department of Psychology and Neuroscience	2016- 2019

Responsible for compliance with research regulatory requirements for the Research and Innovation Office, University of Colorado Boulder campus, including leadership, operation, direction, and policies and procedure for the following programs:

- Research Security

- Institutional Animal Care and Use (IACUC)
- Office of Animal Resources
- Conflicts of Interest and Commitment
- Controlled Substances and hemp/cannabis research
- Export Controls
- Human Research / Institutional Review Board (IRB)
- Research Misconduct and the Responsible Conduct of Research
- Quality Assurance/ Quality Improvement Program
- Controlled drugs

As Director of OAR and the AV, direct oversight and management of administrative, veterinary, husbandry, and operational technical staff within the department. Animal Facility design, renovation, commissioning. Serving on SCRM, IACUC, IBC, AAALAC committees. Successfully achieved AAALAC Accreditation for the CU Boulder Animal Care Program June, 2018. Quality assurance and regulatory compliance with USDA, OLAW, DoD, NSF mandates within the University. Significant accomplishments include robust staff development, program standardization, SOP creation, strengthened communication, enriched new investigator and rodent technical skills training, web page enhancement, ticketing system processes, comprehensive onboarding program, commissioned a new Wilderness Place behavioral neuroscience research center, and successful eradication of adventitious pathogen outbreaks. Research collaboration with Lowry lab evaluating neuro-immune responses to stress; with the Nelson lab studying population dynamics and ecological niche of island deer; with the Barth lab evaluating epileptiform related behavior between domestic and wild rats.

Research/grants: ACLAM Foundation grant: “Transmission of MPV in rodent feed” (LeBlanc; Co-PI, \$30,000; 2016). AALAS GLAS Foundation “Transmission of MPV in rodent feed” (LeBlanc; Co-PI, \$18,969.79, 2016). AALAS GLAS Foundation “Multicentric evaluation of the effects of altitude on rat behavioral research” (Reuter, PI, \$40,000, 2017); CU Boulder Utility & Energy Services grant sharing initiative “Dry-Heat Autoclave purchase and installation for Gold Tg vivarium” (Reuter, \$35,000, 2018-19); AALAS GLAS Foundation “Evaluation of the response of the rat circadian system to vivarium nighttime “safe” red light” (Spencer, Co- investigator, \$36,067, 2019); RIO Seed grant: “Broad-spectrum Cannabidiol (CBD) as a prevention/treatment of neuroinflammation in a rat model of comorbid autism and epilepsy” (Lowry, Co-Investigator, , \$49,885 2022-23); Institute of Cannabis Research (ICR): “Preventative and treatment effects of broad-spectrum cannabidiol (CBD) in a rat model of comorbid autism and epilepsy: A mechanistic study” (Lowry, Co-investigator \$346,527 2022-24)

Senior Director, Senior Research Scientist, Attending Veterinarian

Salk Institute for Biological Studies

2006- 2015

Visiting Scholar; UCSD

2012- 2015

Direct and manage Animal Resources Department at the Salk with a staff of ~60 in husbandry and operations, veterinary care, colony management, behavioral testing, quality assurance and regulatory compliance with USDA, PHS policy, AAALAC, DoD mandates within the Institute.

Research/grants: ACLAM Foundation Biohazard risk assessment grant (PI, collaborative research with the Verma, Panda, Callaway, and viral vector core labs; 2007); ACLAM Foundation grant: “Assessing cage density impact on behavioral testing, molecular markers of anxiety and neurogenesis in different mouse strains” (collaborative research with the Heinemann, Sawchenko labs, Co-PI (LeBlanc); 2009); NIH NCRR G20 Facility improvement grant to refurbish an aging vivaria cagewash operations (PI, \$625,000; 2009); collaboration with John Young lab evaluating the role of

Tam in acute viral (MLV, VSV) resistance; 2010-12. NIH G20 Facility improvement grant to renovate safety and SPF barrier equipment (PI, \$386,558; 2013). ACLAM Veterinary Externship Award (PI) 2009; 2010; 2012; 2013, 2014; 2015; NIH G20 Facility improvement grant to renovate CRAF rackwasher (PI, \$324,470; 2015).

