

# State of School 2018





## Mission

# Advance the Health of Animals.

- Educate World Leaders in Veterinary Medicine
- Conduct High-Impact Transdisciplinary Research
- Provide Advanced Clinical Programs for Patient Care and Discovery
- Advance the Well-being of Animals and People in California and Beyond
- Promote a Vibrant, Caring, and Inclusive Community that Promotes Shared Values and Respect

## Vision

**Leading Veterinary Medicine  
Addressing Societal Needs**

# Attract, Mentor, Support the Best and Brightest Students

## Class of 2022



Students – 150 (applicants – 1046)

California – 118

WICHE – 7

Non-Residents – 23

International – 1

Females – 136

Males – 14

- Avg. Science GPA 3.70
- Avg. Quant GRE Score 74%
- Avg. age 23 (Range 20-34)
- 48% URM students (Top 3 in nation)

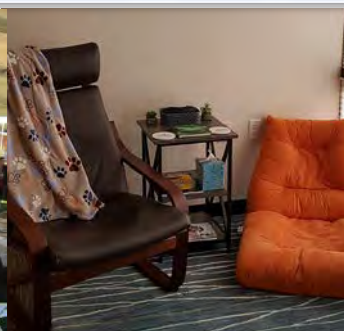
Areas of interest species specific: Small Animal – 57, Mixed Animal – 28, Wildlife – 16, Zoo – 11, Large Animal – 10, Equine – 8, Food Animal – 7, Small/Equine – 6, Lab Animal – 5, Fish – 1

Areas of veterinary interest at application: Practice/Specialty Practice – 99, Academics/Research/Teaching – 28, Public Health – 22

Ethnicity: Caucasian – 78, Asian – 32, Multi-Ethnic – 27, Hispanic/Mexican American/Other Spanish – 9, African American/Black - 3



# Career Center : Leadership, Wellness, and Career

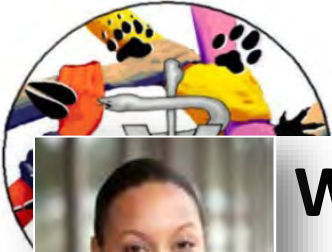


**New in 2018 - Active Aggies** - A FREE fitness program offered to faculty, staff and students made possible by a collaborated effort between the SVM and Healthy UC Davis, and a **New Wellness Room**

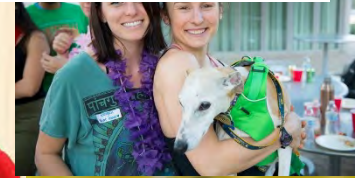




# Establish and Maintain a Sustainable and Diverse Professional Pipeline



**WELCOME - Brandy McCall - Assistant Director of Outreach and Admissions**





# Multicultural Student Experiences Across the Globe



## Office of Global Programs

- **Opportunities for SVM students:**
  - ✓ **30 students** – International Projects Fellowships/Externs
  - ✓ **Global Feline Health** and Underserved Community **Fellowships**
  - ✓ Support for **Rx One Health Course** with OHI
- **Expanded Partnerships and Opportunities**
  - ✓ UC<sup>2</sup> Symposium in Dublin, Ireland with University College Dublin-expanded with Zoetis Funding
  - ✓ University of Sydney – UC Davis Partnership with Seed Grants extended for 2<sup>nd</sup> year



# Veterinary Student Clubs and Leadership Opportunities



Over 30 student specialty clubs and organizations dedicated to increasing leadership skills, involvement opportunities, service activities, and knowledge of the veterinary medicine profession





# Innovations in Teaching – Curriculum to Metacognition Evaluation

- ✓ Curriculum Committee
- ✓ Process for block and year debriefs
- ✓ Succession planning for CC and CEC
- ✓ Curricular Evaluation

- ✓ Clinical Education Committee
- ✓ Student Career Advising
- ✓ Development of a Mixed Animal Emphasis
- ✓ Student Metacognition Initiative



# Faculty Development – Teaching Academies to Peer Observation

- ✓ Peer Observation and Coaching Committee
- ✓ Regional Teaching Academy Biannual Conference
- ✓ International Conference on Communication in Veterinary Medicine Mental Health and Wellbeing Summit
- ✓ Veterinary Education Collaborative and Primary Care Conference
- ✓ Royal Veterinary College postgraduate qualification in Veterinary Education
- ✓ Masters in Health Professions Education
- ✓ Institute for Healthcare Communication





# Forefront of High-impact Transdisciplinary Research

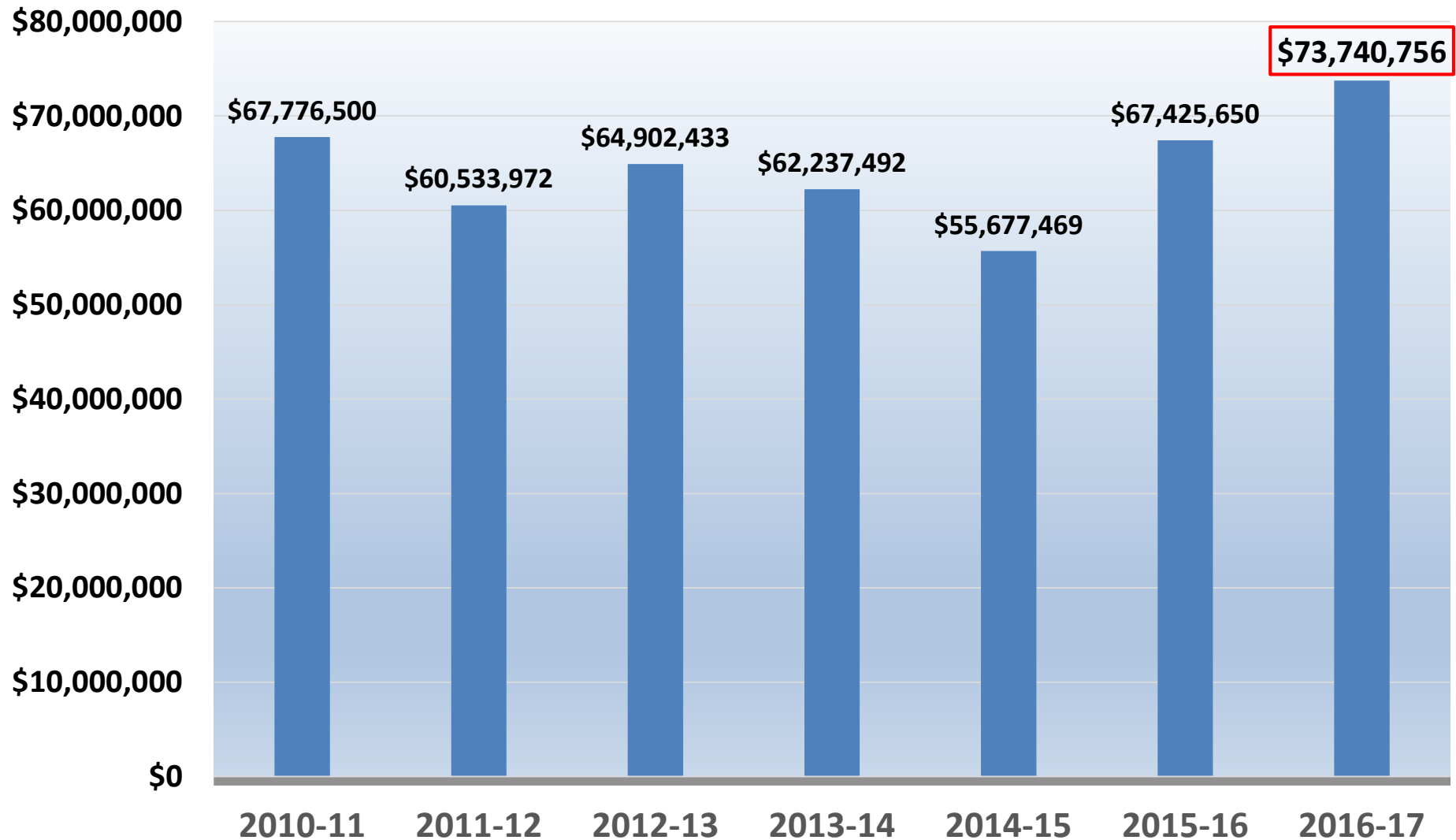


Uniquely contribute to biomedical, agricultural, global health, and environmental research through specialized training in animal biology and medicine to understand interface of animals, people, and the environment



# Forefront of High-impact Transdisciplinary Research

## Research Funding -> #1 Among Veterinary Schools/Colleges



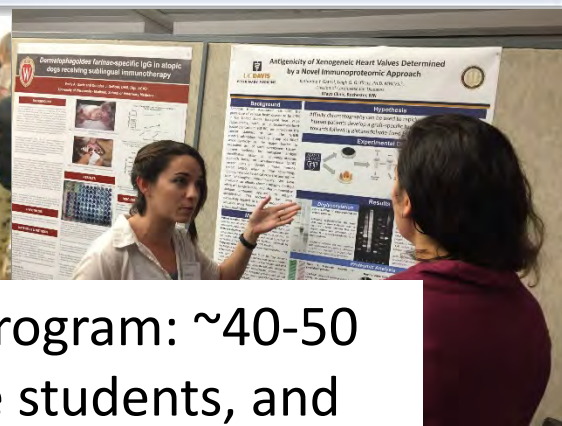
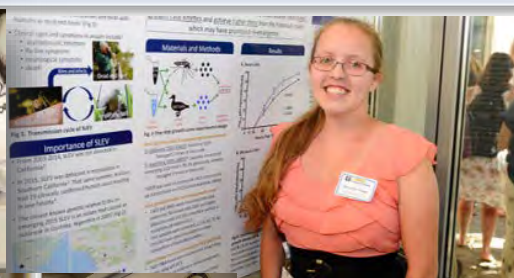
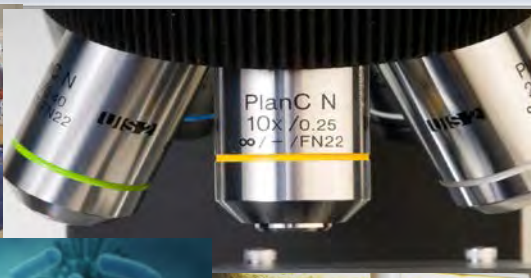


# Transdisciplinary Research and Innovations

- Collaborative programs involving **transdisciplinary teams** that investigate and identify solutions to the **worlds most complex challenges**
- Researchers from **across the UC System** and UC Davis campus, UC Davis Health Systems, Lawrence Livermore National Laboratories, and Bodega Marine Laboratory
- **Interdisciplinary Graduate Groups, and Centers of Excellence, Institutes, and Program Projects**
- **Broad impact** in One Health, Oncology, Biodefense, Equine Health, Wildlife Health, Companion Animal Health, Aquatic Health, Children's Health, etc.



# Transdisciplinary Research - DVM and DVM/PhD Student Training



- **Students Training in Advanced Research (STAR) Program:** ~40-50 veterinary students working with faculty, graduate students, and other researchers on hypothesis-driven research projects
- **Veterinarian Scientist Training Program (VSTP):** Training the next generation of veterinary scientists DVM/PhDs- rich pre-clinical and clinical training with a strong commitment to basic and translational interdisciplinary research





# Forefront of High-impact Transdisciplinary Research

## Laura Van Winkle (APC)

- **NIH S10:** CytoViva Hyperspectral Imaging System (\$230,000)
- Society of Toxicology: 2018 Mentoring Excellence Award

## Lisa Miller (APC)

- **NIH R01:** Role of Microbiome in Neonatal Lung Maturation and Immune Susceptibility \$553,436/yr for 4 years

## Pamela Lein (VMB)

- **NIH R01:** *Vascular Inflammation and Exosomes as Mediators in Aging and Dementia* (MPI: Knowlton, Gelli, Lein) \$600,000/yr for 5 years
- **T35 :** *Advanced Training in Environmental Health Sciences* \$217,000/yr for 5 years (years 40-45)
- **U54 :** *Anticonvulsant & Neuroprotective Therapies for TETS and OP Intoxication* \$3,757,820/yr for 5 years

