State of the School

2019-2020



Michael D. Lairmore

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

University of California Davis Veterinary Science



in Veterinary Science globally

S WORLD UNIVERSITY RANKINGS by Subject | 2020

S COMPS

Dr. S. 760



M

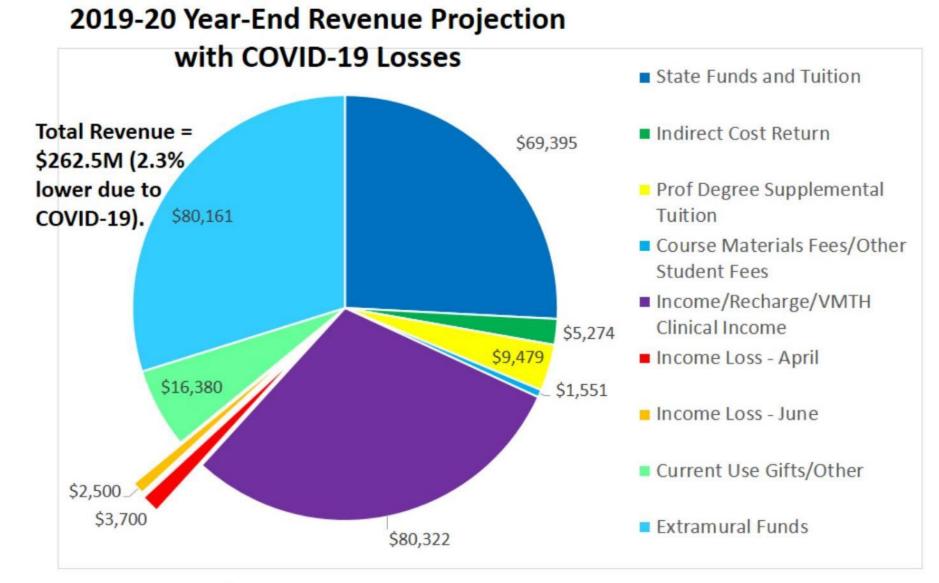
Mission

Advance the Health of Animals, People, and the Environment



<u>Vision</u> Leading Veterinary Medicine Addressing Societal Needs





Red pie slice indicates \$3.7M in income losses from the VMTH and Center Labs through April. Orange pie slice indicates projected \$2.5M losses for VMTH and Center Labs May - June.



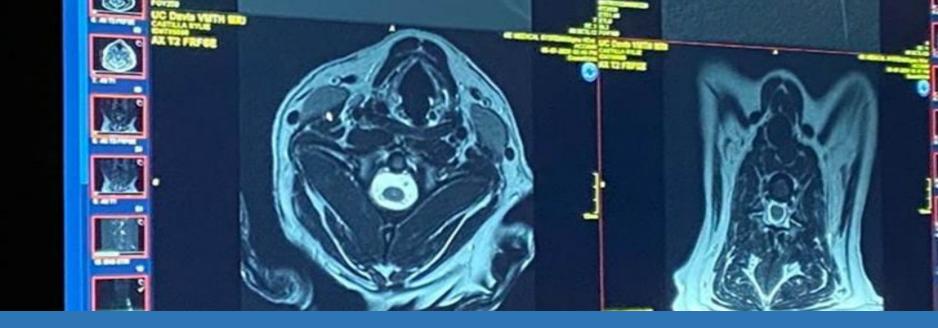
UC Davis Campus Structural Deficits **COVID19** Losses **Budget Advisory Task Force – Guiding Principles and** Strategy BUDGET

6



San ales ander a new - May how

22,144 202,934 314.51



VMACS Updates

Estimate Generator Client Portal Point of Service

VMTH iPhone Updates

Verizon > AT&T FirstNet 300+ iPhones XR



UC Path Transition

Updated 140+ Stored Procedures

100's of source code changes



COVID-19 Activities

Zoom Security Guidance

Faculty Digital Resource Guide VPN Access



We're in a Pandemic

요. 공연 최대 **40%** 명연 특화생활을 계획하세요! ((e) 28 54 명기 바람 명종





How did we get here?



