State of School 2019



Michael D. Lairmore

Dean and Distinguished Professor University of California, Davis School of Veterinarian Medicine

Leading Veterinary Medicine, Addressing Societal Needs



- > AVMA Council on Education Full Accreditation
- > Ranked #1 in US (US News and World Report)
- Ranked #2 in QS World Rankings for 2019 (#1 2015 -2018)



Strategic Plan 2018 -2023





Mission

Advance the Health of Animals, People, and the Environment



Vision

Leading Veterinary Medicine Addressing Societal Needs



Goal 1.0 - Educate World Leaders in Academic Veterinary Medicine, Veterinary Medical Practice, Biomedical and Agricultural Research, Industry, Government, and Public and Environmental Health





Class of 2023

Students – 150 (1122 apps)

- California 133
- Non-Residents 15
- International 2
- Females 127
- Males 23
- Avg. Science GPA 3.62
- Avg. Most recent 45 sem. units GPA 3.78
- Avg. Quant GRE Score 74%
- Avg. age 23 (Range 20-37)
- 41% URM students
- First Generation Students 29

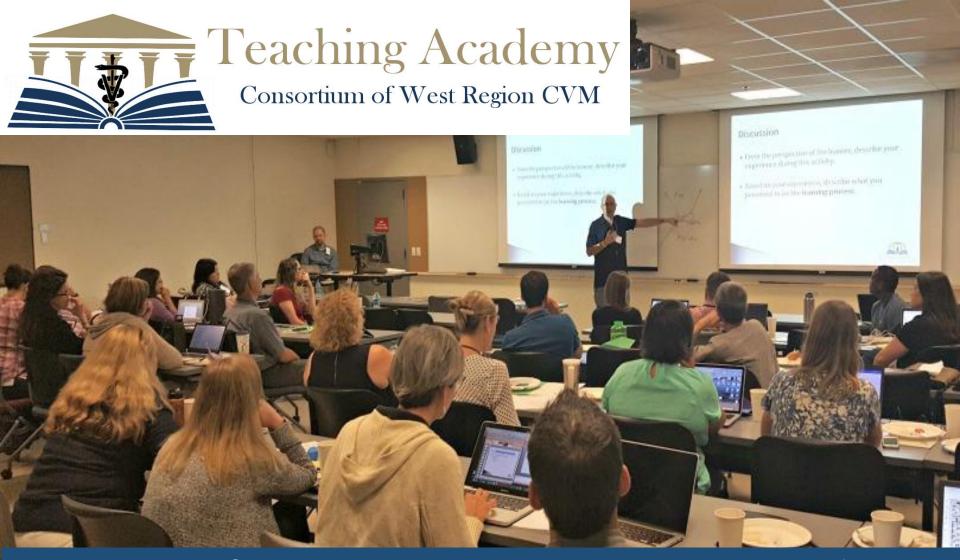






Goal 1.1 - Promote Faculty and Staff Engagement in Career Development Programs and Best Practices for Educators





Biannual Conference June 25-27, 2019 – Davis, CA - The Cognitive Integration of Basic and Clinical Sciences





Award Winning Faculty and Staff

- Positively Impacting the World





New Faculty

- Expanding Talent, Diversity, and Ideas





Metacognition Project

- A Strategy for Improving Learning





Goal 1.3 - Establish and Maintain Programs and Strategies that Promote a Diversified Professional Community

- <u>career</u> coaching, <u>leadership</u> training, <u>counseling</u> services, <u>wellness</u> programs





Goal 1.4 - Implement Multiple Strategies to Reduce Educational Debt for Professional Degree and Graduate Students





Scholarship Information:

- ✓ % of Students Receiving Scholarships: 56.3%
- ✓ % of First Year Students Receiving Scholarships: 99.3%
- ✓ Avg. Scholarship Award to 1st Year Students: \$18,535
- ✓ Mean Indebtedness : \$136,127 (Natl Avg. \$169,046)



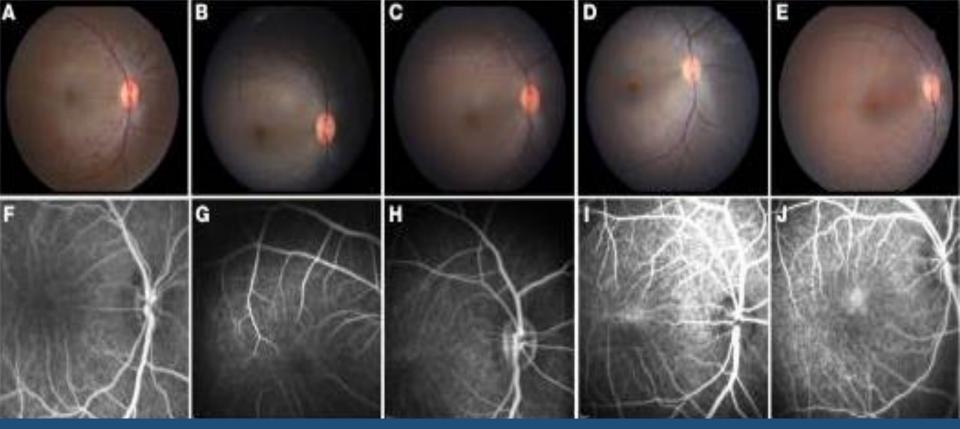






Goal 2.1 - Promote Innovative Multi-Disciplinary Collaborations to Address Societal Needs



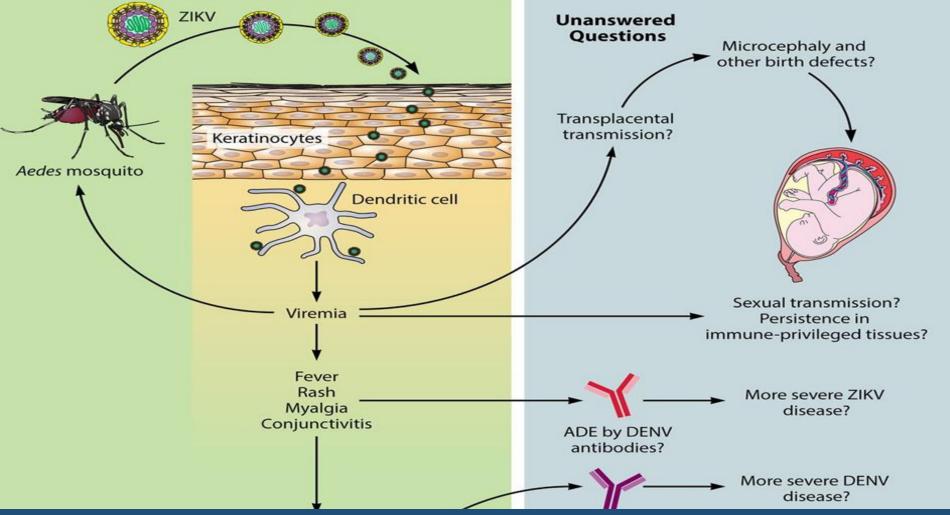


Inherited retinal degenerations are a common cause of untreatable blindness worldwide