Staff Development: Established 10 core competencies for ARD employees, and, together with HR, completely revised the annual review and performance evaluation process; Actively promoted manager and supervisor leadership development; Recruited a new Assistant Director and Business Manager; Established job descriptions for all positions within ARD; Created a new training coordinator for ARD and research staff, Career development ladder (Assistant Managers and lead tech) implementation for HT/OPS, sponsored multiple clinical-research posters at National AALAS annual meeting.

Operations: Spearheaded Salk AAALAC application and accreditation, Alignment and balancing of \$4.5million department budget, Realigned costs and per diems with the NIH Cost Analysis and Rate Setting Manual- based on actual itemized expenses to reduce budget subsidy from \$1.3 to \$0.2 million; Managed facility improvements (NHP suite renovation, CRAF biohazard suites and all corridor floors, SAF floors, CRAF cagewash operations; Behavioral test core, gnotobiotic core); Evaluated QA sentinel testing program, Implemented efficiencies in technician work flow, Implemented ergonomic cagewash operation equipment; created life cycle water valve program, Initiated SciQuest on-line animal requisitions; created auto water value PM assessment and lifecycle replacement program to reduce incidence of cage flooding from >11% to less than 0.2%, successfully managed multiple PI, multi room outbreak(s) in SPF barrier of EDIM (rotavirus), MPV (parvovirus), Pinworm, Fur mites.

Cost cutting measures: Staff re-assignment and cross training to cover shortages, Developed and implemented low-cost, efficient rodent euthanasia chamber, Eliminated all contract agency temporary personnel (historical levels of over \$200,000/yr); Reduced staff turnover to <7% (from as high as 60%), Overhauled QA sentinel testing program (estimated savings of \$100- \$150K/yr); Spearheaded ergonomic equipment for cage wash ops (labor saving, cost efficient, break-even on direct costs in 2.5 years); cage recycling/kup swap, water valve refurbishing programs

Services- Lead AAALAC accreditation efforts for the Salk (Full Accreditation awarded Oct 28, 2008), Created a new research resource: Comparative Pathology and Phenotyping; Launched new ARD Website, Footprints ticketing tracking system and ARD calendar scheduler for managing all shared procedural spaces; Negotiated with UCSD to enable SALK non-human primate research collaboration and access to fMRI; Established VS week-end health coverage; Assisted in reshaping the IACUC and developing Institutional polices, Animal care protocol planning and review, Sponsored Integrated Research Enterprise Database Management Application (e-Sirius) for IACUC and ARD data management, Create Salk internal transgenic mouse line repository database for Salk investigators, Implement mandatory annual retraining program for ARD facility access; fostered transparency and communications with labs (ARD staff attend lab meetings, quarterly lab managers meeting, AFC, ARD website development, calendaring reservation system, Footprints ticketing request management system, user feedback survey)

Adjunct Associate Professor	2006 - 08
Associate Professor	2005 - 06
Assistant Professor	1999 - 05

Section of Comparative Medicine, Yale University School of Medicine

Tenure track appointment responsible for laboratory animal medicine and care (AAALAC accreditation, average daily census of 60,000 of over two dozen species), clinical and pathology conferences, regulatory oversight, quality assurance, IACUC protocol review, and investigator consultation / education / training, participation in the LAM residency training program and didactic seminars in conjunction with in-depth development of independent, innovative research in microbial pathogenesis, comparative medicine, cancer biology, animal model development, and vaccinology.

Research and Laboratory Animal Medicine Consultant

2002 - 06

Founder and President Veterinary BioPath, LLC, a bioscience research support company specializing in consultation, training, contract research, histotechnology, technical writing, regulatory compliance, Animal Care and Use Committee review, health monitoring/quality assurance, clinical medicine, anesthesia, surgical techniques, and facility design relating to laboratory animal medicine, research, and management. [Cellular Genomics, Branford, CT; Bayer Pharmaceuticals Corporation, West haven, CT; Physicians Consulting Network]

Postdoctoral Veterinary Research Fellow

1996 - 99

University of Michigan, Unit for Laboratory Animal Medicine

Clinical and research residency specializing in the clinical management, pathologic diagnosis, and research uses of laboratory animals. Developed extensive knowledge of various laboratory animal species, their unique biological processes, pathologic conditions, management, and use as models of human disease. Completed comprehensive training in specific pathogen free technique, surveillance, AAALAC accreditation, IACUC affairs, protocol review, and team management.