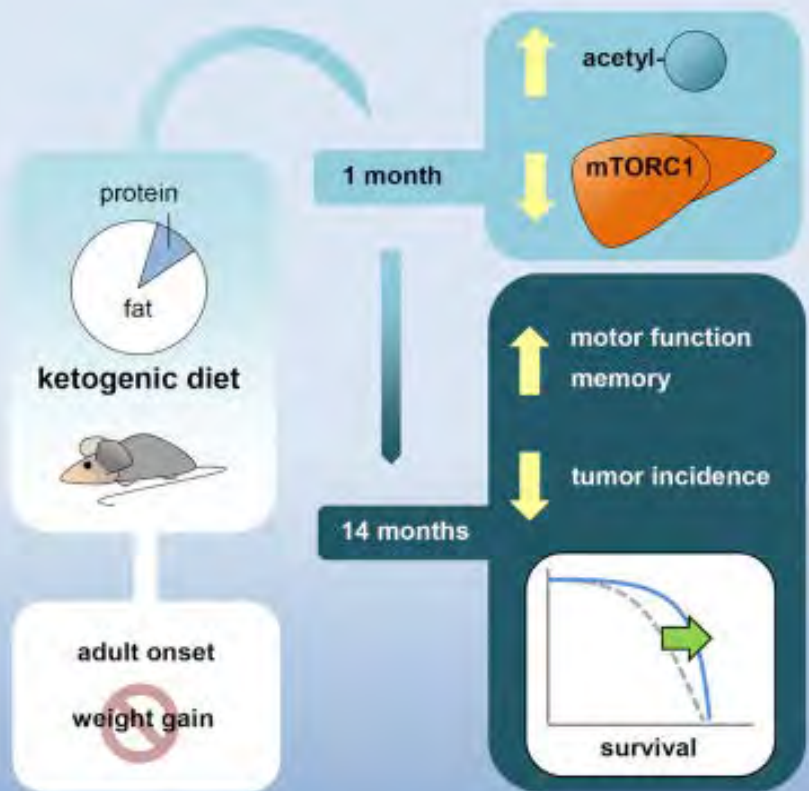




# Diet and Aging



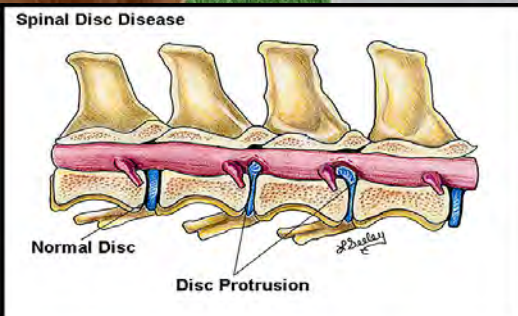
## Mouse Study Shows a Ketogenic Diet Increases Longevity, Strength



- Ketogenic diet increased memory and motor function and decreased age-related markers of inflammation and tumors

A Ketogenic Diet Extends Longevity and Health span in Adult Mice. [Cell Metabolism](#), 2017

# Genetics of Disc Disease in Dogs – Implications for People



- Discovery of a genetic mutation across breeds that is responsible for chondrodystrophy
- The *FGF4* retrogene is an important molecule involved in development. When its receptor *FGF3R* is mutated, it can also lead to dwarfism in humans

***FGF4* retrogene on CFA12 is responsible for chondrodystrophy and intervertebral disc disease in dogs**

Emily A. Brown, Peter J. Dickinson, Tamer Mansour, Beverly K. Sturges, Miriam Aguilar, Amy E. Young, Courtney Korff, Jenna Lind, Cassandra L. Ettinger, Samuel Varon, Rachel Pollard, C. Titus Brown, Terje Raudsepp, and Danika L. Bannasch

**Proceedings Natl. Acad. Sciences 2017**



# NIH Grant in Data Science

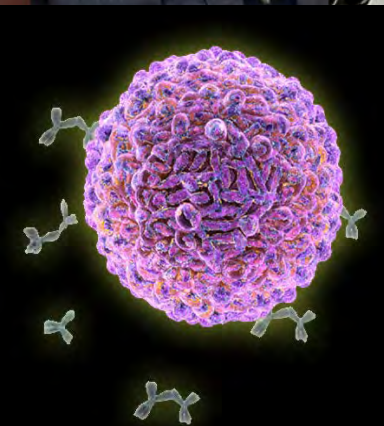
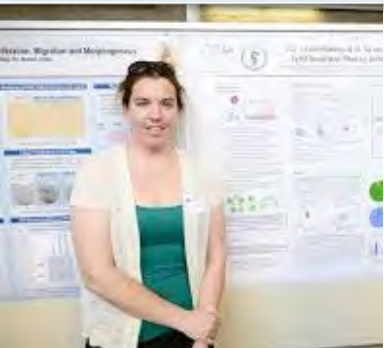


- **Titus Brown**, Associate Professor in Department of Population Health and Reproduction is principal investigator of a grant funded NIH initiative to make it easier for scientists to share research data and scientific tools online
- NIH is supporting the pilot project with 12 grants totaling \$9 million over four years

## Part of UC Davis Data Science Initiative (DSI)

- Data Science a new discipline, encompassing learning from data and scientific studies of data analysis across academic disciplines
- UC Davis DSI - To promote, facilitate and accelerate data-enabled research leading to new insights within and across disciplines

# Distinct Lineages of Antibody Producing Cells



- Distinct subsets of B cells that produce natural antibodies discovered
- Findings may lead to more targeted therapeutics for diseases and conditions such as autoimmune diseases, atherosclerosis, and chronic inflammation

Blimp-1–dependent and –independent natural antibody production by B-1 and B-1–derived plasma cells

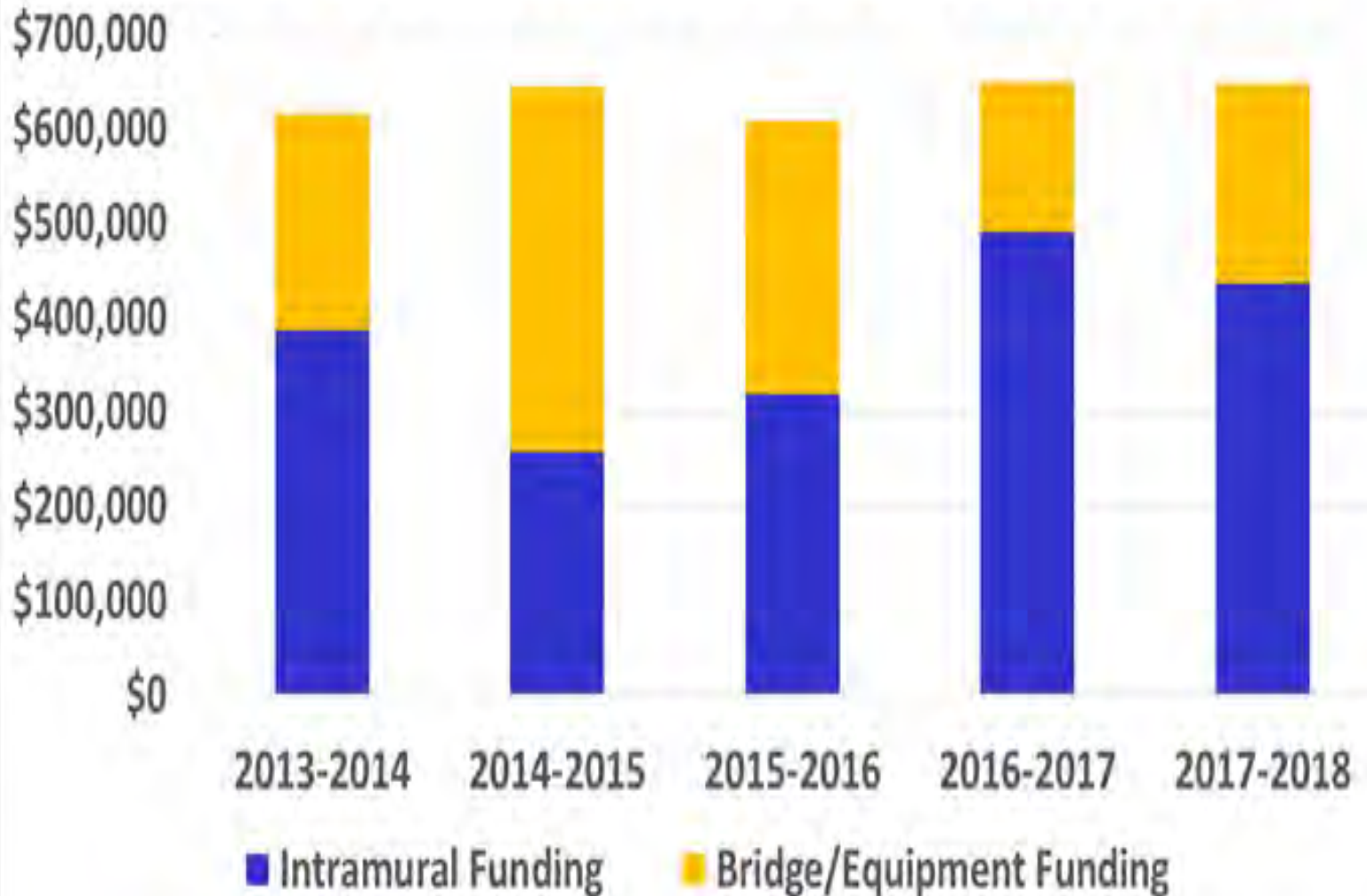
H. Savage, V. Yenson, S. Sawhney, B. Mousseau, F. Lund, and N. Baumgarth

**J Exp Med. 2017**



# Center for Equine Health

## Center for Equine Health Funded Research 2013-2018



# Honoring Leadership in Equine Health



- Dr. Gregory Ferraro was honored for his lasting impact on equine health and research with the announcement of a new endowed directorship in his name
- Dr. Carrie Finno as the inaugural holder of the *Dr. Gregory L. Ferraro Endowed Directorship*
- Dr. Claudia Sonder, former director of the CEH, honored for her leadership and skill as a liaison between the school and equine industry

A promotional poster for the Equine Genetics Forum. It features a brown horse running in the center. The background is white with faint DNA double helix patterns. A dark blue diagonal banner at the bottom left contains the text: "Equine Genetics Forum", "UC Davis School Of Veterinary Medicine Davis, CA", and "August 18<sup>th</sup>, 2018 8am-4pm". A yellow circular badge on the right says "SAVE THE DATE". Below the horse, it says "Hosted By: Center for Equine Health & Veterinary Genetics Laboratory" and includes the UC Davis Veterinary Medicine logo. At the bottom, it says "Formal invitation and event schedule will be provided soon. For more information, contact (530) 752-2211".

Equine Genetics Forum

UC Davis School Of Veterinary Medicine  
Davis, CA

August 18<sup>th</sup>, 2018  
8am-4pm

Hosted By:  
Center for Equine Health & Veterinary Genetics Laboratory

UC DAVIS  
VETERINARY MEDICINE

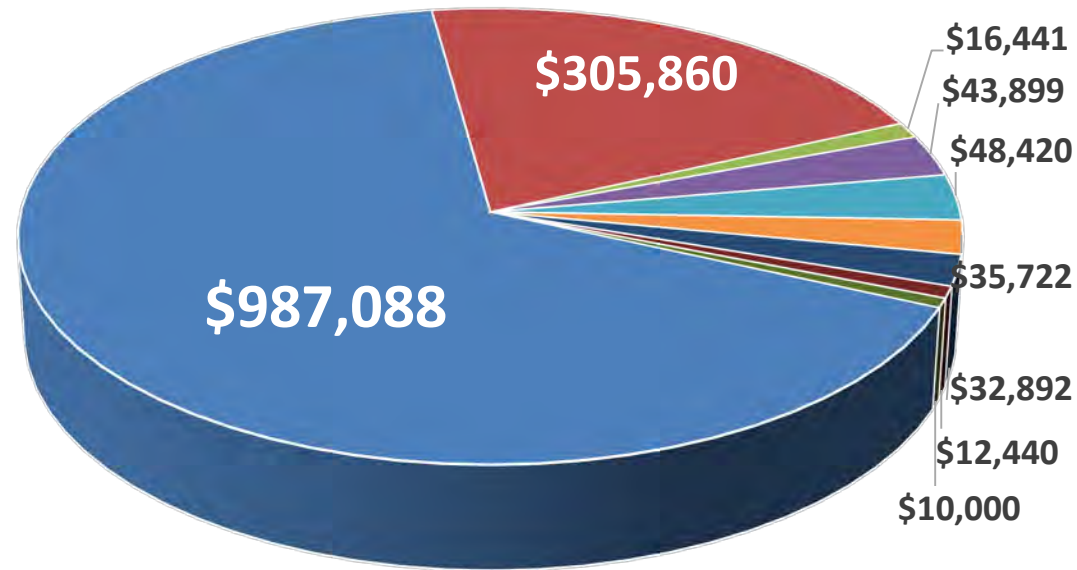
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# Center for Companion Animal Health

Awarded **\$1.5 million** in Grants and Program Support

- Faculty Research Grants: 49
- Faculty Grants Equipment : 17
- Publication Support
- Matching Grants: 6
- Resident Grants: 12
- Research Support/Conferences/ Star Projects
- VHIS
- Koret Exchange Research Program
- TLC Support



# Koret Shelter Medicine Program



- Completed the first online Boot Camp, an eight-week intensive course on Capacity for Care (c4c) for shelters
- Launched a “*Portal it Forward*” campaign that gave away over 700 portals to 39 shelters in need
- Hit the million! In the last year the Million Cat Challenge achieved its goal of saving one million cats from unnecessary euthanasia.