-Nonhuman primate model of inherited retinal disease for therapeutic gene replacement/ gene editing

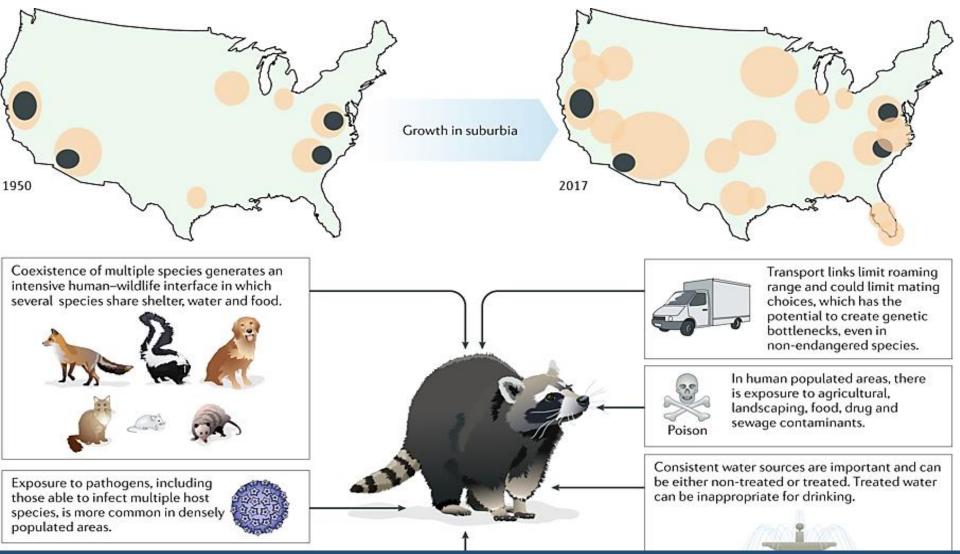
Davis S, Pomerantz O, and Thomasy S. J. of Clin. Invest., Feb. 2019





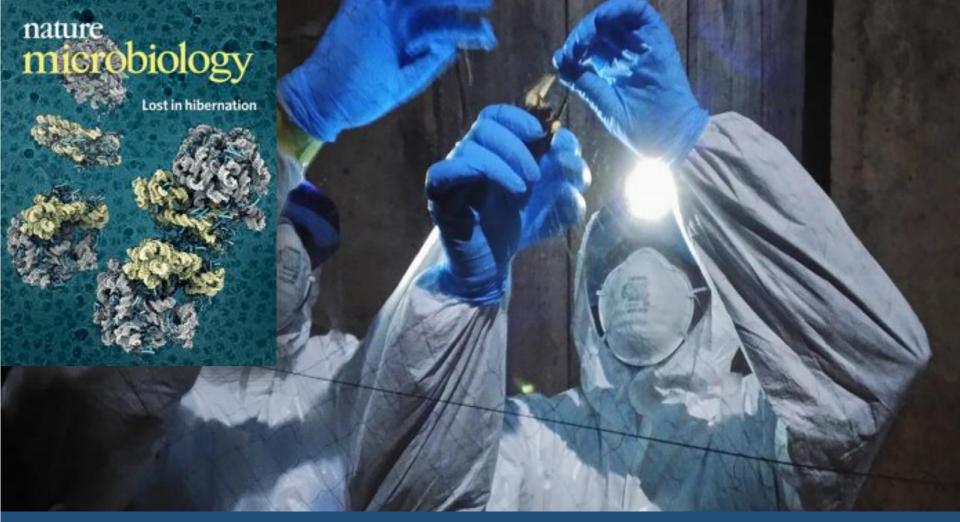
Miscarriage and stillbirth following maternal Zika virus infection in nonhuman primates. Dudley D, Van Rompay K, Coffey L, et al., Nature Medicine 2018 Intra-amniotic Zika Virus Inoculation of Pregnant Rhesus Macaques Produces Fetal Neurologic Disease, Coffey L., et al., Nature Communications, 2018





Cancer in Wildlife: Patterns of Emergence, Insights for Causes of Cancer Pesavento P., et al., Nature Reviews Cancer 2018





Discovered a <u>new ebolavirus</u>, Bombali virus, in free-tailed bats in Sierra Leone. Goldstein T., Mazet J., et al., <u>Nat Microbiol</u>. Oct. 2018



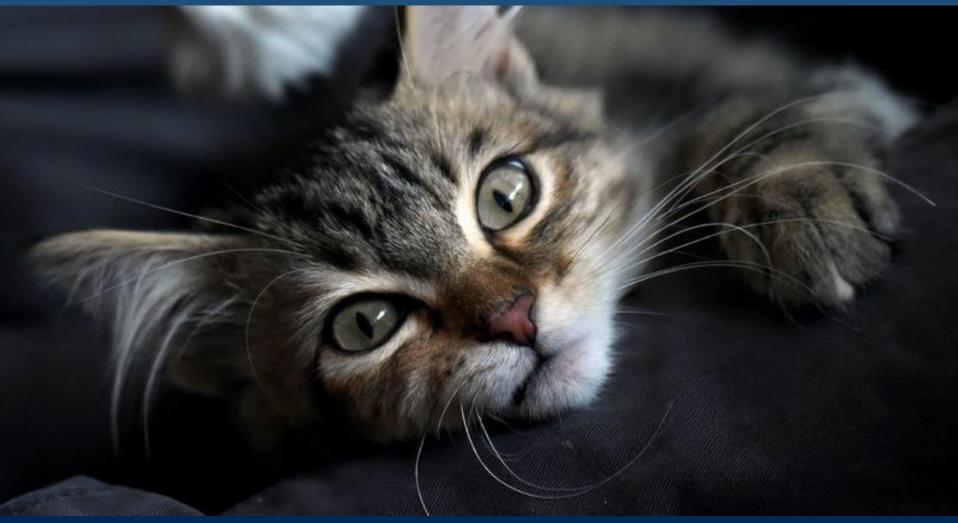
Center for Companion Animal Health – Improving the Lives of Companion Animals through Research

- \$1.7M in Research and Equipment Grants





New Hope for Fatal Disease of Cat - Nucleoside analog strongly inhibits feline infectious peritonitis virus Murphy, Pedersen, et al. <u>Vet. Micro</u>. 2018