Emergency Veterinarian

1997 - 99

Animal Emergency Clinic; Ann Arbor, Michigan.

Part-time primary clinician responsible for triage of critically ill small animal patients. Diagnostic and treatment methods included: in-house laboratory, radiography, patient monitoring (ECG, pulse oximetry, doppler and automated blood pressure), anesthesia, and surgery.

Research Fellow / Computer Programmer

1994 - 96

University of California, Davis – VM Molecular Biosciences

Robert J. Hansen Ph.D., Associate Dean Veterinary School, Rosemary Walzem Ph.D.

Conducted relational MS Access database program design, development and interfacing with proprietary software programs. Responsible for the development and standardization of micro-lipid extraction analysis techniques. Skilled with gas and thin layer chromatography, gel electrophoresis, poultry handling, and various laboratory technician duties.

VMTH Pharmacy Emergency Staff

1994 - 95

University of California, Davis

Staff duties included dispensing prescriptions and surgical supplies, labeling drugs, organization and sterilization of instrument packs, and restocking supplies.

Exotic Animal Externship

1993

Mexico City, Mexico

Assisted in surgical procedures, restraint techniques, care, monitoring, diagnosis, and treatment of the common diseases of exotic animals including large felines, non-human primates, avians, and equids. Studied cultural differences between Mexican and American veterinary practices.

Research experience

Broad-spectrum Cannabidiol (CBD) as a prevention/treatment of neuro-inflammation in a rat model of comorbid autism and epilepsy

Research grants (Lowry/Barth/Reuter RIO Seed grant [\$49,885] 2022-23
Institute of Cannabis Research [\$346,527] 2022-24

We propose to answer the question: Does treatment with broad-spectrum Cannabidiol (CDB) prevent or diminish potentially inflammation-mediated autistic-like behavior and/or the development of epilepsy in a rat model of comorbid autism/epilepsy? We hypothesize that a core mechanism underlying both pre- and postnatal neuro-developmental disorders in ASD is chronic neuro-immune-induced limbic hyperexcitability. If true, this would predict that suppressing neuro-inflammation in pups (in the early postnatal weeks) via broad-spectrum CBD would suppress release of inflammatory cytokines (and possibly enhance the expression of anti-inflammatory cytokines) and attenuate hyperexcitability and neurodegeneration in our maternal stress + terbutaline model of ASD/epilepsy.

Evaluation of the response of the rat circadian system to vivarium nighttime “safe” red light

Research Grant (SPENCER, Co-investigator) [\$36,067] 2019-2021
AALAS GLAS Foundation
University of Colorado Boulder

Collaboration with the Spencer lab (CU Boulder), our central hypothesis is that exposure of laboratory rats to some nighttime red light conditions will activate and modulate the function of the central circadian system and have downstream effects on related behavior. However, these effects of dim red light exposure will diminish with reduced duration and increased wavelength. The overall goal of this project is to find a “safe” red light condition (if such conditions exist) that can be used by researchers and vivarium husbandry staff for various procedures without altering the rat’s circadian system function.

Dry-Heat Autoclave purchase and installation for Gold Tg vivarium

2018-2019

CU Boulder Utility & Energy Services grant sharing initiative [\$35,000]
Shared funding to purchase high efficiency, energy-saving Gruenberg dry heat autoclave, offsetting \$28K+ energy costs/5yrs.

Spontaneous Recurrent Absence Seizure-Like Oscillations in Wild-Caught Rats

2017- 2019

Collaboration with the Barth lab (CU Boulder) exploring epileptiform related spike and wave patterns and associated behavioral freezing in wild caught Brown Norway vs domestic lab-reared rats.