# Translational Research Core Lab



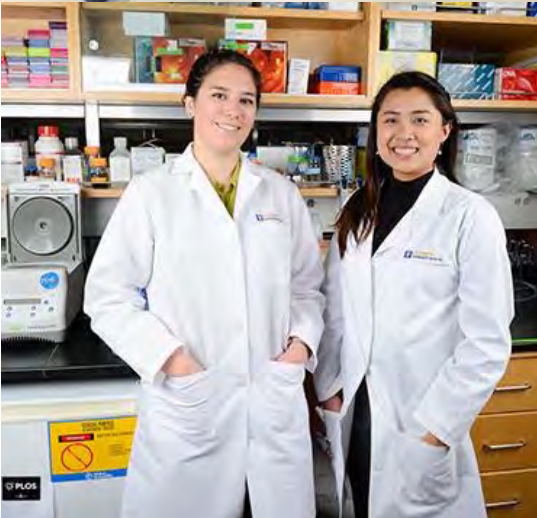
The Dean's Office, Centers for Companion Animal Health and Center for Equine Health have established a new Translational Research Core Lab



New **shared lab space** in VMII rooms 267 and 273A

This Core Lab features:

- Bench space for up to 10 researchers
- 1,000 square feet
- Basic lab equipment



Allows faculty and residents lab space for limited periods of time if they do not have or need additional space for a particular project

# Build Strong Collaborations with Academic, Government, Agricultural and Business partners



Clinical and Translational Science Award  
One Health Alliance

- The Clinical and Translational Science Award One Health Alliance (COHA) **consortium of 14 veterinary schools** partnered through the **NIH Clinical Translational Science Award (CTSA) network**
- Mission is to advance our understanding of **diseases shared by humans and animals**
- **Leverages expertise** of physicians, research scientists, veterinarians, and other professionals to accelerate translational research

UC DAVIS CLINICAL AND  
TRANSLATIONAL SCIENCE

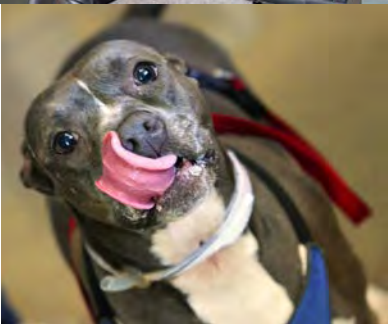




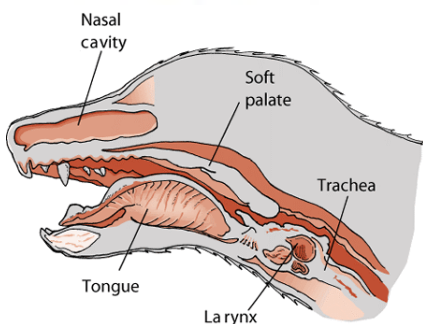
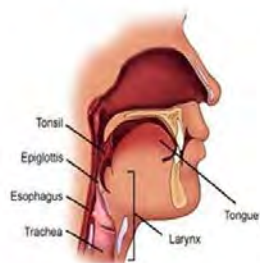
# Center for Deglutology and Digestion – New Transdisciplinary Center

**Center for Deglutology and Digestion** – a new transdisciplinary center dedicated to the advancement of the diagnosis and management of disorders of swallowing, digestion, and nutrition

**Co-Organizers Peter Belafsky, D. Gregory Farwell, Gail Bornhorst, (SOM) and Stan Marks (SVM)**



## PHYSIOLOGY OF THROAT



# Build Strong Collaborations with Academic, Government, Agricultural and Business Partners

## Biomedical and Engineering Entrepreneurship Academy

- School of Veterinary Medicine, School of Medicine, College of Biological Sciences, College of Engineering and UC Office of Research
- Started 2012, >260 attendees (~70 SVM) - faculty, students & post-docs (teams)
- Researchers w/ leading industry executives, investors, & entrepreneurs
  - ✓ Analyzing, enhancing, communicating potential of project
  - ✓ Exploring commercialization opportunities and strategies
  - ✓ Developing a presentation pitch for your project/concept
  - ✓ Developing a network of mentors and industry connections
  - ✓ Increased patents, invention reports, & start-up companies



**UCDAVIS**

**CHILD FAMILY INSTITUTE FOR  
INNOVATION AND ENTREPRENEURSHIP**





# Transforming Research To Market

## Linking Emerging Technologies to New Products and Services



### InnovationAccess

Connecting research and innovation to the marketplace



### Venture Catalyst

Supporting the development of new ventures from university research



### Office of Corporate Relations

Developing and managing strategic relationships with industry



Leading Veterinary Medicine Addressing Societal Needs

# CENTER FOR COMPARATIVE MEDICINE



**Current Active Grant Portfolio: \$76,402,229**

30 Active Awards from Government, Foundation and Industry

**Research:** Cancer Biology, Chlamydia, Cytomegalovirus, H. pylori Pathogenesis, HIV/AIDS, Influenza, Lyme disease, Natural Killer Cells, Salmonella, Tuberculosis, Zika, Vaccine Development

**Core Service Labs:** Mouse Biology Program, Center for Genomic Pathology Lab

**New Faculty Members:**

Smita Iyer, PhD (PMI)

Marcelo Kuroda, MD, PhD (APC)

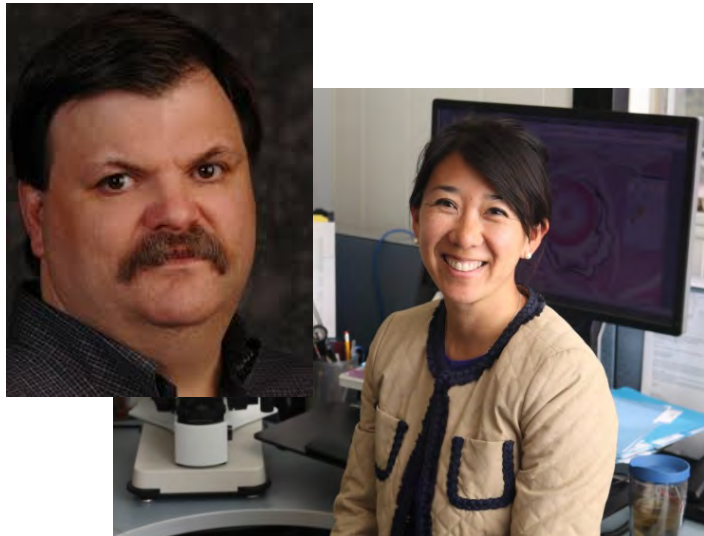
Currently recruiting Center Director

**Training Programs:** Murray B. Gardner Junior Faculty Mentoring Program, Thomas W. North Memorial Graduate Students Scholarship, NIH T32 Comparative Medical Science Training Program, NIH T32 Animal Models of Infectious Diseases Training Program

**CCM 20<sup>th</sup> Anniversary Symposium October 9<sup>th</sup>, 2018**



# Comparative Pathology Laboratory



- High-throughput, self-supporting, fee-for-service diagnostic laboratory
- Responsive to the needs of animal research investigators
- Convenient, comprehensive, customizable services, and rapid turnaround
- University and external clients

**\*\*NEW\*\***



**Expanded molecular diagnostics**  
**Zebrafish health surveillance program**  
**Lab animal pathology residency AND fellowship**

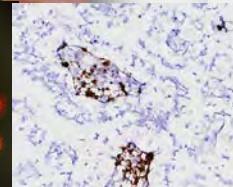
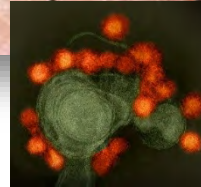
<http://cpl.ucdavis.edu/> | [cpl@ucdavis.edu](mailto:cpl@ucdavis.edu) | 530-752-2832

# Transdisciplinary Research and Innovations

## Primate Models of Zika Virus – A Global Threat

### Pathogenesis:

- Transmission routes:
- Time course of infection:
- Clinical outcome:
- Viral and host determinants of pathogenesis
  - Intra-amniotic Zika Virus Inoculation of Pregnant Rhesus Macaques Produces Fetal Neurologic Disease Coffey et al, 2018, **Nature Communications**, in press



### Interventions:

- Antiviral drugs
- Vaccines: NIH DNA vaccine
- Other

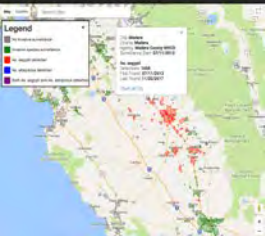




# Pacific Southwest Center of Excellence in Vector-Borne Diseases



- **CDC-funded partnership** between UC Davis, UC Riverside and regional stakeholders in public health and mosquito control **\$8 Million**, 2017 – 2021
- Synergies with our world-class training programs in entomology and vector borne diseases
  - Graduate and professional training
  - R&D for new surveillance and control technologies
  - Diagnostic test development
  - Vector genetics and genomics
  - Data management, visualization & analytics



# PacVec At-A-Glance



## Research

vector genetics  
vector control  
cell biology computer science  
epidemiology  
entomology  
ecology arbovirology  
engineering toxicology  
statistics environmental chemistry  
public health

## Training



## Collaboration & Community



# CAL SURV

California Vectorborne  
Disease Surveillance Gateway



Leading Veterinary Medicine Addressing Societal Needs



# Provide cutting-edge clinical programs supporting education, research, and service

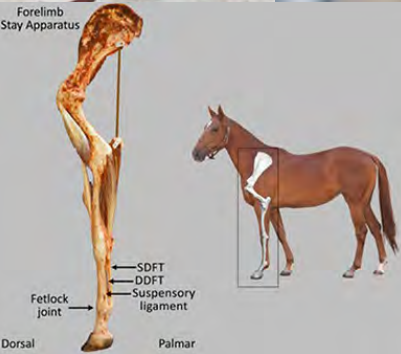
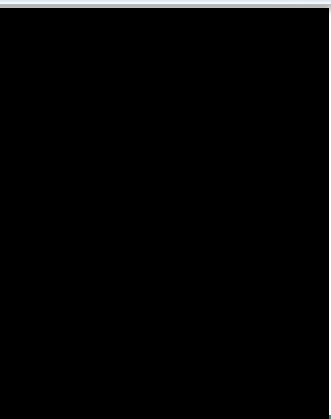
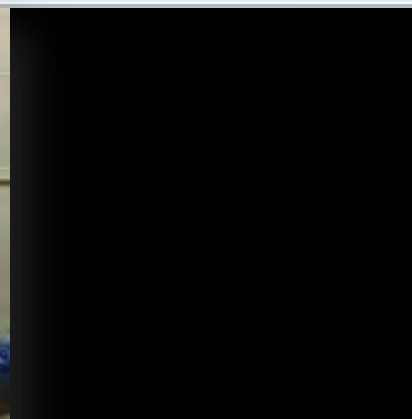
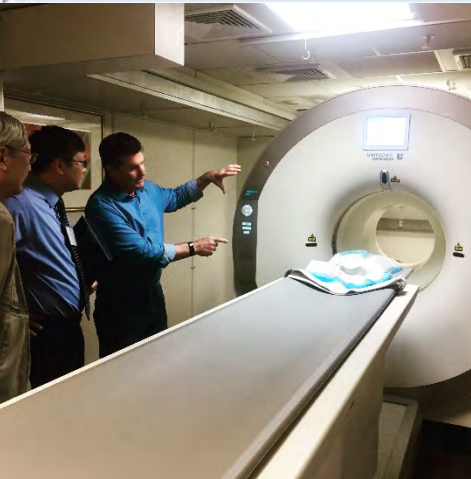
*Veterinary Medical Teaching Hospital consistently ranks at the top among all academic veterinary hospitals in reputation and patient visits*  
**~55,000+ patients**



 1st in the world for  
veterinary medicine



# Leadership in Translational and Clinical Research





# Leadership in Training the Next Generation of Specialists

- Largest house officer (resident, intern, fellow) training program in the country
  - 34 disciplines, ~115 veterinarians seeking advanced training in specialty services
- NEW Wildlife Health Residency offers a “free range” opportunity through the SVM’s Wildlife Health Center



# Partnerships with the California Veterinary Medical Association to Promote Clinical Excellence

## 2017-2018 Donald G. Low-CVMA Practitioner Fellows



**Calaveras Cunningham**

SA Abdominal Ultrasound  
Silverado Veterinary Hospital,  
Napa CA

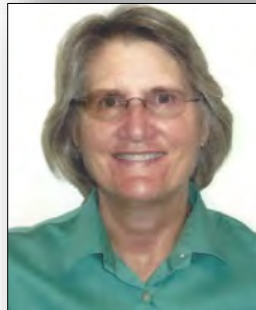


**Allison Jones** Ophthalmology  
Animal Care Clinic, San Luis  
Obispo, CA



**Julie Damron**

SA Emergency/Critical Care  
All Creatures Veterinary  
Emergency Clinic, Stockton, CA