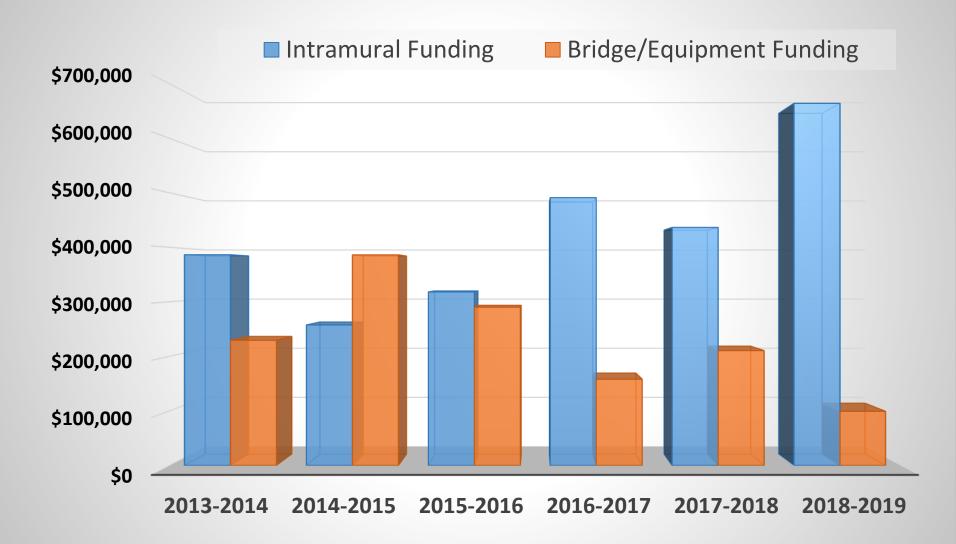
Evaluation of Housing, Care, and Risk Factors to Reduce Respiratory Disease in Sheltered Cats

Wagner DC, Kass PH, Hurley KF. PLoS One.

2018



Center for Equine Health Funded Research 2013-2019



Center for Equine Health – Advancing the Health, Welfare, Performance through Research and Education



Mutation Behind Immune-Mediated Myositis in Horses
Identified Finno, Valberg, et al., <u>Skeletal Muscle</u> 2018

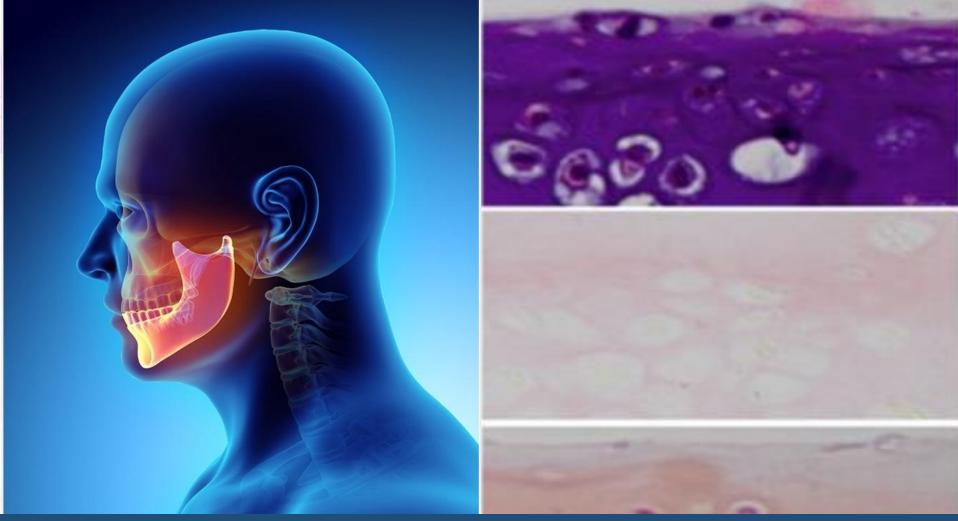




Goal 2.2 - Enhance Research Training and Experiential Opportunities for Clinician-Scientists, Residents, Veterinary Students, and Graduate Students







Novel tissue implant to safely treat temporomandibular joint dysfunction

Vapniarsky N. et al., <u>Science Translational Medicine</u>, Jun 2018



Genetic screening of mice discovers hundreds of new genes -potential new causes of hereditary blindness in patients. Moore et al. Nature Comm. Biology Dec. 2018





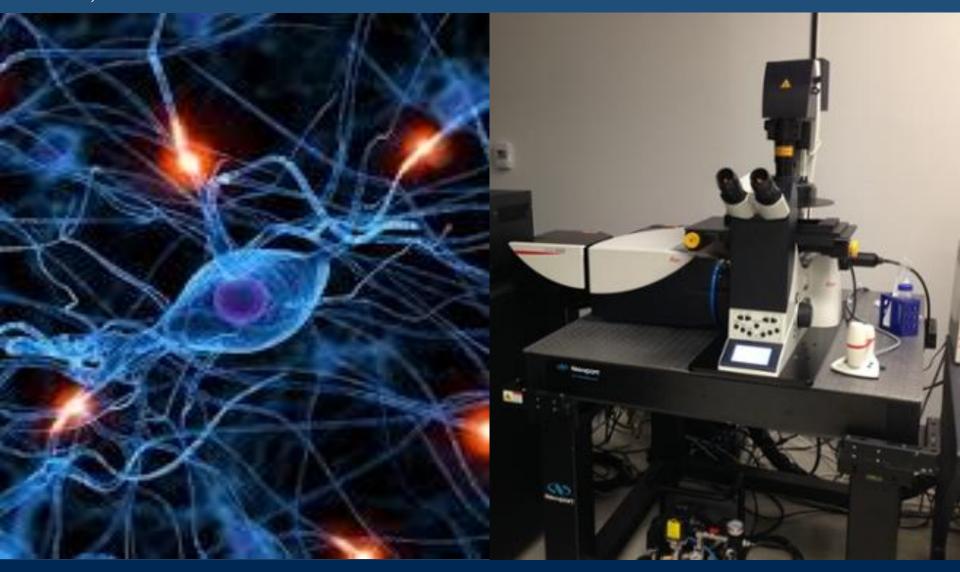
Microbes in Hummingbird Feeders Do Not Pose Health Hazard

Lee C., Hilfer T., Tell L., et al. Proc. Royal Society B March 2019





Goal 2.3 - Enhance Shared Resources that Support Clinical, Basic, and Translational Science



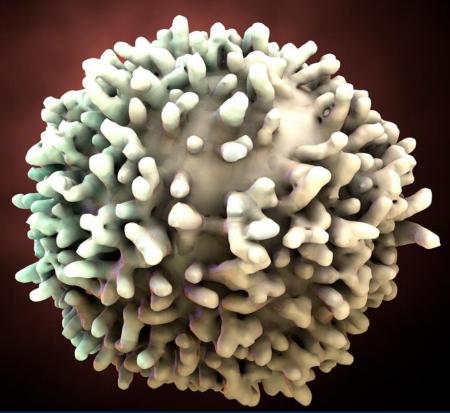


Center for Comparative Medicine – Translational Approaches to Understand Human and Animal Diseases