White-tailed deer population dynamics and ecological niche of St. John deer

2016- 2019

Collaboration with the Nelson lab (CU Boulder) conducting feeding ecology, population density, and health assessment (behavioral, virus antibody, hematologic and reproduction) of *Odocoileus virginianus* living in the USVI.

Gut-brain axis and microbiome related neuro-immune modulation by the in wild rats

2016-present

Collaboration with the Lowry lab (CU Boulder) exploring the marked differences in gut microbiome of wild-caught vs domestic reared rats. Assessing how standard vivarium husbandry might influence changes in bacterial population dynamics over time. Evaluation of how these microbiota influence normal immune responses and ultimately, behavioral repertoires.

Multicentric evaluation of the effects of altitude on rat behavioral research

2017-2020

Research Grant (REUTER, PI) [\$40,000]
AALAS GLAS Foundation
University of Colorado Boulder

Collaboration with the Lowry lab (CU Boulder), our central hypothesis is that we will find considerable

differences in clinical hematological and behavioral effects resulting from housing rats at high elevation versus those maintained near sea level.

Transmission of MPV in rodent feed 2016-18

Research Grant (LeBlanc/REUTER, Co-PI) [\$30,000]

ACLAM Foundation

Salk Institute for Biological Studies

The major goals of this project are to (1) characterize the infectivity and the kinetics of infection of MPV in the feed, (2) determine a minimal feed infectious dose using a wild type MPV strain, (3) quantify the effects of the standard pelleting process used in the food industry on MPV infectivity and, (4) quantify the effect of subsequent irradiation or autoclaving on MPV infectivity.

Role: Co-Investigator

Transmission of MPV in rodent feed 2016-18

Research Grant (LeBlanc/REUTER, Co-PI) [\$18,969.79]

AALAS GLAS Foundation

Salk Institute for Biological Studies

The major goal of this project was to extend research investigating the transmissibility of Mouse Parvovirus in contaminated feed to include immune-compromised mouse models, perform a dose titration of irradiation to evaluate the effect of this process over a wide range of doses and eventually perform similar studies on various common rodent pathogens (eg.: EDIM or pinworm) which may also contaminate feed.

Role: Co-Investigator

Rack washer replacement at the Salk Institute 2015-16

NIH G20 Grant: 1 G20 OD020276-01 (REUTER, PI) [\$324,470]

Salk Institute for Biological Studies

The CRAF rack wash equipment was past the end of its expected lifecycle and in need of replacement due to multiple leaks causing standing water, condensate, damage to the concrete, peeling paint, unsealed floor with pock marks and cracked tile, inconsistencies in temperature regulation, equipment failure leading to excess storage of soiled animal caging in the hallway. The renovations proposed in this application will have significant impact on the day-to-day operations within CRAF to provide continued support to CRAF and satellite animal facilities. The scope of the renovation included demo of existing rack washer equipment, mitigation of substructure damage and installation of a new rack washer.

Cagewash Renovation for Safety & Long-Term Research Support at the Salk Institute 2013-14

NIH G20 GRANT11199684 (REUTER, PI) [\$386,558]

Salk Institute for Biological Studies

This proposal sought funds to help to make vivaria safety improvements (allergy and ergonomic) while ensuring proper protection of mice from adventitial pathogens. These goals will be accomplished by purchase and installation of bioBubble(R) laminar flow allergen capture stations for use within central cagewash soiled operations and replacement of rusted and deteriorated animal cage changing stations with ergonomically friendly, high efficient, corrosive resistant, HEPA filtered animal transfer stations. These offer user flexibility and protection while maintaining sanitizable, barrier protection for our unique and irreplaceable mouse breeding colonies. We anticipate additional savings from reduced energy consumption, personnel PPE and Occupational Health and Safety related costs. Funds allowed us to reallocate recharge resources to continue refurbishing older units and maintain IACUC compliance and AAALAC accreditation standards.