**Karen Krstich**

Livestock Medicine  
Mobile Mixed-Species Practice,  
Winters, CA



**John Huebner**

Cardiology  
Redwood Veterinary Hospital,  
Vallejo, CA



**Jovanna Radillo**

Behavior  
Banfield Pet Hospital  
Carmichael, Sacramento, CA



# Provide outstanding patient care in an efficient, compassionate and service-oriented manner

## Quality Customer Service – Veterinary Hospital Staff



- Staff Awards 2017
  - Stacy Zindel Rachel Smith Award
  - Michele Ortiz Small Animal Award
  - Gabe Gil Large Animal Award
  - Michele Santoro Diagnostic Support Services Award
  - Theresa Varland Client Services Award

# Leadership in Translation to Improve Clinical Outcomes



- Champion Show Dog Undergoes Successful Hip Replacement
- Dog w/ Prosthetic Leg Returns as Diabetic Alert Service Animal
- Laceration Repair Surgery Saves Horse's Athletic Career



- Enhanced Immunotherapy Dogs to Human Trials
- Champion Roping Horse Returns after Botulism Poisoning



- Researchers Study Genetic Causes of Glaucoma in Cocker Spaniels

- Cystoscopy Used to Remove Bladder Stones at UC Davis
- Dog Recoveries After Lung Removal -Foxtail Migration
- Thoroughbreds Evaluated For Racing in Heart Study



# Telling our Story to the World – Communications and Marketing



## National Stories:

- 33+ general pubs: LA Times, Washington Post, NY Times + TV
- 42+ vet pubs: Vet Practice News, DVM 360, The Horse

## Major Stories:

- Fish Skin Bandages Help Burned Bears – [National Geographic](#)
- Poisoned Pets, Premie Foals: UCD' top-ranked vets - [LA Times](#)
- 3D Printed Mask - Fractured Dog Skull – [ABC National News](#)
- PREDICT: One Health Preventive Effort – [American Veterinarian](#)

**Media Inquiries:** 500+  
100%

**Web:** 600+ posts to News & Events (up

## Robust Social Media:



FB = 67.3K (up 20%)

Instagram = 20.6K (up 37%)

Twitter = 16.6K (up 13%)

**Web Redesign Initiative** – Phase 1 Launch June 2018

**SVM App** – Guide to School and Hospital

**PBS – Success Files with Rob Lowe** – PBS nationwide, 3 videos + digital distribution



# The Horses on Standing Rock Get a Checkup

## Traveling Veterinarians, Their Patients and Tradition

The New York Times



- Dr. Eric Davis, a veterinarian at the University of California, Davis, and the director of Rural Veterinary Experience Teaching and Service, a program that has since 2011 sent veterinary students to clinics at farms, rodeo grounds and homes to provide free or reduced-cost care for horses
- Dr. Davis and his students provide veterinary care to horses near Cannonball on the Standing Rock reservation.
- *“We seek out places where other people don’t go,” Dr. Davis said. “I think that you have the opportunity to do the most good if you go to a place that has the least resources.”*



# Outstanding and Award Winning Faculty



# Outstanding and Award Winning Faculty



**John Madigan** honored with Distinguished Achievement Award **and** Special Congressional Recognition Certificate- Community Preparedness Hero Award

- Recognized by the UC Davis Cal Aggie Alumni Association with the Distinguished Achievement Award for his profound impact on the advancement of equine health and animal welfare worldwide
- As an accomplished equine internist, infectious disease specialist, and equine neonatologist, career devoted to research discovery of disorders and diseases affecting large animals, and field of veterinary disaster medicine





# Outstanding & Award Winning Faculty – 3 New AAAS Fellows



**Patricia A. Conrad** - For distinguished contributions to understanding of parasitology and transmission of protozoal parasites between wildlife, humans and domestic animals. Dr. Conrad **also** recognized as UC Davis Chancellor's Award for International Engagement



**Stephen J. McSorley** -For seminal contributions to our understanding of the generation of innate and adaptive immunity to mucosal pathogens



**Jonna A. K. Mazet** - For distinguished contributions to the development and application of One Health methods for the advancement of global health, and for the conservation of threatened species and ecosystems

# Outstanding and Award Winning Faculty



**Helen E. Raybould** – SVM Zoetis Excellence in Research Award



**Lillian Cruz-Orengo**, received one of only two, UC Davis Early Career Faculty Awards for Creativity and Innovation



**Boaz Arzi**- Hills Research and Education Award Recipient



**Rodrigo Gallardo** - Bayer-Snoeyenbos New Investigator Award



# Outstanding and Award Winning Faculty



**Verena K. Affolter** – VMTH Clinical Faculty Excellence Award



**Clare E. Yellowley** – SVM Zoetis Distinguished Veterinary Teacher Award



**Michael S. Kent** – UC Davis Faculty Stewardship Award



**Frank J.M. Verstraete** – American Veterinary Dentistry Zoo and Wildlife Dentistry Certificate

# Outstanding and Award Winning Faculty



**Pramod Pandey** - Governor's Environmental and Economic Leadership Award (GEELA)



**Edward Feldman** – British Small Animal Veterinary Association, Bourgelat Award



**H. L. Shivaprasad** - Induction into the American Association Avian Practitioners Hall of Honor



**Eugene P. Steffey** - American College of Veterinary Anesthesia & Analgesia Career Achievement Award



# Outstanding and Award Winning Faculty



**Patricia Pesavento** – *UC Davis Distinguished Teaching Award: Graduate and Professional*

**AND** SVM Distinguished Faculty Teaching Award

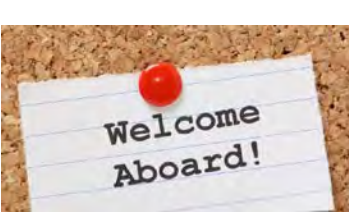
- Enthusiasm, competence, and passion for science and teaching
- Innovative teaching strategies
- Instrumental in learner-centered curriculum
- Seamlessly providing support and instruction while allowing for individualized professional development

**AND** chosen by the Class of 2018 as the Faculty Commencement Speaker!



# New Faculty Appointments 2017-2018

- **Chris Barker**, Assoc. Professor of Arboviral Epidemiology (PHR)
- **Catherine Gunther Harrington**, Assist. Professor of Clinical Cardiology (VME)
- **Melanie Gareau**, Assist Professor/Assistant Professor in Residence (APC)
- **Smita Iyer**, Assist. Professor/Assistant Professor in Residence (PHR/CCM)
- **Denis Marcellin-Little**, Professor of Small Animal Orthopedic Surgery (VSR)
- **Jamie Burkitt**, Assist. Professor of Clinical Small Animal Emergency & Critical Care
- **Ronald Li**, Assist. Professor of Small Animal Emergency and Critical Care (VSR)
- **Kathy Toohey-Kurth**, Professor of Clinical Diagnostic Microbiology (CAHFS/PMI)
- **Chai-Fei Li**, Assist. Professor of Clinical Neurology/Neurosurgery (VSR)
- **Marcelo Kuroda**, Professor/Professor in Residence (APC/CCM)



meet our  
**NEW HIRES**





# Leadership Changes in 2017-2018

## New Leaders



**Rebecca Bellone** - Director,  
Veterinary Genetics  
Laboratory



**Martin Smith** Vice-Chair,  
Department of Population  
Health and Reproduction



**John Angelos** - Director,  
Center for Food Animal  
Health



**Megon Rott** - Director of  
Human Resources



## Thank you for Retiring or Previous Leaders

**Stephen Griffey**- Director,  
Comparative Pathology  
Laboratory



**Cecilia Penedo**- Interim  
Director, Veterinary Genetics  
Laboratory



**Linda Ybarra** -Director,  
Communications and Marketing



**Terry Lehenbauer** -Director,  
Center for Food Animal  
Health

# Chair(s) of Faculty - 2017-2019



**CONGRATULATIONS Clare Yellowley- Elected  
2018-2019 Chair of the Faculty**



**THANK YOU William Vernau –  
2017-2018 Chair of the Faculty**



# Advance the well-being of animals and people in California and around the globe



Reducing Pandemic Risk, Promoting Global Health





# Advance the well-being of animals and people in California and around the globe

## Partnerships with California Department of Food and Agriculture

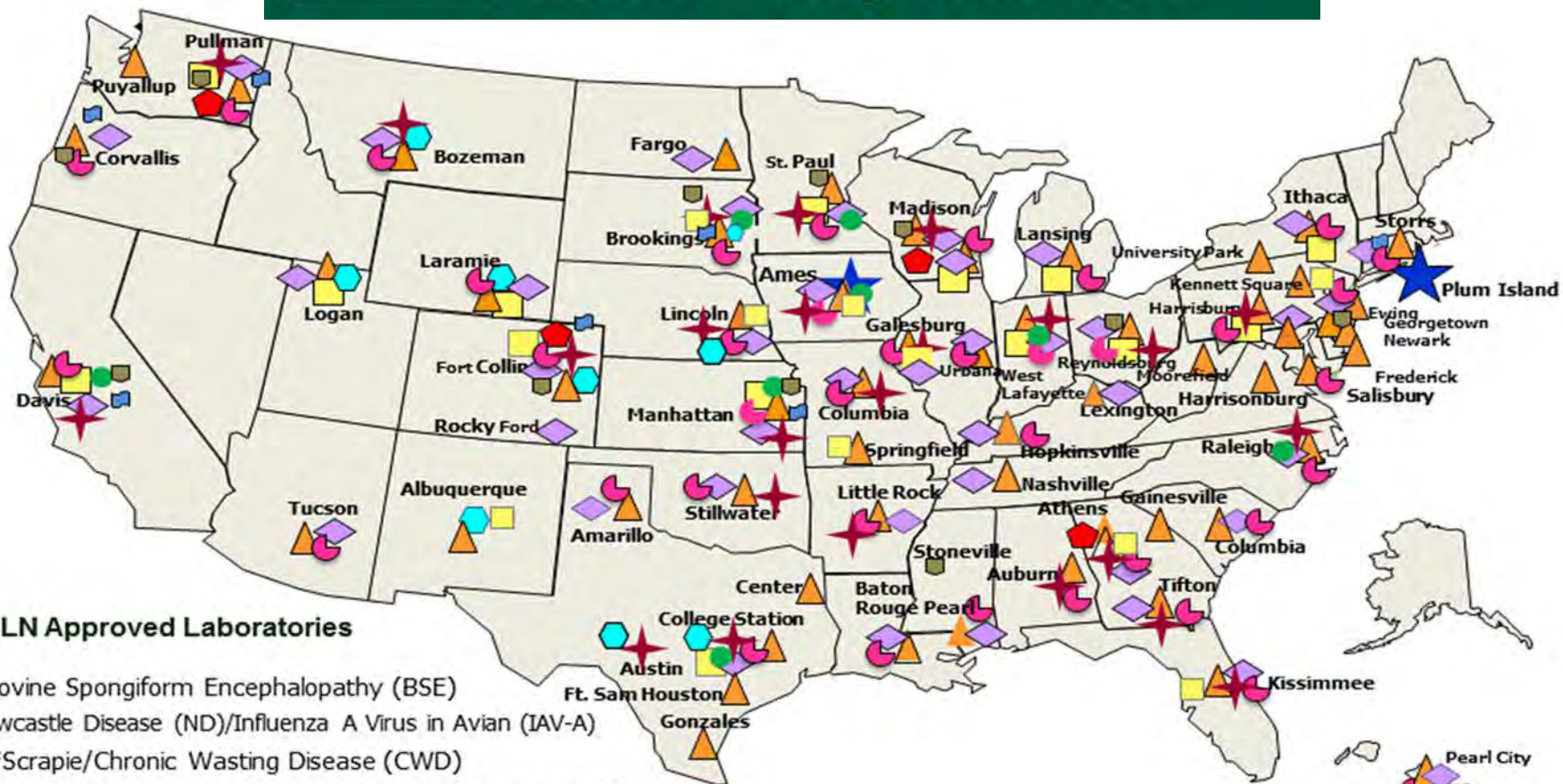


New Castle Disease Outbreak May 20, 2018 - SACRAMENTO — CDFA via San Bernardino CAHFS Laboratory detected virulent Newcastle disease in a small flock of backyard exhibition chickens in Los Angeles County, confirmed by USDA Animal and Plant Health Inspection Service (APHIS). First case in the U.S. since 2003.