COVID-19 Caused by SARS-CoV-2



- United States (5/20/2020
 - Infections ~1.5 mil
 - Deaths ~ >90,000
- California
 - Cases: ~84,000
 - Deaths: ~3,400







Ongoing Obstacles



PREDICT Receives Extension for COVID-19 Pandemic Emergency Response

Early Laboratory Detection of SARS CoV-2, Tracking Animal Source Among Priorities

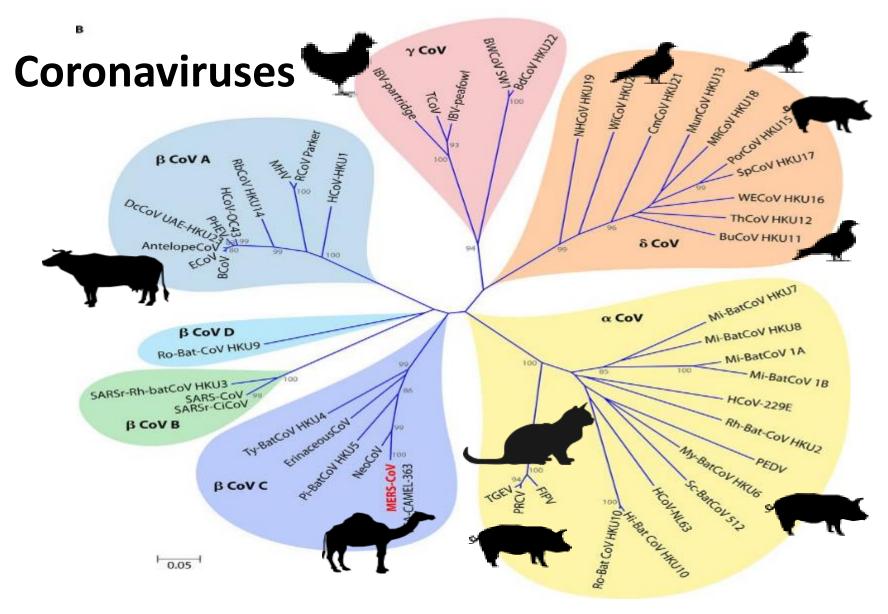
PREDICT



AID



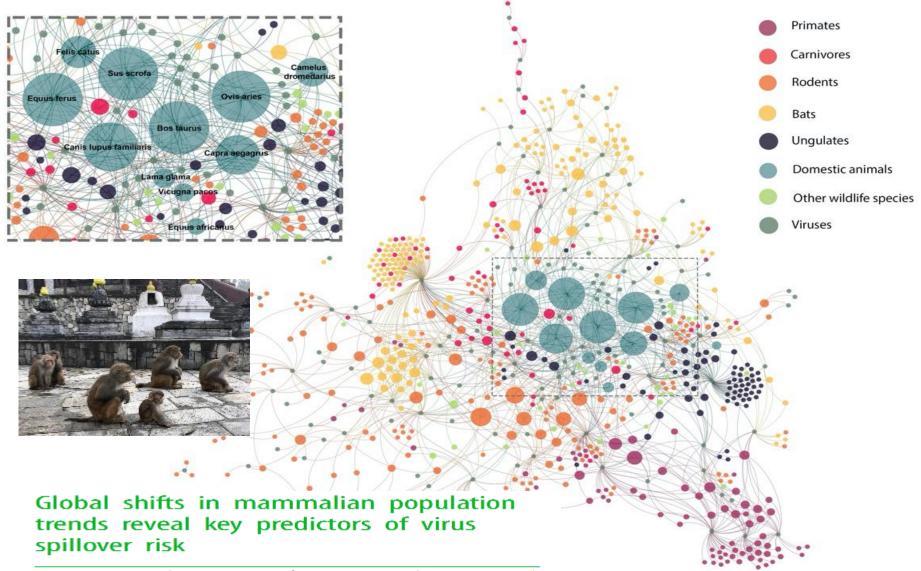




Jasper F. W. Chan et al. Clin. Microbiol. Rev. 2015; doi:10.1128/CMR.00102-14



Zoonotic Spillover Risk from Mammalian Hosts



Christine K. Johnson¹, Peta L. Hitchens², Pranav S. Pandit¹, Julie Rushmore¹, Tierra Smiley Evans¹, Cristin C. W. Young¹ and Megan M. Doyle¹