Assessing cage density impact on behavioral testing, molecular markers of anxiety and

neurogenesis in different mouse strains

2009-12

Research Grant (REUTER/ LeBlanc, Co-PI)

American College of Laboratory Animal Medicine [\$30,000]

Salk Institute for Biological Studies

The major goal of this project was to understand the effect of cage density on stress and anxiety in different strains of mice by using diverse behavioral testing paradigms as well as sophisticated and specific molecular markers of stress and anxiety in the brain. Additionally, we proposed to characterize the neurological pathways associated with this type of social stress and evaluate its effect on neurogenesis to better understand its intrinsic origin and associated neuromolecular controls.

Role: Co-Investigator

Animal Facility Operations Renovation

7/16/2009 – 6/20/2011

1G20RR025862-01 (REUTER, PI) [\$625,000]

NIH G20/ NCRR

Salk Institute for Biological Studies

This proposal sought funds to help with necessary facility improvements designed to ensure effective and routine sanitation, minimize risks of facility contamination, improve workplace safety, reduce ergonomic risk factors and provide administrative support to facilitate specialized research needs. These goals were accomplished by replacement of an aging CRAF cagewash tunnel washer and components, renovation of cagewash walls, floors, and ceilings, implementation of portable ergonomic equipment, and renovation of administrative and training support space within the vivarium.

Zoonotic disease and enhanced laboratory safety practices

2007-08

ACLAM Foundation research grant award (REUTER, PI) [\$25,000]

Salk Institute for Biological Studies

Major objective: to enhance laboratory and vivarium safety practices in the management of in vivo murine models of novel (and potentially biohazardous) viral vectors using evidenced based criteria. We hypothesize that novel viral gene therapy/targeting vectors based on traditional infectious BSL-2 agents pose minimal risk to staff and animals. Environmental contamination will be minimal and skewed towards periods immediately following inoculation. Application of standard BSL-2 biohazard precautions may not be necessary indefinitely, especially for replication deficient agents.

Neurotropic cytomegalovirus during immunosuppression

2002 - 07

Special Emphasis Research Career Award (REUTER, PI) (NIH K01/ NCRR) [\$650,700]

Charles River Laboratories Animal Grant [\$4,000]

Yale University School of Medicine, Comparative Medicine Department

Explore viral pathogenesis of neurotropic viral disease by defining immunologic factors that regulate cytomegalovirus migration into and within the central nervous system. Employ animal model development, real time PCR and RT-PCR, tissue culture, virus isolation, cryosectioning, intracardiac perfusion, digital imaging, quantitative and qualitative analysis, immunohistochemistry, flow cytometry, and adaptive transfer studies to test signaling mechanisms within the brain and immune modulation to mediate viral clearance.

Cytomegalovirus (CMV) in the Brain

2000 - 02

NIH R01 (van den Pol)

Yale University School of Medicine, Neurosurgery Department

Co-investigator (25%)

To determine by digital imaging and electrophysiology if CMV can protect neurons from glutamate excitotoxicity.

Recombinant Vesicular Stomatitis Virus Expressing CRPV L1 Protein as a Vaccine Against Papillomavirus-induced Carcinogenesis

1999 - 03

American Cancer Society's Institutional Research Grant (REUTER, PI) [\$20,000]

Yale University School of Medicine, Comparative Medicine Department

Cloned, characterized, and evaluated the ability of a recombinant VSV live virus vector to prevent papilloma infection and carcinogenic transformation using a cottontail rabbit papillomavirus (CRPV) rabbit model of human papillomavirus (HPV) induced cervical cancer.

Nanomolecular countermeasures to viral and bacterial pathogens

1997 - 99

University of Michigan School of Medicine, Department of Internal Medicine, Division of Allergy

Laboratory of James R. Baker, Jr. MD, Chief of Allergy Division

Characterized novel dendrimer decoy polymers and non-ionic surfactant nanoemulsions for their ability to prevent *in vitro* and *in vivo* viral or bacterial adhesion and infection. Responsibilities included animal model development and refinement, virus propagation, isolation, and purification, and grant preparation and review. Developed extensive tissue culture knowledge and conducted biological assays including soluble and *in situ* ELISA, hemagglutination inhibition, plaque reduction, and tissue culture cytotoxicity assays. Supervised research assistants and performed independent research activities.