# National Animal Health Laboratory Network



## NAHLN Approved Laboratories

- \*Bovine Spongiform Encephalopathy (BSE)
- Newcastle Disease (ND)/Influenza A Virus in Avian (IAV-A)
- \*\*Scrapie/Chronic Wasting Disease (CWD)
- \*Classical Swine Fever (CSF)/Foot and Mouth Disease (FMD)
- Influenza A Virus in Swine (IAV-S)
- Vesicular Stomatitis (VS)
- African Swine Fever
- \*Pseudorabies Virus (PRV)
- Viral hemorrhagic septicemia (VHS)
- Infectious salmon anemia (ISA)
- National Veterinary Services Laboratories

\*For specified agents, not all laboratories are currently participating in surveillance testing  
 \*\*Multiple assays conducted for this agent, refer to specific disease map/list for assay options..

October 26, 2016

# National Animal Health Laboratory Network

## NAHLN Restructure - 2016



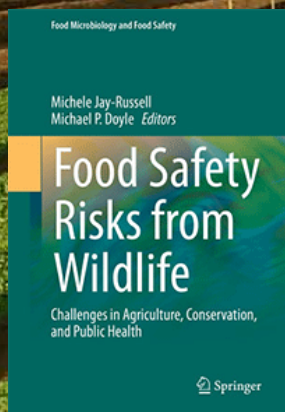
- State-federal partnership with USDA
- Foreign animal disease testing (FMD, AI, END, etc.)
- Enhance surveillance/response capacity for U.S.
- New structure based on objective assessment criteria
  - Capabilities and regional need
  - 11 Level 1 labs (including CAHFS)
  - Receive largest funding support
  - Additional \$5M in federal budget FY18
    - Increase to CAHFS pending



# Advance the well-being of animals and people in California and around the globe

## Western Institute of Food Safety and Security

- Medical ecology of microbial contamination of the US produce supply: *vertebrate pathogen sources, fate & transport, molecular epidemiology of enteric zoonoses*



**FDA FOOD SAFETY  
MODERNIZATION ACT**

# Priority Issues of Global Importance

## Antimicrobial Resistance



- **Mission:** To create, apply and disseminate new knowledge to enhance **health and well-being** of food-producing animals, promote food **safety** and **healthy environment**
- **High Priority Areas to Fund:** Antimicrobial stewardship, alternatives, judicious use, stewardship and resistance
- FDA - Drugs in Feed Transitioned from Over-the-Counter (OTC) to **Veterinary Feed Directive (VFD)**



Leading Veterinary Medicine Addressing Societal Needs



# UC Davis SVM Cooperative Extension

## Linking Science to Communities



R. Atwill, Director  
Medical Ecology/Food  
Safety



P. Pandey  
Microbiological Wastes



A. Pires  
Urban Ag/Food Safety

### New Specialist Positions:

- Beef Cattle Herd Health Extension Veterinarian
- ✓ **Dr. Gaby Maier**
- Dairy Production Health Management (*Health Economics Focus*)
- ✓ **Dr. Fernanda Ferreira**
- Antimicrobial Resistance Specialist – In Interview Stage



Maurice Pitesky  
Poultry Health




Noelia Silva-del-Rio  
Dairy Herd Health



Martin Smith  
Youth Scientific Literacy



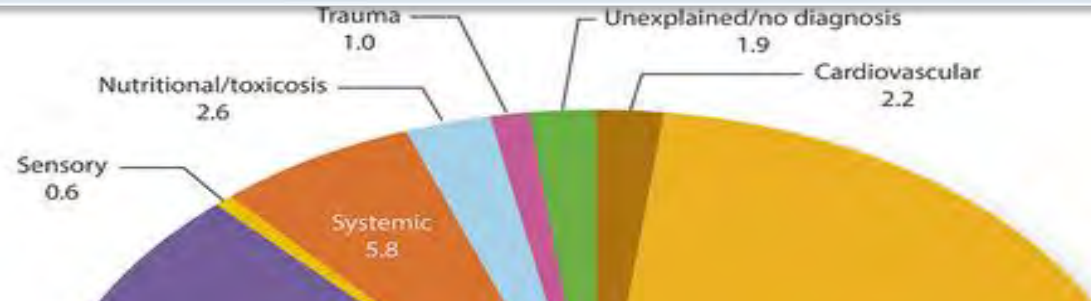
PARTICIPATE IN THE  
BACKYARD POULTRY  
EGG STUDY

 **University of California**  
Agriculture and Natural Resources

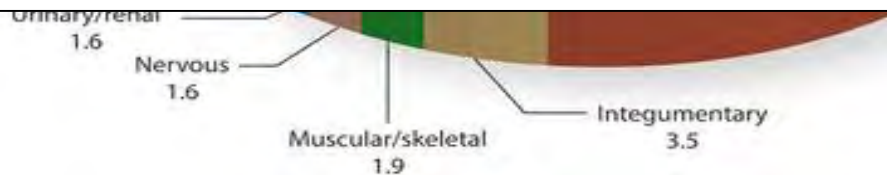




# Assessment of Backyard Poultry Flocks as Potential Threat to Commercial Poultry Industry

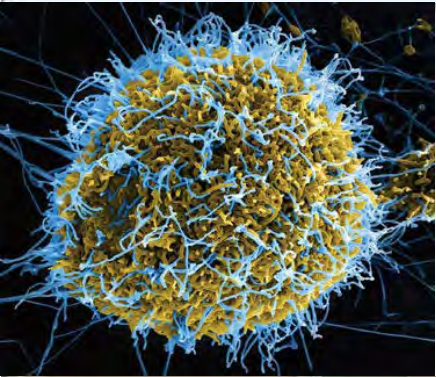


- Backyard poultry flocks have potential to serve as a reservoir or amplifier for poultry respiratory diseases
- Importance of small flock biosecurity and chick acquisition sources
- Education needed for backyard flock owners



Derksen T, Lampron R, Hauck R, Pitesky M, Gallardo RA. **Avian Dis.** 2018

# Transdisciplinary Research to Categorize Global Threats



## Global Project Aims to Identify Viral Threats

- Global Virome - A 10-year virus identification project starting this year could identify most viruses with potential to cause disease in humans. *Science* 2018
- *Dr. Jonna A.K. Mazet*, Director of the One Health Institute featured on *Discovery Channel* Series “Invisible Killers”, March 2018





# Advance the well-being of animals and people in California and around the globe



REDUCING PANDEMIC RISK. PROMOTING GLOBAL HEALTH.



Leading Veterinary Medicine Addressing Societal Needs

# Advance the well-being of wildlife and people in California and around the globe

## Karen C. Drayer Wildlife Health Center



- **SeaDoc Society**
  - Published Explore the Salish Sea, on the Pacific NW nonfiction bestseller list
- **Gorilla Doctors**
  - Conducted 20 clinical interventions to treat endangered mountain and Grauer's gorillas in Rwanda, Uganda and DR Congo, and initiated critical research
- **Oiled Wildlife Care Network**
  - Continued expansion into inland California by adding four key partners and assisted in oiled wildlife planning/training in nine different countries
- **California Conservation**
  - Continued work to address impacts of: illegal cannabis cultivation on wildlife; freeway expansion on mountain lions; and infectious disease in sea otters
- **Latin America**
  - Signed MOU to serve as veterinary lead for all countries signatory to the international Agreement on the Conservation of Albatross and Petrels treaty.
- **Training Programs**
  - Implemented free-ranging wildlife health residency with the CDFW



# Advance the well-being of animals and people in California and around the globe

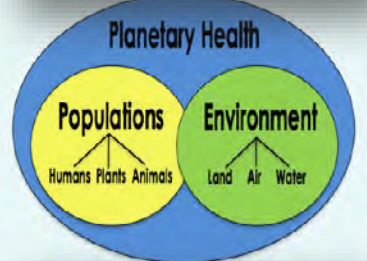
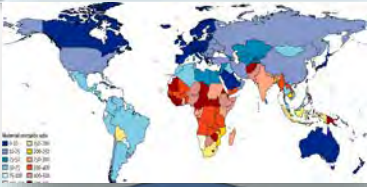
## Planetary Health Center of Expertise UC Global Health Institute

**Mission:** To lead the world in research, education, and policy to coupled health-environment challenges

**Co-Director: Woutrina Smith**

- **Initiatives (Teaching, Research, Outreach):**

- ✓ *Farming in the 21<sup>st</sup> Century*
- ✓ *Vulnerable Populations*
- ✓ *Building the economic case for planetary health*
- ✓ *Women at the center of planetary health solutions*





# SVM Teams Respond to Northern California Fires



Leading Veterinary Medicine, Addressing Societal Needs



# Innovations to Heal Wildlife - Burned Animals with Fish Skins



- Dr. Jamie Peyton stitched fish skins to their burned paws, then wrapped them with bandages of rice paper and corn husks
- Treatment from trials on human burn victims in Brazil that placed treated skins from tilapia, a ubiquitous species of fish, on the injuries to soothe pain and promote healing





## Extending Leadership in Clinical Education

- ✓ Specialty Referral Center in Cardiology, Nephrology/Urology/Hemodialysis, and Clinical Pharmacy
- ✓ New Fellowship in Nephrology and Extracorporeal Therapies
- ✓ Clinical Pharmacy Training with UC San Diego
- ✓ Partnered Training for Veterinary Technicians with San Diego Community College District



# Center for Continuing Professional Education -Committed to "Lifelong Learning"

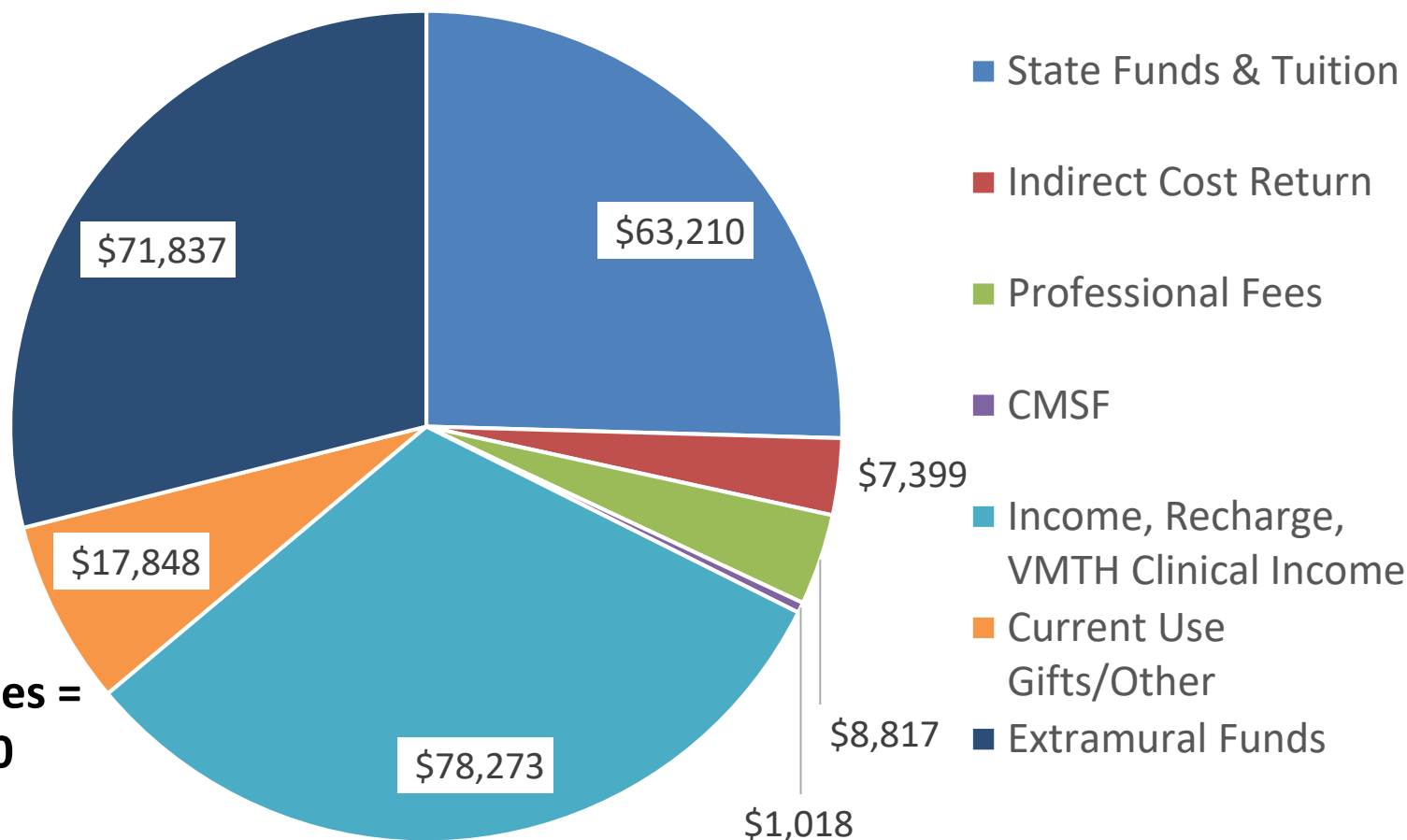


- ✓ Programs provide current information in veterinary medicine to educate veterinarians, students, and the public to improve the quality of life for our veterinary patients
- ✓ Seminars available to veterinary professionals who seek opportunities for advancing veterinary care, professional development and fulfilling their continuing education licensure requirements