- breakthrough in protection against Salmonella infection—a critical step in effective and safe vaccine

Benoun J., McSorley S. et al., Proc. Natl. Acad. Sci. Oct. 2018







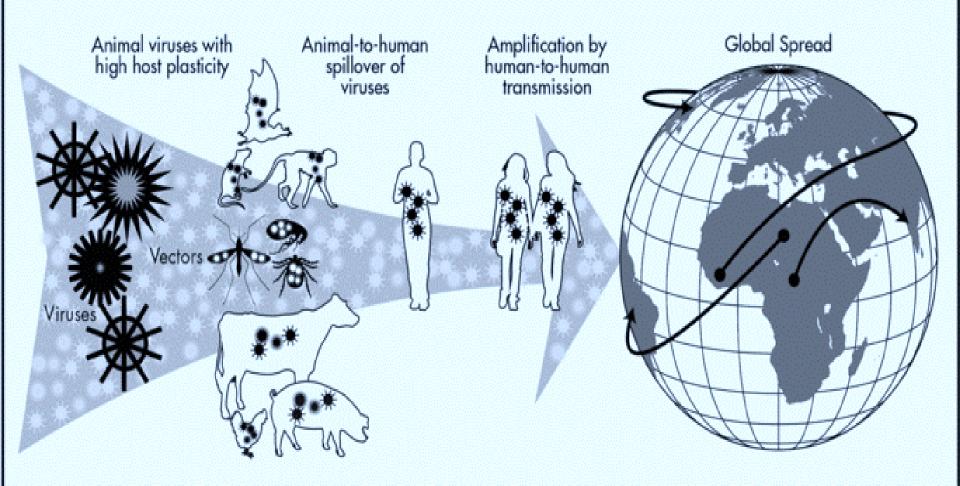
Veterinary Institute of Regenerative Medicine

-Pioneering regenerative medicine cures for animals and people





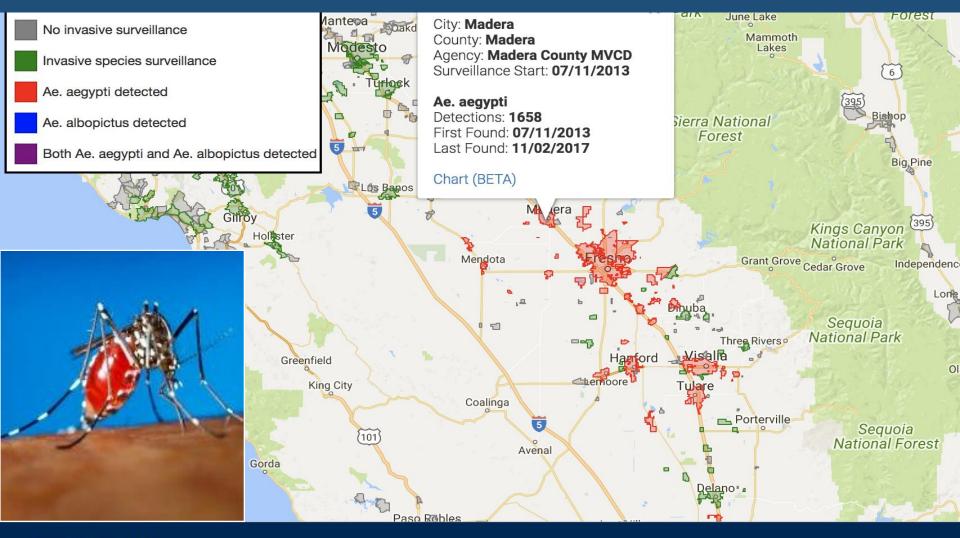
Predicting wildlife reservoirs and global vulnerability to zoonotic Flaviviruses. Pranav S. Pandit, Christine K. Johnson, et al. <u>Nature Communications</u> volume 9, (2018)



www.nature.com/scientificreports | 5:14830



Pacific Southwest Center of Excellence in Vector-Borne Diseases – cutting-edge epidemiological research to prevent the spread of vector-borne diseases







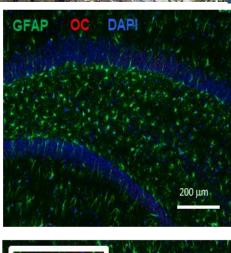
Center for Animal Disease Modeling and Surveillance (CADMS) - coordinated, multidisciplinary, research to develop models and modeling systems of animal diseases

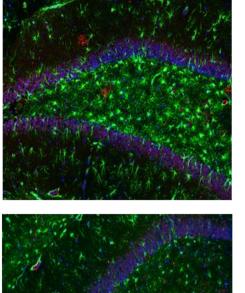


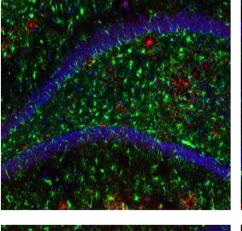


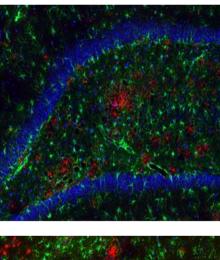
A novel facility to study effects of traffic-related air pollution on health outcomes

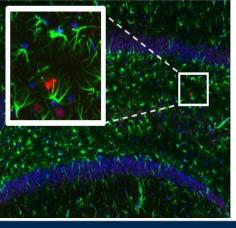


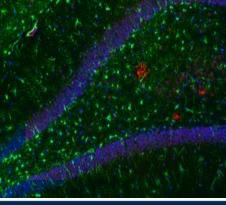


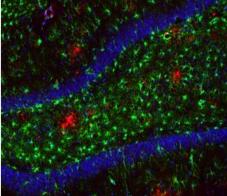


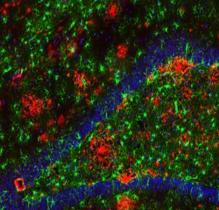
















Goal 2.4 - Promote Impact of School's Research to Enhance Recognition and Influence Policy and Stakeholder Engagement





Western Institute for Food Safety & Security



Cooperative Extension - delivering the power of knowledge and research to the people of California