¹ EpiCenter for Disease Dynamics, One Health Institute, School of Veterinary Medicine, University of California, Davis, CA 95616, USA

ONE HEALTHWORKFORCE -CAPACITY STRENGTHENING









One Health Institute

CDAVIS

School of Veterinary Medicine







SEA®HUN Southeast Asia One Health University Network



Ata Health Strategies

The UC Davis School of Veterinary Medicine donated thousands of pieces of personal protective equipment (PPE) to UC Davis Health to aid in their efforts to battle the COVID-19 pandemic

Supply Donations 

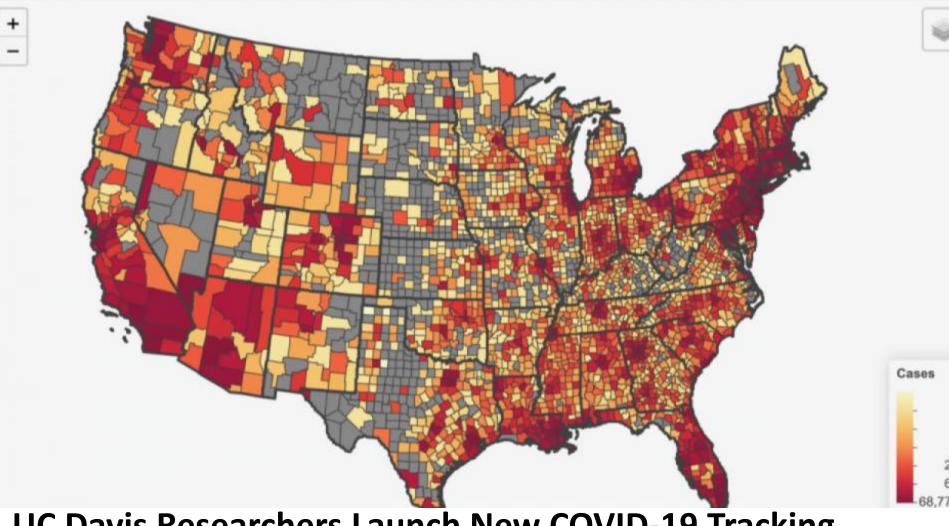
At UC Davis -Multiple units collaborating on new reagents, diagnostic tests and a vaccine for the COVID-19 coronavirus.



hermo



Graphs About



UC Davis Researchers Launch New COVID-19 Tracking

Application - Associate Professor Chris Barker <u>Named as Chancellor's Fellow, 2020</u>



The genome of the SARS-CoV-2 coronavirus has mutated as it has spread around the world

By combining information about the virus's DNA with epidemiology, UC Davis researchers hope to understand when the virus is more likely to cause a rapid outbreak -DJ Darwin R Bandoy, C Weimer MedRxiv doi: https://doi.org/10.1101/2020.03.17.20037481



Professors Nicole Baumgarth and Colin Reardon received a prestigious grant from the Chan Zuckerberg Initiative to further basic research on the role of inflammation

focuses on novel processes that regulate the immune system in the lung





Efficacy and safety of the nucleoside analog GS-441524 for treatment of cats with naturally occurring feline infectious peritonitis Niels C Pedersen, et. al. J. Feline Med. Surg. February 13, 2019







COVID-19 Update: Hospital Operations

CDAVIS ERINARY <u>MEDICINE</u>

Due to developing circumstances surrounding the COVID 49 pandemic, including adhering to physical distancing and imiting public gatherings, the UC Davis Veterinary Medical Teaching Hospital is currently altering its patient receiving process. Clients are now being asked to stay in the parking lot, where they will be greated by a hospital employee. Learn more about the patient receiving process in this video:



Harro > News > Deen Lahmero's weekly COVID 19 cedate - April 20, 2020

f in 💙 🖾 🖶

April 20, 2020

To the UC Davis Veterinary Medicine community:



As of 8am March 19, the VMTH will be OPEN FOR EMERGENCIES ONLY. Currently, this status is scheduled to stay in p until at least May 1. Based on the mandatory shelter in place order for Yolo County, the hospital's receiving will be restrito emergent medical conditions, follow up of current patients with urgent medical needs, and ongoing chemotherapeu and radiation therapy treatments. Veterinary facilities are considered essential during these times, and our aim is to reopen in order to provide patient care to animals with life-threatening medical conditions.