## VET Talks EDUCATION

# SVM Revenue Projection (in 000's) 2017-18



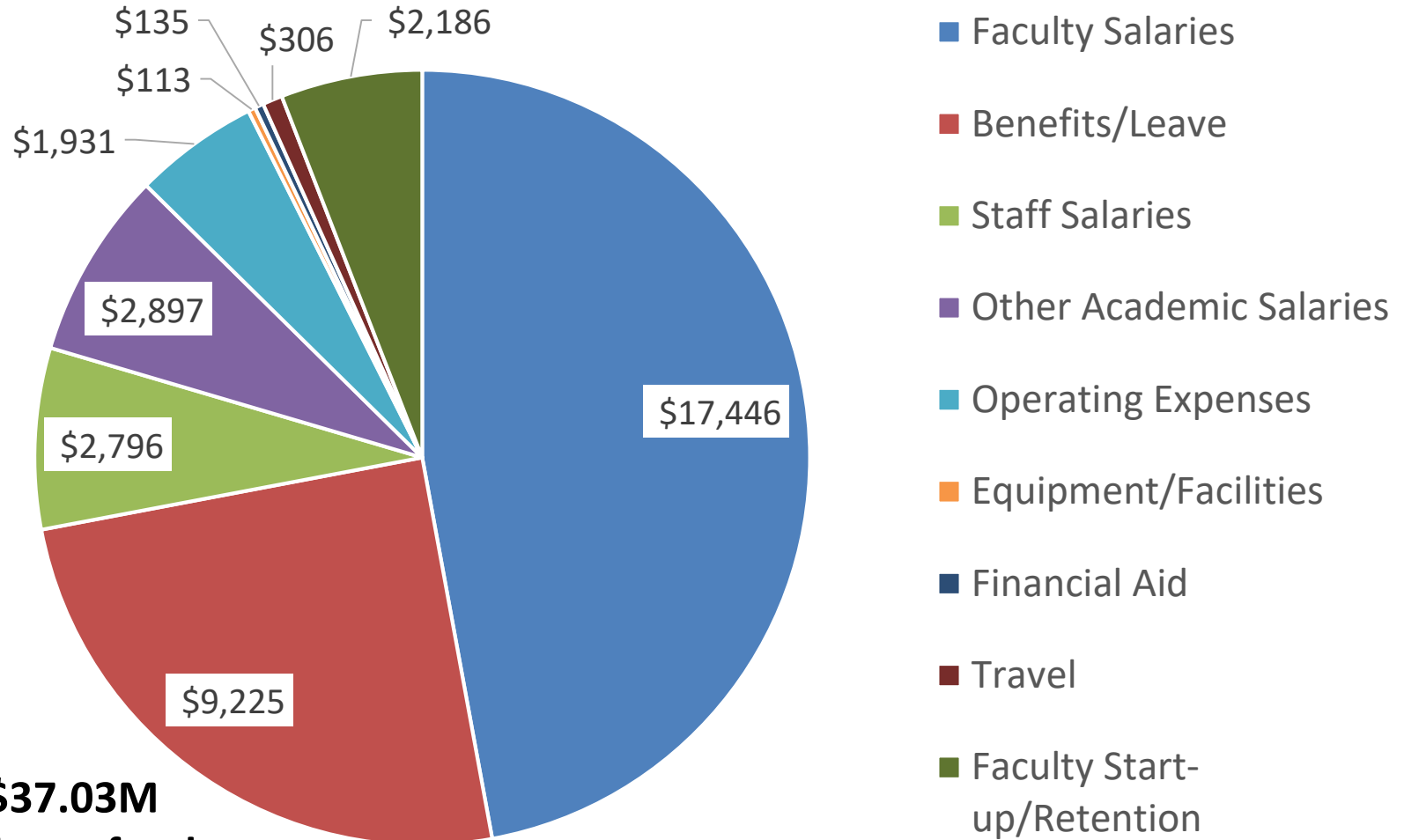
**Total Revenues =  
\$248,402,000  
(All Funds)**

**Total Core Funds = \$79.4M**

**Core Funds = State Funds/Tuition, ICR, and Professional Fees**



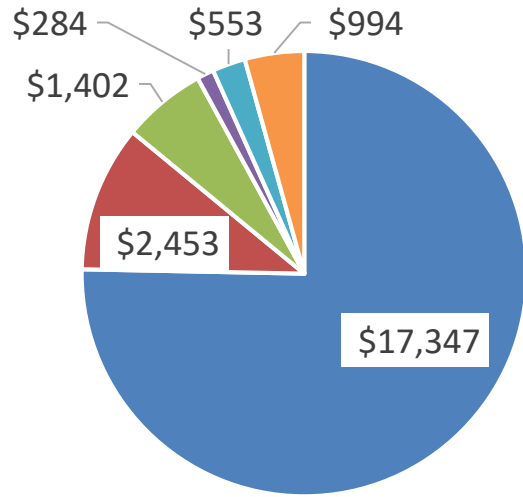
# Core Funds (in 000's) – Academic Departments 2017-18



**Total: \$37.03M**  
**47% of core funds**

**Core Funds = State Funds/Tuition, ICR, and Professional Fees**

# Core Funds (in 000's) – VMTH and Centers, 2017-18



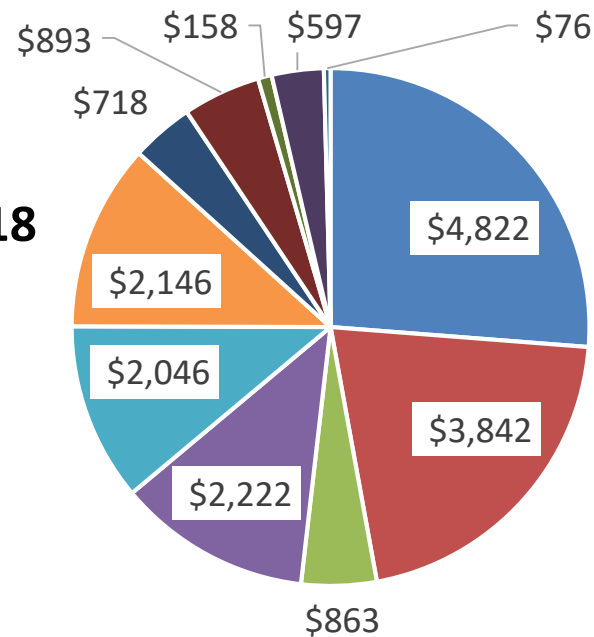
- VMTH
- CCM
- VMTRC
- Vec. Disease
- WHC
- Other Centers

**VMTH & Centers = \$23.02M**  
**29% of Core Funds**

# Core Funds (in 000's) – VMDO, 2017-18

**VMDO = \$18.38M**  
**23% of Core Funds**

**Executive Office**  
**6% of Core Funds**



- Other Salaries/Admin
- SVM-IT
- Academic Programs
- DVM Return to Aid
- USAP Fin. Aid
- UCOP Tax
- Student Programs
- Research/Grad Ed
- Global Programs
- Facilites Maintenance
- Executive Office



## Key Investments in 2017-18

Project	Investment (\$)
Faculty Start-Up Packages	\$2M
Faculty research bridge funding, equipment, and seed grants (including \$220K in Innovation Funds)	\$351K
MiniExplorer PET Scan (Gift Funds)	\$606K
VHIS (VMACS) Project	\$200K
ACCD Research Project Matches	\$347K

## Planned Investments for 2018-19

Project	Investment (\$)
Faculty Start-Up Packages	\$2M
Faculty research bridge funding, equipment, and seed grants (including Innovation Funds)	\$300K
ACCD Research Project Matches	\$300K
VHIS (VMACS) Project	\$200K

# Innovation Fund Use 2017-2018

## Requests

## Amount

Coastal and Marine Sciences Institute - SVM Match to CBS request	\$16,572
ACVP/ASVCP - UC Davis Alumni Reception 2017	\$1,200
Blue Sponsor for UC Davis Pre-Health Conference	\$9,500
California Exposition State Fair (Development Event)	\$1,750
One Health Lunch and Reception for One Health Activity - 2 day event	\$3,000
Education Alliance - Success Files " Leaders in the Future of Veterinary Medicine"	\$27,000
Fund Calvin Schwabe lecturer honorarium	\$3,000
Fundraising 2018 UC Davis Postdoctoral Research Symposium - Grad Studies	\$1,000
Interdepartmental Research Grant Funding	\$10,000
Sponsorship of the One Health program of the Consortium for Universities of Global Health Meeting	\$2,452
CAPES Speaker hotel costs -VET437: Avian & Reptile Health	\$750
VCCT Salary Support	\$22,117
Invited Speaker travel to UCD	\$1,500
Retention -One-time purchase of Olympus BX43 microscope	\$32,000
Soaring to New Heights Sponsorship (Diversity)	\$1,000
Veterinary Entrepreneurship Academy Stipend	\$5,000
Support Rx One Health Program Coordinator	\$15,000
Biomedical Innovation & Entrepreneurship Academy (BMEA)	\$15,000
Biomedical Innovation Prize - Big Bang Ceremony	\$1,000
Fund new grills for the student Caduceus "TG" barbecue.	\$825
Student support for 3 to attend Iverson Bell in Ontario (\$500 each)	\$1,500
AVMA Student Fly In - Washington DC	\$1,000
VMTH Student Wellness Event Support	\$114

## Total

**\$172,279**



# Taking the World's Best Veterinary Care to the Next Level

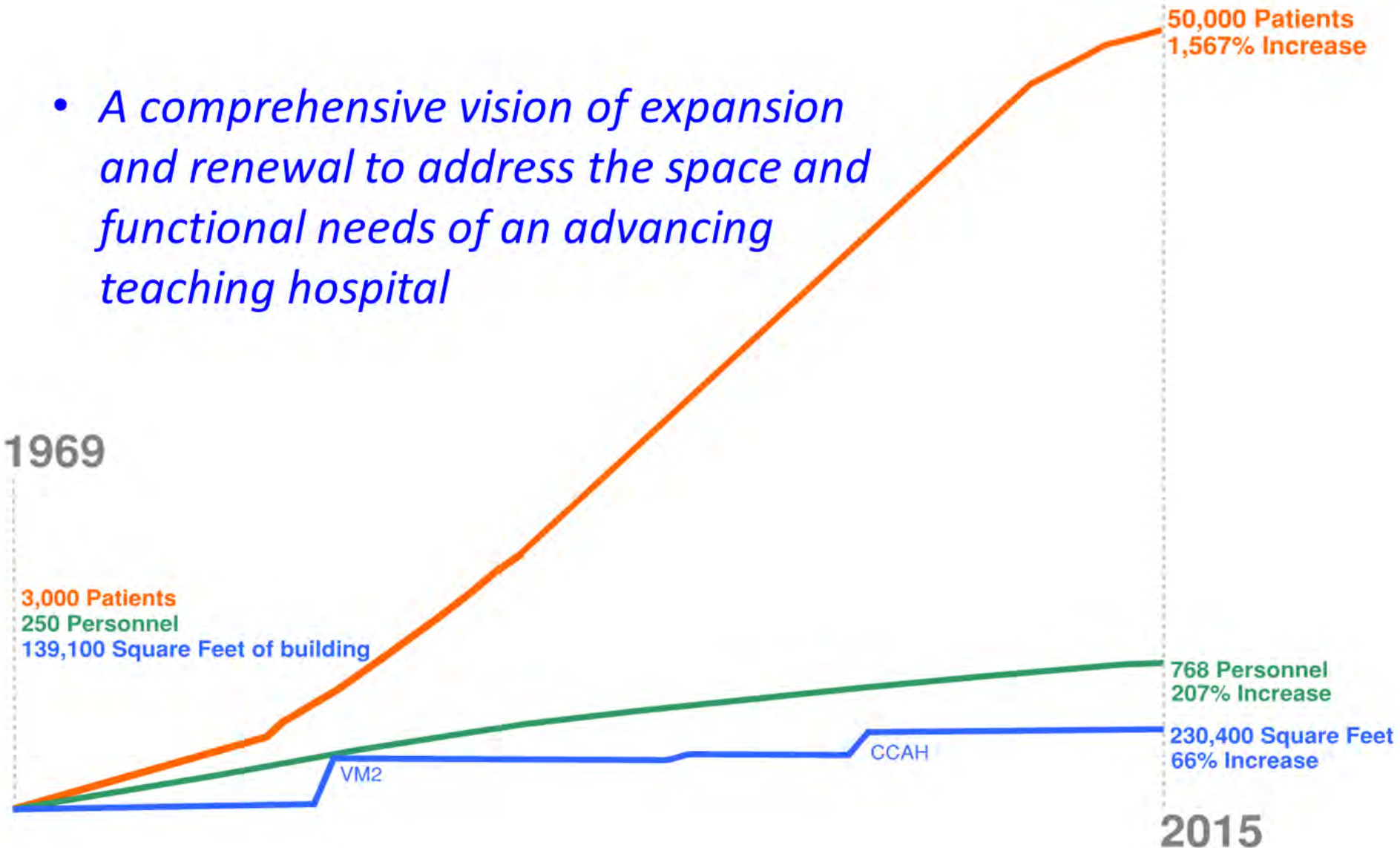


- Chancellor May, Dean Lairmore, CMO Dr. Sykes, and alumni Dr. Klingborg, Phase 1 of capital campaign launched Oct. 13th, “Leading the Way”
- Strong philanthropic interest in this campaign, **raised ~\$68.9 million** — more than half of the campaign goal phase 1 goal of \$115 million— prior to this afternoon’s announcement
- Goal of phase 1 to be completed by June 30, 2019
- Public announcement continues to get excellent media coverage