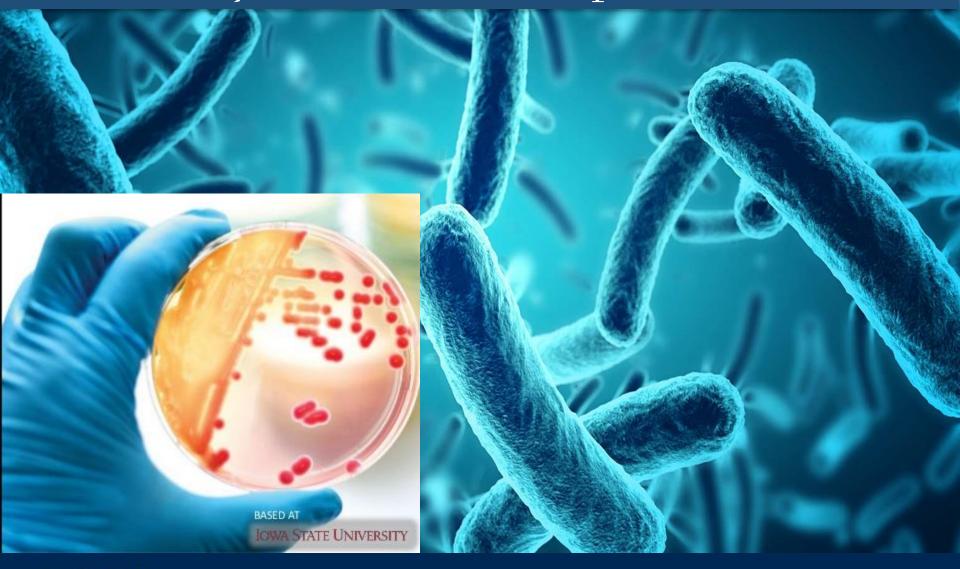
Environmental inactivation and irrigation-mediated regrowth of Escherichia coli O157:H7 on romaine lettuce

Chase, Partyka, Bond, and Atwill. PeerJ –Life and Environment March 2019



Antimicrobial Resistance

-Priority Issues of Global Importance





USDA funded multi-state specialty crop project - CE training for veterinarians on bee health and antibiotic use







- **AAVMC Legislative Briefing** "It's a Dog's Life' (that may save yours!)" July 2018 on Capitol Hill
- AAVMC Faculty Fellow
 Dr. Christine Kreuder Johnson June-July 2018 Washington, DC





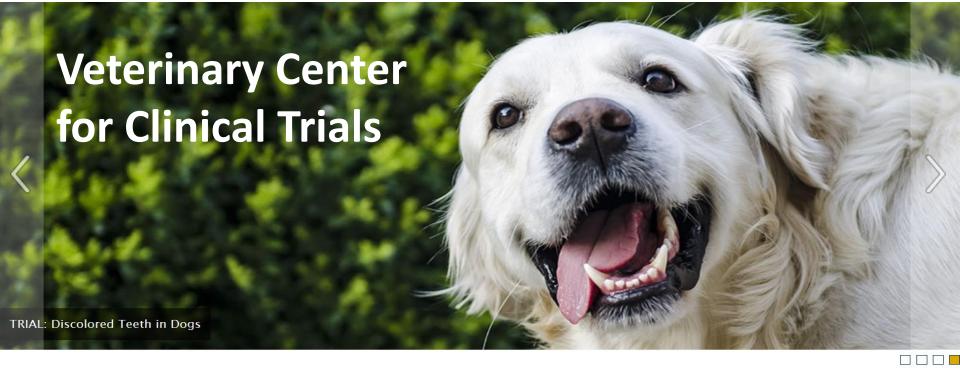
Goal 3.0 - Provide Cutting-Edge Clinical Programs that Deliver Exceptional Veterinary Services and Support Premier Education, Advanced Specialty Training, and Collaborative Translational Research





Goal 3.1 - Enhance the Veterinary Medical Center Services to Promote an Unmatched, Compassionate Patient Care and Client Experience















Cancer Consortium - demonstrated proof-of-mechanism for indenoisoquinoline TOP1 inhibitors in canine lymphoma supporting their further clinical development in people Burton J., et al., <u>Clinical Cancer Research</u> 2018





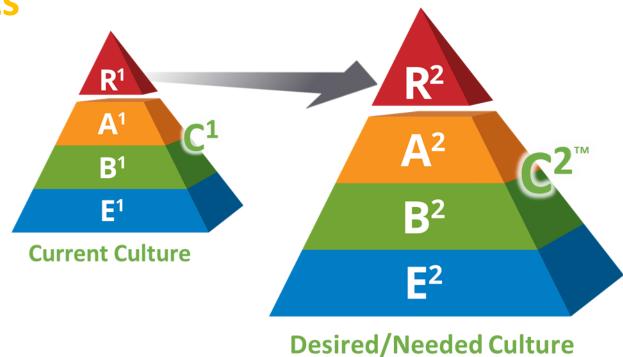
Goal 3.2 - Support Veterinary Medical Center Programs that Promote a Culture of Collaboration, Excellent Educational Experiences, and Effective Clinical Care



A Culture of Accountability

begins by clearly defining

the Results



Partners in Leadership – VMTH Program 2018-2019



Goal 3.3 - Advance Veterinary Medical Center Facility Plan, Operations and Infrastructure







VMC Fund Raising Progress

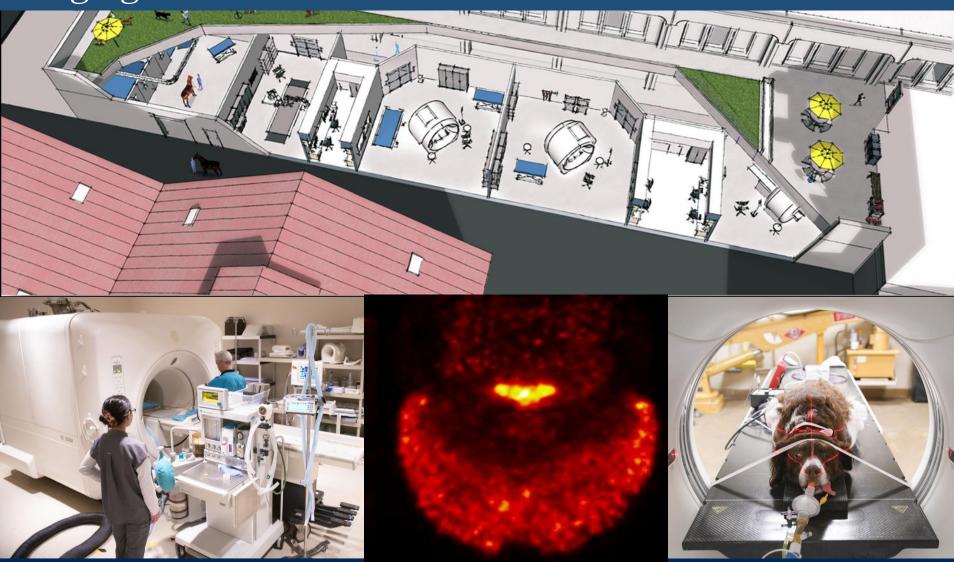
Total \$106,241,155 Phase 1 \$89,443,236







Next Project in Phase 1 - Matching Funding for All Species Imaging Established!