Role of Alpha-hemolytic *Streptococcus* and *Pasteurella pneumotropica* in decreased reproductive performance of C57BL/6 mice

1996 - 97

University of Michigan, Unit for Laboratory Animal Medicine, Clarence Chrisp DVM, AVCP

Assisted in project design and was directly responsible for inoculation, pregnancy evaluation, and pathologic characterization of the vagina and uterus in experimental mice for the clinical relevance of respective bacteria.

Poult response to estrogen implantation as a predictive model for reproduction

1994-95

University of California, Davis, VM Molecular Bioscience, Robert Hansen Ph.D., Associate-Dean, Rosemary Walzem Ph.D.

Poults were implanted with an estrogen supplement for examination of hormone regulation of egg yolk lipid composition to directly compare the effects of yolk lipid composition and egg production on fertility and hatchability. Examined reproduction parameters and egg yolk composition using thin layer chromatography, high-pressure liquid chromatography, and laser light scattering.

Rat adaptation to amino acid deprivation

1992

University of California, Davis, Department of Neurology, Dr. Gietzen DVM, Ph.D.

Assisted in rodent care including: elemental diet preparation and regulation, fixed light: dark cycles, data collection, CNS micro-dialysis, ventricular catheter maintenance, and necropsy techniques.

Trout growth response to estrogen

1989 - 92

University of California, Davis Physiology Department, Freedland Ph.D., Barbara Washburn

Responsible for the preparation of laboratory solutions; conducted fish handling and bleeding; and performed column isolation, and electronic and scintillation analyzer operation.

Professional activities

Institute for Cannabis Research governing board

2020 - present

Chair

2023 - present

Board Member

2020 - present

Budget subcommittee

2021 - present

Research subcommittee

2022 - present

AAALAC ad hoc specialist	2013 - present
Guidepoint Global Advisor (formerly: Society of Industry Leaders)	2008 - present
Science Advisory Board	2007 - present
Colorado Department of Agriculture Hemp Center of Excellence Steering Committee	2021-2022
ACLAM Board of Directors	2015 - 2018
Laboratory Research Solutions advisor	2009 - 2016
California Biomedical Research Association	2007 - 2015
AAALAC ad hoc consultant / site visitor	2004 - 2013
CONNECT Springboard panel member	2007 - 2012
Associative Research Program (PIA) of CONICYT-Chile	2010 - 2011
Vista Research	2008 - 2009

Ad-hoc scientific reviewer:

ACLAM Anesthesia and Analgesia of Laboratory Animals textbook 2nd ed., The Laboratory Rabbit, Guinea Pig, Hamster, and Other Rodents text, Vaccine, Medical Science Monitor, Expert Review of Vaccines, Comparative Medicine, Contemporary Topics in Laboratory Animal Medicine/JAALAS, Biomedical and Environmental Sciences, Lab Animal

University of Colorado Committees: Institutional Animal Care and Use Committee (IACUC); Institutional Biosafety Committee (IBC); Wilderness Place Design and Construction Committee; Wilderness Place Administrative Committee, Standing Committee on Research Misconduct (SCRM); Strategic Facilities Visioning; Global Engagement Advisory Team; Conflict of Interest and Commitment (COIC); Research and Innovation (RIO) Leadership team; Radiation Safety Committee; CU Boulder Safety Working Group, Unmanned Aircraft Systems (UAS) Committee, Institutional Review board (IRB), Global Engagement Advisory team (GrEAT), Campus Misconduct Advisory Group (CMAG), RIO Advisory Board, Research Cybersecurity Advisory Committee

Salk Institute Committees:

Institutional Animal Care and Use Committee (IACUC); IACUC policy subcommittee, Institutional Biosafety Committee; Animal Facilities Committee; Association for Assessment and Accreditation of Laboratory Animal Care, Intl (AAALAC) task force; Business Systems Steering Committee; Directors Heads and Leads Committees; Employee counsel liaison; Society of Research Fellows' Ambassador Program; Human Resources Advisory Committee, Integrated Research Enterprise Solutions, Emergency Preparedness Council

Yale University Committees:

Institutional Animal Care and Use Committee (IACUC), 1999-2005; Laboratory Animal Medicine Training Committee, 2001-present; Comparative Medicine Course Development Committee, 2003-present; Comparative Medicine website development group; Yale Animal Resources Center (YARC), Non-Human Primate Committee, 1999-present; Quality Assurance Committee, 2001-2002, Standard Operative Procedure development and review.