# Veterinary Medical Center

- A comprehensive vision of expansion and renewal to address the space and functional needs of an advancing teaching hospital*

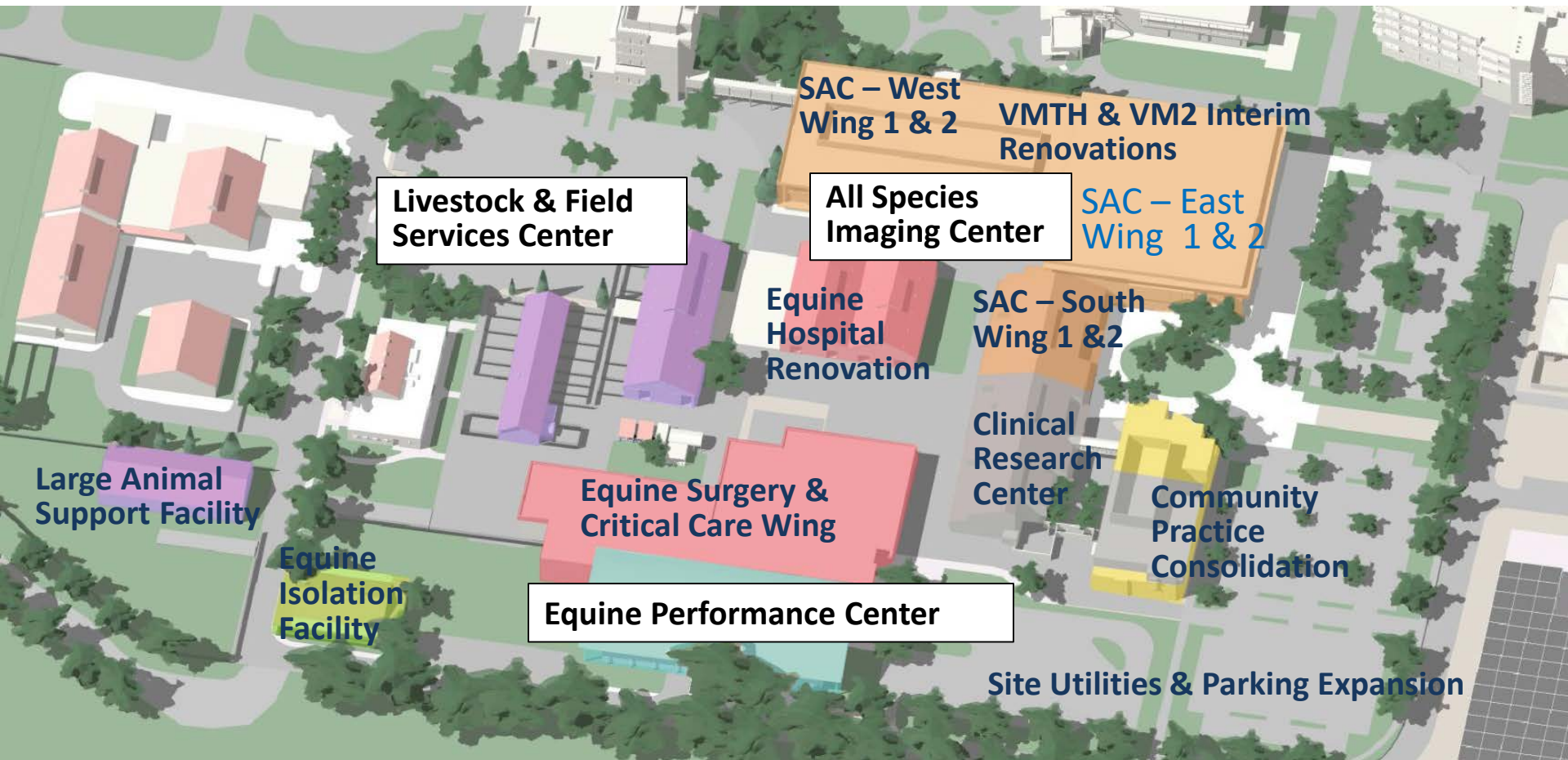




# Veterinary Medical Center – Master Plan

## 17 Major & 9 Minor Projects

\$508 million budget includes equipment, operations/energy endowment, utility connection fees and interest during construction



# Livestock and Field Services Center & Large Animal Support Center

- **Livestock and Field Service Center** designed in consultation with Temple Grandin, PhD
- Designed for the best possible environment for livestock patient handling care and clinical teaching emphasizing modern concepts in animal welfare





# Equine Performance Center



- Plans for a **state-of-the-art arena** to evaluate horses under-saddle for complete and quantitative examinations
- Equipped with high-speed **motion capture cameras** to help detect subtle gait abnormalities
- **Gait Analysis Laboratory—kinematic analyses** for objective measures of horse's gait and efficacy of treatment of a musculoskeletal injury or disease
- **Integrated force plate** to determine distribution of weight bearing
- **New farrier station** to swiftly perform and evaluate shoeing interventions

# UC Davis to Add Women's Equestrian as Varsity Sport

- UC Davis Athletics announced the addition of women's equestrian as its new varsity sports
- Dr. Michael Lairmore, dean of the UC Davis School of Veterinary Medicine, added: *"We look forward to ensuring that the equine athletes receive superb medical care from our world-leading clinicians and students, and anticipate collaborating with the varsity equestrian team in multiple ways that strengthen the leadership of UC Davis in equine health."*
- UC Davis is currently in the midst of a capital campaign to build a state-of-the-art equine performance center





# All-Species Imaging Center

- The **All-Species Imaging Center**, staffed by the largest diagnostic imaging team in the world
- Cutting-edge of detecting, diagnosing and treating injuries  
Joining research, radiologists and clinicians to advance the care and rehabilitation of all animals.



## COMMUNICATIONS & MARKETING



Rob Warren

Margaret Wong



- Council for Advancement and Support of Education District VII Conference
- Margaret Wong, Digital Media Coordinator and Rob Warren, Communications and Marketing Officer for the Veterinary Medical Teaching Hospital recognized for their mini-campaign leading up to the October 13th Veterinary Medical Center campaign launch
- The communication initiative was designed to promote the campaign's tag line "**Leading the Way**" and build interest and attendance at the announcement event, both in-person and online via livestream



# Impact of Development in our Mission



## Gifts to date

- Since July 1, 2017 we have raised **\$33.4 million** from ~7,000 gifts
- **Andrew Paske** – NEW Assistant Director of Development
- VMC Phase I campaign launched in Oct 2017 with \$68.9M towards \$115M goal for Phase I, plus \$25M in Infrastructure Funding from Campus
- Welcomed over 150 alumni for the Fall Festival Reunion in Oct 2017 and > 200 donors and students to the Evening of Gratitude, which provided over \$2.7M in scholarships

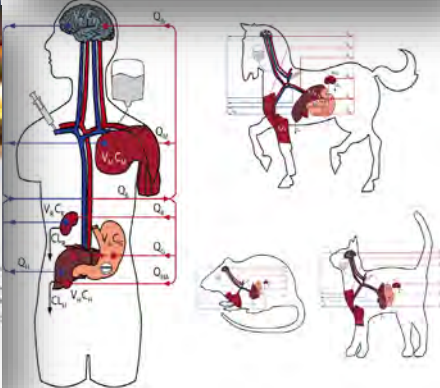
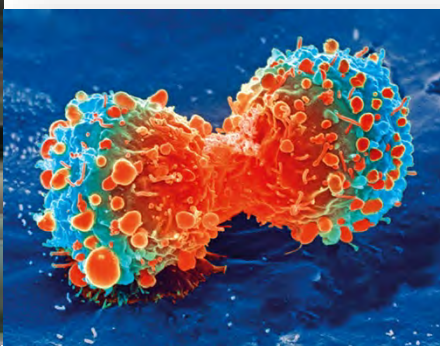
# Philanthropy Advances Discoveries in Cancer Research



- Dr. Luke Wittenburg, thanks to an anonymous gift focuses on pharmacology of chemotherapeutic agents → impacting translational medicine



- **NEW NIH Career Development K Award!**





# Philanthropy Supporting Faculty



- **Dr. Robert Rebhun** appointed by Chancellor May as the inaugural **Maxine Adler Endowed Chair in Oncology** effective March 1, 2018, for a five-year term.
- Strong research foundation in basic and applied cancer biology with a focus on mechanisms of metastatic disease, and comparative and translational aspects of tumor biology and therapeutic strategies
- Recent award of a **NIH “Cancer Moonshot” U01 grant**, focused on comparative immunotherapeutics in naturally occurring canine cancer

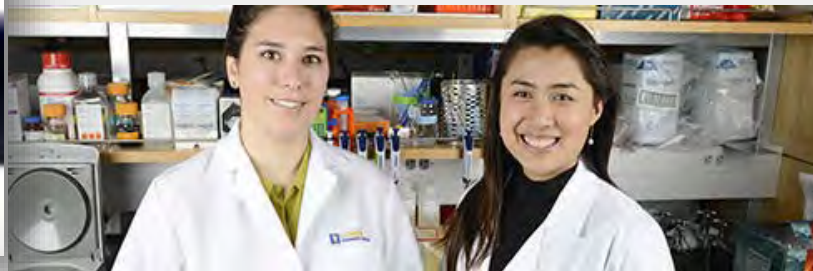
# Impact of Development in Educating Veterinary Students



- **Tuition and Fees** -stabilized tuition & fees since 2011 -Current 1<sup>st</sup> -3rd yr cost \$31,665 (4<sup>th</sup> yr \$35,735)
- **Increased Financial Aid** -through loans, grants and scholarship support -~1/3 of all tuition returned as financial aid
- School's scholarship **endowment >\$69 million**, one of the largest in the country
- **In 2018, provided >\$2 million in scholarships and another \$4.7 million in financial aid**, as well as \$500 to each first-year student for computer support



Thank  
you





# Challenges Faced/Facing the School



- **Student debt** and rising cost to educate veterinary students
- **State support** unlikely to be increased as substantial portion of budget and budget cuts
- **Fundraising for new Veterinary Medical Center** – largest capital project in SVM history
- **Faculty and staff salary scale, benefit costs,** and gap among peers
- **Leadership development and managing conflicts** and professional behavior
- Balancing **wellness in a high-performance environment**
- **Diversification** of students and workforce
- **Innovative ways to enhance revenue** to maintain #1 status

# Opportunities and Strengths



- Exceptional **quality of faculty, staff, and students**
- **Resources and reputation** of SVM at UCD and beyond
- Strategic **planning for the future**
- **Donor funding base in California** and beyond – capacity
- **Stakeholder engagement and support – partnerships** to enhance mission
- **University and community support**
- **Alumni** – as network to enhance mission and connect to School
- **Societal impact of discoveries** to advance animal, human, and environmental health



# Questions?





# 2018 Alumni Achievement Awards



- Each year, the School of Veterinary Medicine honors distinguished graduates with Alumni Achievement Awards



- Highest honor bestowed by the school. Honorees may be graduates of the school's DVM, MPVM, and graduate academic programs, or individuals who have completed internships or residencies





# Distinguished Alumni Achievement



## **Stanley Creighton, DVM, DACVIM**

Recognition of his vision, effort, and leadership as the founder of NVA

- Approach enabled the organization to thrive for >20 years, employing more than 9,000 people in U.S., Canada, Australia and New Zealand
- DVM degree from UC Davis in 1972 before pursuing an internship and residency at the Animal Medical Center in New York
- American College of Veterinary Internal Medicine (ACVIM) in 1977 and served as associate professor at the University of Saskatchewan from 1975 to 1976
- Creighton is acknowledged for his farsighted leadership in practice ownership
- Active participant in veterinary business groups nationwide and is looked upon and an expert in practice management