Goal 3.4 - Promote Expertise, Program Breadth and Innovation for Reputation and Philanthropic Success

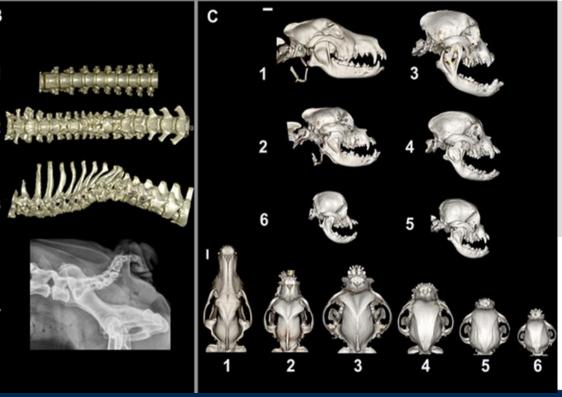


Comparative Genetics - to Understand the Basis of Disease in Animals and People Mansour T., Bannasch D., et al., <u>Plos Gen</u>. 2018

B. Vertebral columns - 3D
CT
reconstructions
malformations



A. Breeds - 1.
Boxer, 2. Bulldog, 3.
French Bulldog, and
4. Boston Terrier



C. Computed tomography - images of canine skulls showing the variation of skull morphologies



Taurine deficiency and dilated cardiomyopathy in golden retrievers fed commercial diets.

Kaplan, Stern, et al. Plos One Dec. 2018

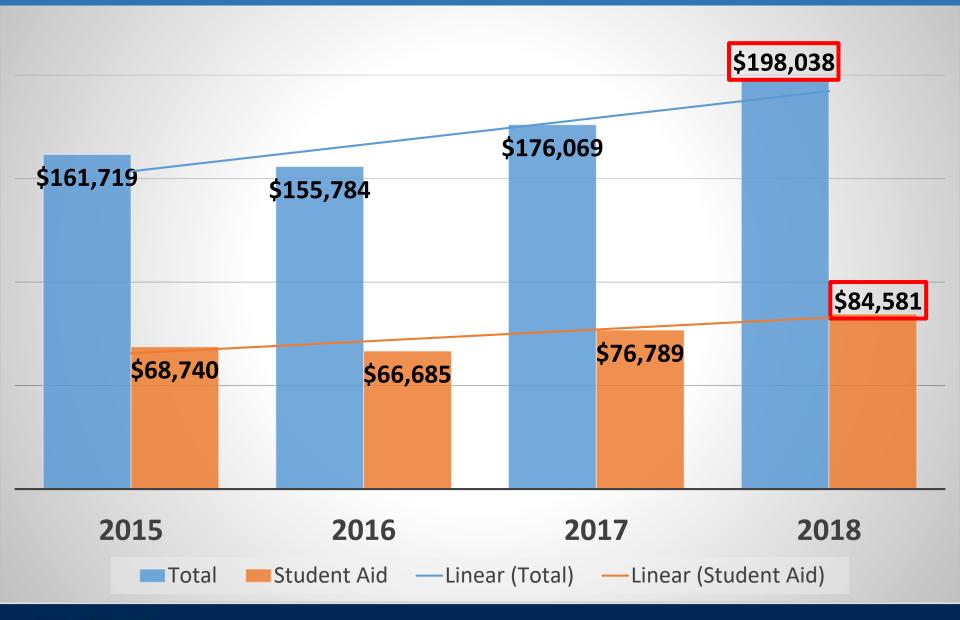








Endowment Market Value 2015-18 (\$ 000's)







Donor Gifts – Impact on the Missions:

- \$9M Estate gift-Feline research and care funds
- \$1.5M Gift-Feline care and disaster preparedness
- \$500k Gift-Clinical trials staff position support
- \$2.3M Estate gift-Endowed Chair





Goal 4.0 - Advance the Well-Being of Animals and People in California and Around the Globe





California Animal Health and Food Safety Laboratory

- Leading Diagnostics Nationally, Protecting California Locally



Investigation of an epidemic of Rocky Mountain spotted fever in Mexico and implications for spread to the U.S.

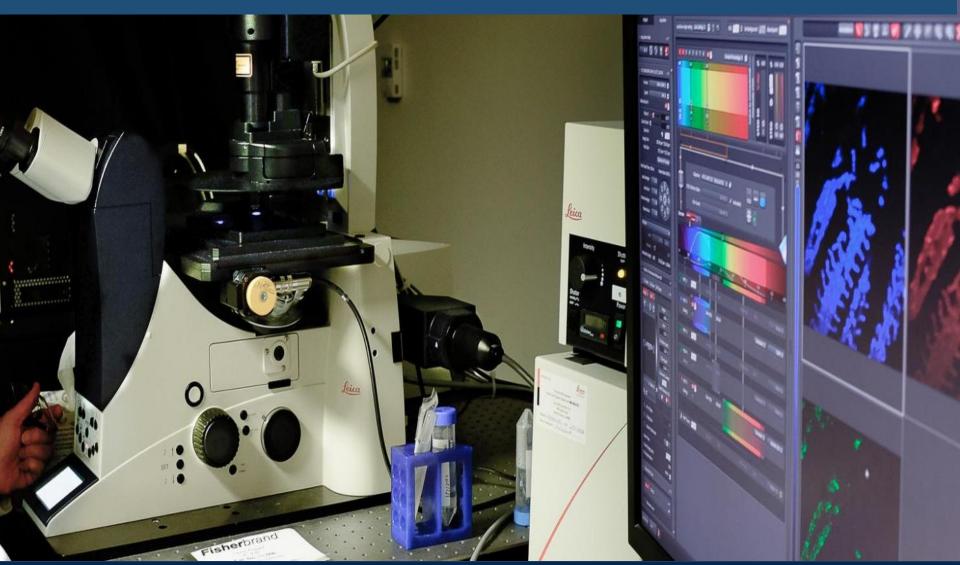
Foley J., et al., American Journal Tropical Medicine & Hygiene (in press)





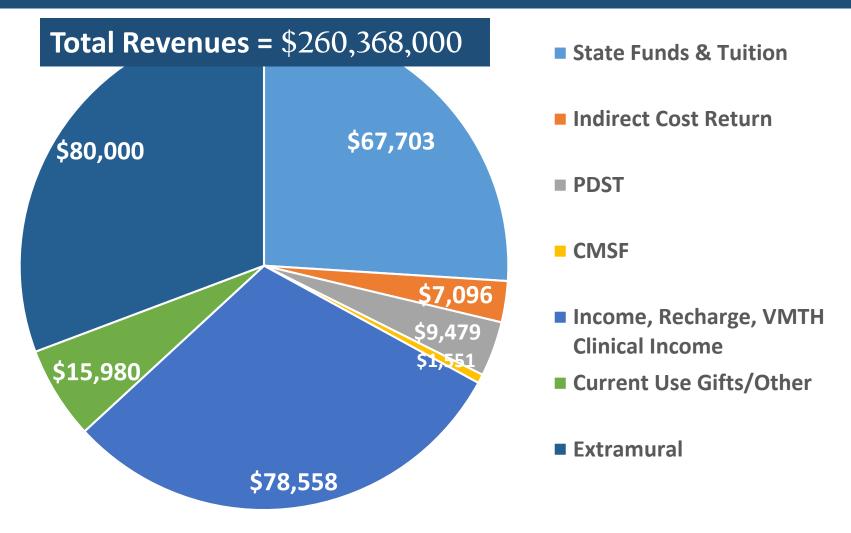


Goal 4.1 - Prioritize School Resources that Focus on Initiatives to Address Societal Needs