National Committees:

American College of Laboratory Animal Medicine (ACLAM)
 Board of Directors 2015-2018
 Workforce Analysis Taskforce 2014-2016
 ACLAM Planning Committee, 2007- 09; 2013-2015
 Foundation, 2008-present
 Foundation grant review subcommittee chair 2013-2015
 Foundation ad hoc reviewer, 2007- 2008; 2015-2023
 Publications Committee, 2001-07
 Strategic Plan Assessment Committee, 2009-2012
 Forum Planning Committee, 2009-2010; 2016-17

PRIM&R Cross-over program planning committee 2021-23
 PRIM&R IACUC planning committee 2013-2016
 California Laboratory Animals Society (CLAMS) program chair 2013
 American Association for Laboratory Animal Science (AALAS)
 Educational Resources Committee (ERC), 2001-04
 ERC Chair, 2003-04
 ERC Vice-chair, 2002-03
 Subcommittee Chair - Regulatory Workbook
 Subcommittee member- AALAS anatomy poster development
 Subcommittee member manual revision
 Professional Development Coordinating Committee (PDCC)
 PDCC Chair, 2005 - 06
 PDCC Vice Chair, 2005 - 05
 Certification Registry Board (CRB) 2008-09
 National Meeting Local Arrangements Committee 2018-19

Associations:

Research Administration: Association of University Export Control Officials (AUECO), Association of Research Integrity Officers (ARIO)

Laboratory animal: American College of Laboratory Animal Medicine (ACLAM), American Association for Laboratory Animal Science (AALAS and local Mile High Branch Chapter), American Committee on Laboratory Animal Diseases (ACLAD), American Society of Laboratory Animal practitioners (ASLAP), Association of Primate Veterinarians (APV), American Veterinary Medical Association (AVMA), California Biomedical Research Association (CBRA), California Laboratory Animal Medicine Society (CLAMS), California Veterinary Medical Association (CVMA), Foundation for Biomedical Research (FBR), National Biomedical Research Foundation (NABR), PRIM&R, Front Range American Biosafety Association

Research: CU Boulder Center for Neuroscience, American Society for Virology, American Society for Microbiology, Society of Medical Professional Leaders, Connecticut Group Virology Club, Physicians Consulting Network, The Science Advisory Board, American Association of Immunologists, Center for Research and Education Addressing Cannabis and Health (CU REACH)

Honors and Awards

CU Boulder Campus Sustainability Award	2019
Pravin N. Bhatt Young Investigator Award, AALAS	2006
American Society for Virology Medical Virology Travel Grant	2003
National Foundation of Infectious Disease Advanced Vaccinology Course Travel Grant	2001
Henry and Lois Foster Award for Academic Excellence in Laboratory Animal Medicine	2001
Who's Who in Science and Engineering; Medicine and Healthcare	2000
Rhone Merieux Laboratory Scholarship	1996
Phi Zeta Veterinary Medical Honor Society	1996
Lucky Memorial Research Fellowship	1995
Golden Key National Honor Society	1992
Phi Kappa Phi Honor Society	1992
Orpha E. Beail Memorial Scholarship	1992
Salisbury Scholarship	1991
Bright Star Memorial Scholarship	1990

Alpha Zeta Honor Society	1990
Edward Frank Kraft Scholarship Prize for freshmen	1989

Veterinary Licensure

2015-present	Colorado	(VET.0010521)	
2006-2023	California	(16619)	
1999-2006:	Connecticut	(002709)	
1996-99:	Michigan	(6901007964)	