# Distinguished Alumni Achievement



## Howard Hill, DVM, M.S., Ph.D.

In recognition of his contributions to the health and welfare of swine and to the nation's pork industry

- 20 years on the faculty of the College of Veterinary Medicine, Iowa State University, Veterinary Microbiology Section of the Veterinary Diagnostic Laboratory
- Director and COO with Iowa Select Farms where his colleagues recognize him as “Master of the Pork Industry”
- Diagnostic leader and professor, taught veterinary and graduate students and served the animal production industries, in its national fight to eradicate pseudorabies (PRV) - Development of the gene-deleted PRV vaccine and companion diagnostic tests
- Work to reduce porcine reproductive respiratory syndrome—a significant biosecurity challenge due to its airborne transmission
- Active with the state and national pork producer organizations on public policy and industry related legislative issues
- DVM at UC Davis in 1969, M.S., Ph.D. Iowa State University in microbiology



# Distinguished Alumni Achievement



## **Philip Kass, DVM, MPVM, M.S., Ph.D., DACVPM**

In recognition of outstanding achievements in epidemiological research and distinguished leadership

- >500 publications and 64 mentorship of DVM, MPVM, Ph.D. students and residents, evidence-based medicine to veterinary science
- Natural teacher of epidemiological concepts & support clinical research
- Global impacts as a researcher, teacher and mentor, and a scientific leader -- exotic, small and large animal, and human-focused studies
- Major administrative and leadership positions -recognized for his thoughtful and engaged contributions
- Earned his DVM (1982), MPVM (1984), M.S. in statistics (1988) and Ph.D. in comparative pathology and epidemiology (1990) at UC Davis
- Joined faculty in 1985 → through the professorial ranks during his distinguished career, American College of Veterinary Preventive Medicine in 2007
- Appointed Vice Provost of Academic Affairs in 2017

# Distinguished Alumni Achievement



## Jon Klingborg, DVM

In recognition of dedication, leadership and commitment to the health and welfare of the veterinary profession and animal patients

- >20 years at forefront of policy, regulatory, political advocacy, and leadership for California's veterinary profession
- DVM from UC Davis in 1992 and veterinary private practice
- Long view of changing public policy, committed to inspire change through numerous committees and task forces with CVMA
- Writes extensively for newspapers (250+ articles) and many blogs on dog and cat health
- Unprecedented tenure as chairman CVMA Legislative Committee --- an industry leader thoughtful, bright and pragmatic and poised when testifying before legislators or speaking to media outlets



# Distinguished Alumni Achievement



## **Pamela L. Ruegg, DVM, MPVM, DACVPM, DABVP**

In recognition of her extraordinary service to dairy farmers, dairy cattle, and consumers of dairy products around the world

- Significant contributions to the prevention and control of mastitis with evidence-based guidelines to reduce antimicrobial usage
- Milk quality and food safety, such as storage conditions, anatomy, bedding, milking procedures, etc.
- Studies of mastitis --treatment outcomes, culture-negative cases, and antibiotic usage; published 110 peer-reviewed papers, 12 book chapters and hundreds of invited papers, abstracts, etc.
- Highly effective teacher and outstanding public speaker--international work in dairy cow health and milk quality
- UC Davis MPVM in 1988, and Residency in 1989; served at the Atlantic Veterinary College, Michigan State University, and Monsanto, before University of Wisconsin-Madison in 1998

# Retiring Faculty





# Retiring Faculty



**Carolyn “Cary” Craig, DVM, DACVAA**

**Professor of Clinical Anesthesiology**

Dr. Cary Craig has been a member of the faculty for 20 years as a professor of clinical anesthesiology. Craig is highly respected for her sustained level of competent patient care into which she skillfully integrates experiential teaching.

She is described as passionate about her work, able to create a calming and nurturing clinical learning environment, and appreciated as a role model for her perseverance and work ethic. In 2014, Craig served on the American College of Veterinary Anesthesia and Analgesia Job Task Assignment Committee to define and describe knowledge and skills required by boarded anesthesiologists to perform their jobs in academic, private and corporate sectors as a basis for rewriting the board certifying exam.

Students appreciate the confidence that she cultivates in their ability to develop competence and knowledge in anesthesia and analgesia. Residents consider her an outstanding clinical mentor and faculty peer. Craig maintains a healthy balance by pursuing her passion as a competitive runner and is now a top triathlete in her age category.

# Retiring Faculty



## Rance B. Lefebvre, Ph.D.

### Professor of Pathology, Microbiology and Immunology

Dr. Rance Lefebvre joined the faculty in 1986 as an assistant professor in microbiology with research expertise in Lyme disease, leptospirosis and other zoonotic pathogens. He published 48 research papers and contributed seven book chapters on veterinary microbiology.

LeFebvre established an outstanding record of achievement in higher education instruction and mentored veterinary, graduate, undergraduate and secondary school students. He taught veterinary and human medical biology to both undergraduates and veterinary students. As the Associate Dean for Student Programs, LeFebvre administered pre-veterinary advising, admissions and academic advising.

In 2004, LeFebvre received the school's Distinguished Faculty Teaching Award for his contributions to DVM, graduate, undergraduate, and high school student education in math and sciences. Graduating DVM students twice selected him as faculty commencement speaker. LeFebvre served on a number of school and university committees, including the Graduate Group in Comparative Pathology and the Student Affairs committee, and provided mentorship to the Veterinary Student Public Health Club.



# Retiring Faculty



**N. James Maclachlan, BVSc, M.S., Ph.D.**

Professor of Pathology, Microbiology and Immunology

Dr. Jim Maclachlan joined the faculty in 1987 with a focus on infectious diseases. His research was instrumental in the decision to relax bluetongue non-tariff trade barriers for U.S. cattle imported into Canada for the first time in 37 years, and he helped develop recombinant African horse sickness vaccines.

Maclachlan was selected as the faculty commencement speaker for the class of 1994. He received the Outstanding/Favorite Teacher Award four times, the Norden Distinguished Teacher Award in 1993, the Pfizer Animal Health Award for Research Excellence in 2003, and the school's Alumni Achievement Award in 2007. He published 202 peer-reviewed papers and a number of chapters and reviews.

He served in a number of leadership roles, including: the inaugural chair of the Department of Pathology, Microbiology and Immunology from 1993 to 2003; president of the American College of Veterinary Pathologists; chair of the American Association of Veterinary Laboratory Diagnosticians bluetongue diagnosis committee; and as a member of the American Society for Virology International Committee for Taxonomy of Viruses.

# Retiring Faculty



## Frederick “Chuck” Mohr, DVM, Ph.D.

### Professor of Pathology, Microbiology and Immunology

Dr. Chuck Mohr joined the faculty in 1987 as an assistant professor in pathology and throughout his career sustained a record of highly effective clinical and classroom teaching. His dedication to resident instruction in anatomic pathology and facilitation of joint veterinary/human pathology rounds to diversify their training is renowned.

His research focused on nephropathology; environmental pathology and toxicology; biological effects of petroleum oil pollution; and general pathology. He advanced the knowledge base through more than 52 publications and 31 abstracts. His original research contributions to improved classification of glomerular disease in dogs not only reflects his creative scholarship, but his outstanding teaching with the tangible benefit of improved diagnostics and patient care.

Additionally, he co-authored a chapter on urinary disease in the gold standard veterinary pathology reference text. He was the Master Advisor for the Graduate Group in Comparative Pathology (now Integrative Pathobiology) and served the school in a broad capacity, including membership on the MPVM Admissions and Student Affairs Committee, Admissions, and Curriculum committees. Mohr also served as editor for the *Journal of Comparative Pathology* for many years.



# Retiring Faculty



## **Peter F. Moore, DVM, Ph.D.**

Professor of Pathology, Microbiology and Immunology

Dr. Peter Moore joined the faculty as an assistant professor in 1979, with a research focus on leukocyte antigen biology and spontaneous leukocytic diseases of companion animals—especially the dog, cat and horse.

His work has been instrumental in developing new diagnostic tests and treatment recommendations for dogs with lymphoma, leukemia, or histiocytic neoplasia. Moore is also respected by his colleagues for his generosity in sharing the monoclonal reagents that his laboratory developed – long before these became commercially available. He published studies in more than 100 publications and numerous book chapters.

Moore served as the associate director of Anatomic Pathology in the VMTH for six years. He also served on numerous committees and contributed to the Optical Biology Executive Committee for more than 20 years. He received the World Small Animal Veterinary Association /Waltham International Award for Scientific Achievement in 2008, and the Pfizer Award for Research Excellence in 1998. He was twice honored with the Charles Louis Davis Foundation Journal Scholarship Award for research publications.

# Retiring Faculty



## **Jorge E. Nieto, MVZ, Ph.D., DACVS, DACVSMR** Professor of Surgical and Radiological Sciences

Dr. Jorge Nieto came to Davis more than 20 years ago as a visiting assistant professor and formally joined the faculty in 2007. He is considered an outstanding clinician, mentor, teacher and colleague who is an excellent role model for both students and residents.

Nieto completed an equine surgery residency and a Ph.D. before becoming a faculty member in Equine Surgical Emergency and Critical Care. He is a diplomate of the American College of Veterinary Surgeons and the American College of Veterinary Sports Medicine and Rehabilitation. He contributed to the diagnosis of colic, specifically intestinal ischemia, and treatment of gastric ulcers in horses and is considered by his colleagues to be the “cornerstone” of the equine surgery program.

Nieto is an accomplished educator of DVM students and mentored many residents during his tenure. He was honored with the school’s Faculty Clinical Excellence Award in 2016 and was twice honored with the school’s James W. Wilson Award for Most Outstanding Equine Research Publication.



# Retiring Faculty



## Peter J. Pascoe, BVSc

### Professor of Surgical and Radiological Sciences

Dr. Peter Pascoe joined the faculty as an assistant professor in 1989, with a research focus on anesthesia and analgesia of dogs, cats and horses. He helped develop and evaluate new regional anesthesia techniques and novel minimally invasive surgical procedures.

His research generated 102 publications and 38 book chapters, and he was an invited speaker at numerous conferences and continuing education symposia on small animal pain management. Pascoe was known for creating a nurturing learning environment in the operating room. His commitment to the education of professional students included his participation on the curricular development committee across several blocks from 2009-2013.

Pascoe provided substantial leadership to the American College of Veterinary Anesthesia and Analgesia (ACVAA), serving as editor, chair and board member. He was recognized for his dedication to the specialty college with the ACVAA Presidential Service Award in 2003 and received the Langley Award for the best paper published in *Veterinary Anesthesia and Analgesia* in 2004.

# Retiring Faculty



## **Fern Tablin, VMD, Ph.D.**

### **Professor of Anatomy, Physiology and Cell Biology**

Dr. Fern Tablin joined the faculty in 1985, with a research focus on platelet physiology and the role of platelets in health and disease. She specifically focused on the contribution of platelets to the systemic, cardiac and pulmonary proinflammatory responses to air pollution.

As co-director for the Center for Biostabilization, Tablin developed novel methods for storage of blood cells and nucleated cells in the dry state. For more than a decade, Tablin led the dual degree Veterinary Scientist Training Program and is recognized for her mentorship of trainees, which contributed to their individual success and national recognition of the program's quality.

Tablin served as the department chair of Anatomy, Physiology and Cell Biology, chair of the faculty, and member of numerous school and campus committees including service on the university's Privilege and Tenure Committee. She was inducted into the American Association for the Advancement of Science in 2002 and awarded the Pfizer Distinguished Teacher Award in 2012. She is now serving on the American Veterinary Medical Association's Council on Education.



# Retiring Faculty



## W. David Wilson, BVMS

### Professor of Surgical and Radiological Sciences

Dr. David Wilson joined the faculty in 1981 and served in numerous administrative roles during those 36 years, including: director of the Center for Equine Health, director of the William R. Pritchard Veterinary Medical Teaching Hospital (VMTH), and associate dean of Clinical Programs.

As VMTH director, Wilson's visionary leadership resulted in increased operational efficiencies, the addition of new services, expanded patient care and increased client/referring veterinary services.

Wilson has served a critical role in facilities planning for the new Veterinary Medical Center, from detailed project design and effective phasing of construction, to the vision for future needs as the profession evolves.

Wilson advanced the field of equine internal medicine and infectious diseases, actively engaged in teaching DVM students and residents, and conducted research resulting in 123 scientific publications, 64 book chapters and 120 other publications. He delivered more than 280 presentations and served on more than 150 department, school and university committees and dozens of professional society committees. He was awarded the Carl J. Norden Distinguished Teacher Award in 1989.

*Thank You  
Please Join Us in the Reception!*