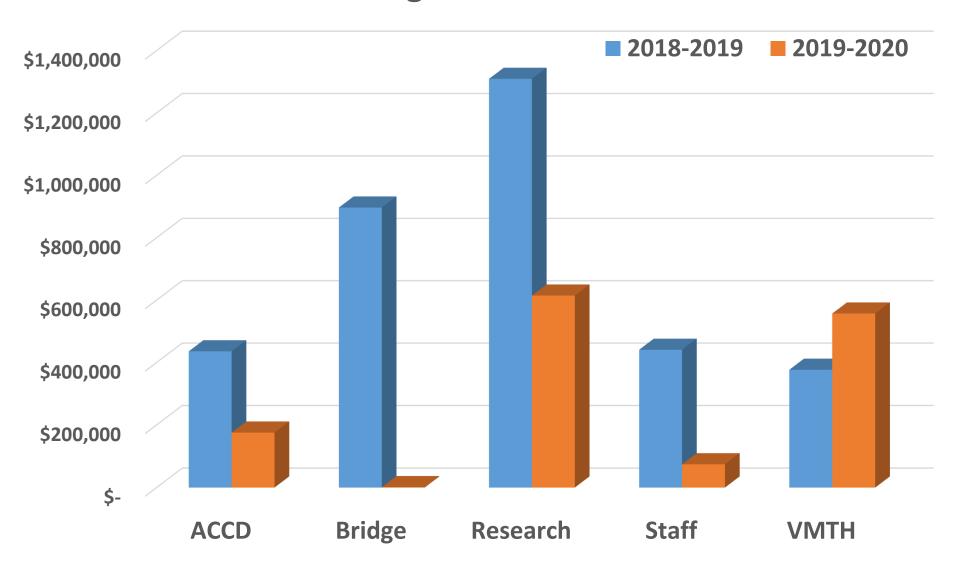
SVM Revenue Projection (in 000's) 2018-19



Total Core Funds = \$85.8M - Core Funds = State Funds/Tuition, ICR, Professional Fees, Course Fees



Strategic Investments





\$1.7 Mil. in Innovation Fund Investments 2014-2019

-Expanding Student Career Options, Enhancing the Mission





Goal 4.2 - Enhance Communications and Engagement to Advance the School's Impacts





Center for Continuing Professional Education



Back to Previous Page

Foundations of Veterinary Business

Summer 2019 - Open to Veterinary Medicine Practitioners and Professionals

Registration is closed for Summer 2019. For interest in Summer 2020, please email ExecEducation@gsm.ucdavis.edu⊠

Download Flyer



12th Annual Back to School RVT/Vet Tech/Assistant CE S

Date: Saturday & Sunday, July 20-21, 2019

Time: 8:00 a.m. - 5:00 p.m. PDT

Location: Gladys Valley Hall, UC Davis

CE Credit: Up to 16 hours (pending approval)



2019 SoCal Vet Series: Diagnostics and Management of and Feline GI Disorders

Date: Friday, Saturday & Sunday, Oct. 4-6, 2019

Time: starts at 5:00 p.m. on Friday; ends at 4:20 p.m. on Sunday (PDT)

Location: <u>Hotel Maya - a Double Tree by Hilton</u> in Long Beach, CA



2019 Fall Festival: A Continuing Education Event

Date: Sunday, October 27, 2019 (Alumni Reunion on Oct. 25-26)

Time: 8:00 am - 5:00 pm PDT

Location: Gladys Valley Hall, UC Davis



Online Learning Only Courses

In addition to the live
webinar option available for
all of our onsite CE events,
we also offer
synchronous/asynchronous
online learning only courses.



Don Low Fellowship

Designed to meet California practitioner needs not available within residencies or other current programs. It is specifically intended for California practitioners.





Goal 4.3 - Increase Multicultural Awareness and Outreach to Underserved Populations and Communities



Global and Local Experiences to Enhance Skills and Cultural Awaren	ess

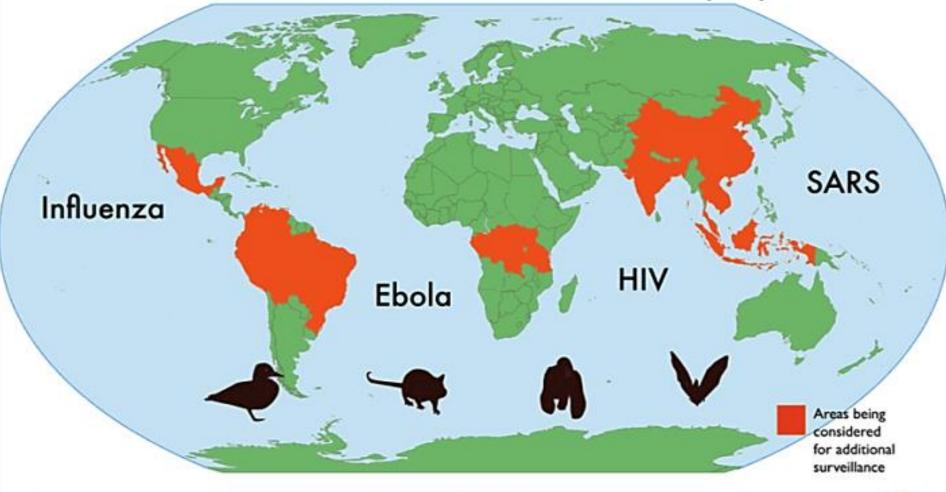




Goal 4.4 - Promote and Support the One Health Approach to Advance the Mission



PREDICT: Building a global early warning system for emerging diseases that move between wildlife and people



















One Health Institute team receives \$9.3M to Preempt Zoonotic Spillover Threats, Protect Military and Local Communities







Karen C. Drayer Wildlife Health Center - advance the health of wildlife in balance with people and the environment









Research to conserve mountain lions within urbanized landscapes - land protection, connectivity, and strategies to promote coexistence with humans.