National Federal accreditation; State accredited: CA, MI, CT, CO

Teaching and Mentoring

University of Michigan, Unit for Laboratory Animal Medicine
Seminar Series-

Comparative Clinical Chemistry	1996
Primate Medicine and Biology	1997
Primate reproduction, breeding programs, neonatal husbandry	
Dermatologic diseases, including external parasites	
Breeding, management, and diseases of rats and mice:	1998
Latent RNA viral infections	
Anesthesia, Analgesia, and Euthanasia	
Diseases, husbandry, and research uses of “other species”:	1998
Canine Medicine in Biomedical Research	
Fish	
Comparative Clinical Chemistry	1998
Diseases, husbandry, and research uses of guinea pigs, hamsters, and other rodents	1999
Gerbils, Peromyscus	
Primate Medicine and Biology	1999
Dermatologic diseases, including external parasites	

Science, Technology and Research Scholar (STARS) I and II program 1999 - 02

Faculty mentor for Yale undergraduate biology students, consisting of research projects, and experimental design and research training in the scientific method.

Molecular, Cellular and Developmental Biology (MCDB 475 course). 2001 - 04

Faculty mentor to provided advanced training for Yale undergraduate students with strong interests in biomedical research. This semester long course includes thesis, primary project, report and culminates with an oral presentation by the student. Mentored students, Daniel Gomez and Kimberly Idoko, are both enrolled in medical school.

Biomedical Science Training and Enrichment Program (BioSTEP) mentor 2001

Summer program for minority students. Down Boatright of Morehouse University, in ‘Sensitivity of GFP reporter expression for MCMV infected cells.’

American Association for Laboratory Animal Science Laboratory Animal Technologist training course. Yale School of Medicine, New Haven, CT. 1999 - 2006

Quinnipiac University veterinary technologist training 1999 - 2006

Provide laboratory animal medicine training on a rotational basis as part of an undergraduate course.

Laboratory Animal Medicine Veterinary Resident Training Seminar Series Section of Comparative Medicine, Yale School of Medicine, New Haven, CT.	2003 – 2006
Post-graduate mentor Daniel Martin Yale University School of Medicine 'Cytomegalovirus pathogenesis and cellular tropism during immunodeficiency'	2002
Post-doctoral mentor Steven Wilson Yale University School of Medicine "Development of a Mucosal Vaccine against Murine CMV Utilizing a rVSV Vector and the major MCMV envelop glycoprotein, gB"	2004 – 2006
ACLAM Veterinary Externship 4-8 week externship program in the Animal Resources Department for 3rd and 4th year veterinary students to explore the field of laboratory animal medicine and husbandry. 2-3 students mentored a year (~15 students)	2009- 2015
IACUC Orientation: CU Boulder	2015- 2017
IPHY 6930 (professional skills); Pei Sai and Chris Link	2019
PSYC 5112: Scientific Integrity and the Responsible Conduct of Research, Rhee Soo Hyun	2020
Honors Thesis committee; CU Boulder Chang Liu	2020
ACLAM veterinary mentor	2019 - present
Forever Buffs Mentor	2121 - present
Association of Research Integrity Officers (ARIO)mentor	2023 - present

Peer Reviewed Publications

- Reuter JD**, Dysko RC, Chrisp CE. 1998. Review of exertional rhabdomyolysis and a case in a rhesus monkey (*Macaca mulatta*). *J. Med. Primatology* 27:303-309.
- Reuter JD**, Marks SL, Farver TB, Rogers QR. 1998. Retrospective analysis of total parental nutrition vs. enteral nutrition in critically ill canines at the VMTH – Davis. *J. Vet. Emerg. Critical Care* 8:201-213.
- Reuter JD**, Myc A, Hayes MM, Gan Z, Roy R, Qin D, Yin R, Piehler L, Esfand R, Tomalia DA, Baker JR. 1999. Inhibition of viral adhesion and infection by sialic acid-conjugated dendritic polymers. *Bioconjugate Chem.* 10(2): 271-278.
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