Benson, Boyce et al. Ecol Appl. April 2019



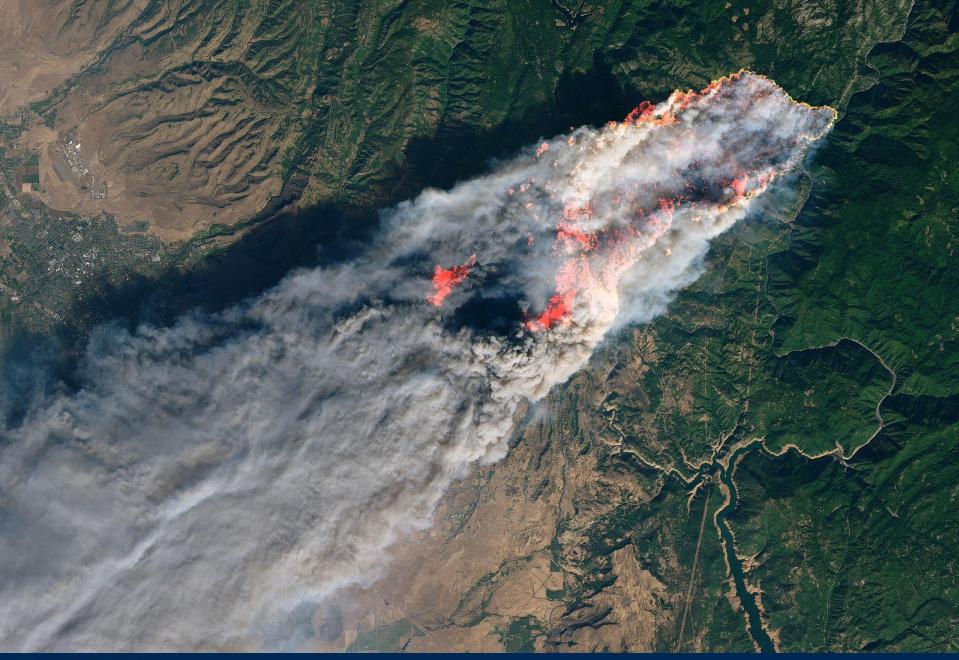






Planetary health - depend on flourishing natural systems and wise stewardship







Training – Students, Veterinarians, Animal rescue, Animal Sheltering, and Disaster Management Trainings







Reception to honor those who volunteered and cared for victims of the Camp Fire





Goal 4.5 - Use Information Technologies to Demonstrate Program Success and Impacts of Education, Research, and Outreach Programs



National Center for Genome Research data re-evaluated to create new transcriptome assemblies

Johnson, Alexander, and Brown et al., GigaScience, April 2019







Goal 5 -Promote a Vibrant and Diverse Community of Faculty, Staff and Students to Advance the Mission of the School in an Engaged and Respectful Community





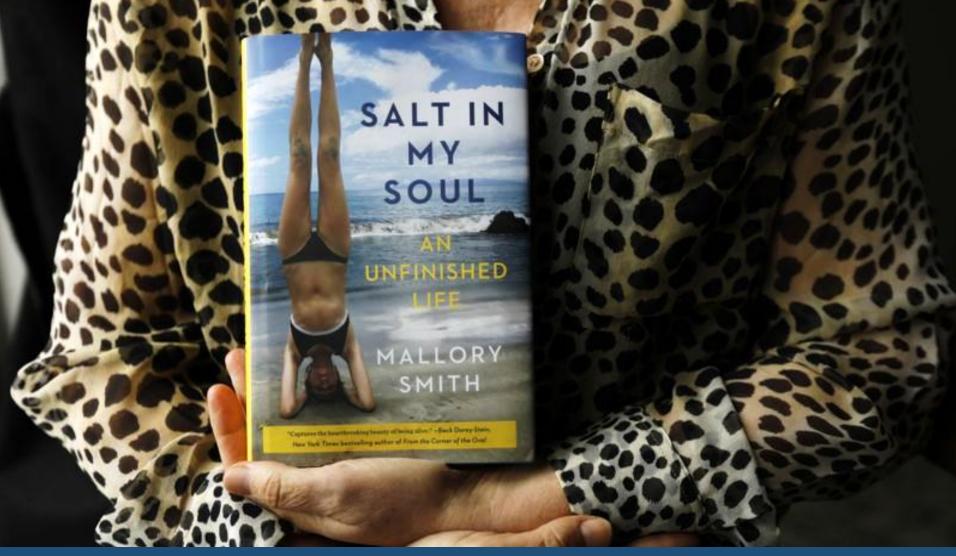
Goal 5.1 - Build Community through Values, Respect and Awareness for All





Goal 5.2 - Clarify and Support Expectations for Career and Personal Development of Faculty, Staff, and Students





Inspiring speakers to discuss resiliency in the face of stress – lessons for all of us





Goal 5.3 - Recognize the School's Sustainability and Success Depends upon our People Resources





Recognizing Staff Excellence



Memories of our lives, of our works and our deeds will continue in others. --Rosa Parks

In Memoriam





Leading veterinary medicine, addressing societal needs



Distinguished Alumni

- A Legacy of Accomplishment -





Dr. Clare Yellowley- 2018-2019 Chair of the Faculty

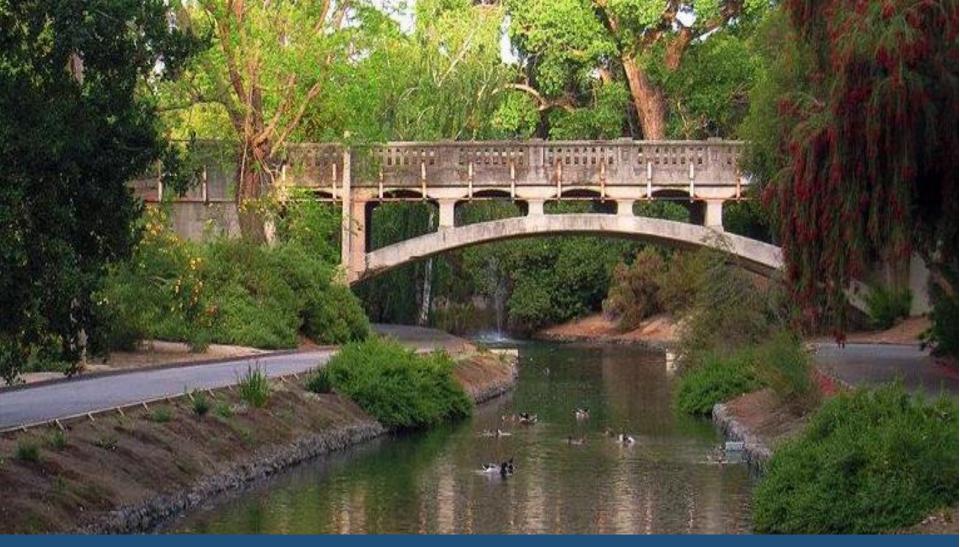
Exceptional Leadership and Service



Ms. Jo Cowen - Distinguished Service Award in recognition of her outstanding years of volunteer service and leadership at the California Raptor Center







2018-2019 Faculty and Staff Retirees and Leaders

- Our Foundation of Excellence -