Research Continuity & Planning for COVID-19



Updated 4/2/20



Social Media and Continuing Education outreach and

engagement





ucdavisvetmed Do you have concerns about #COVID19 and how it relates to wildlife and our pets? Drs. Jane Sykes and Brian Bird are hosting an Instagram #AskMeAnything! Submit your questions to our stories between now and Wednesday, April 22 at noon, and tune in on Friday, April 22 at noon, for the answers! Due to time constraints, we may not be able to address all your questions, but we will try to answer as many as possible!

Dr. Jane Sykes is the chief veterinary medical officer at the UC Davis veterinary hospital and a founder of the International Society of Companion Animal Infectious Diseases.

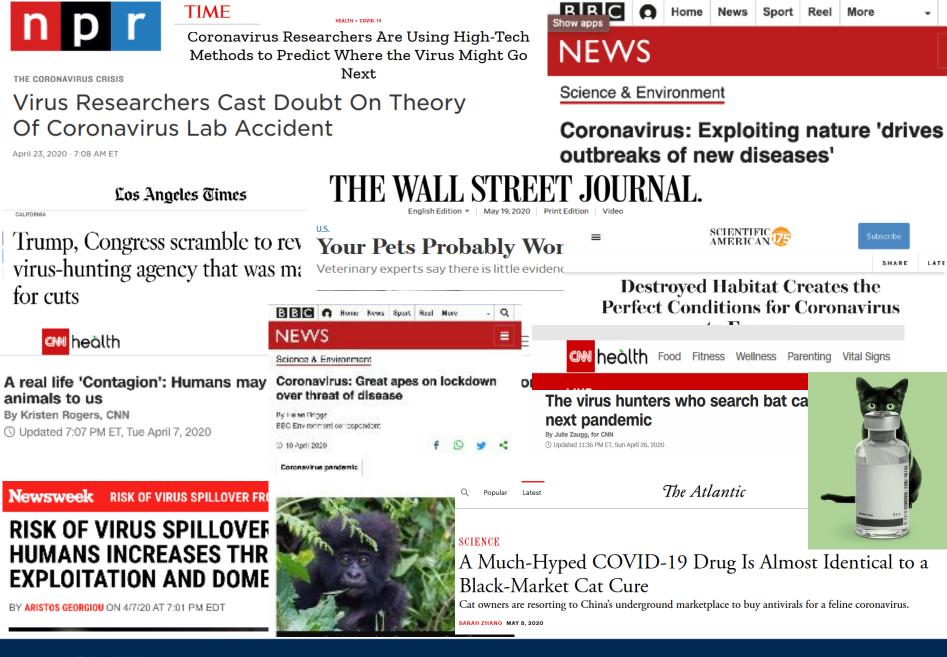
V Q V



Liked by lifeofavet and 567 others

23 HOURS AGO





VETERINARY MEDICINE

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





Goal -continued access to veterinary training while safeguarding student health and wellbeing

> -Revamped curriculum delivery for all firstthrough fourth-year veterinary students



CLASS OF 2020 COMMENCEMENT CELEBRATION



facebook

Forgot account?



UC Davis School of Veterinary Medicine @UCDavisVetMed



| | Demographics | f 2024 |
|----------------------|---------------------------------|-------------------------------------|
| | Average Age | |
| Applic: | 22 (age range 19-37) | |
| Residen | | ffer |
| <u> </u> | First Generation Students | |
| Californ Non-resi | 28 | |
| Internati | | |
| Total | Race/Ethnicity | |
| | White/Caucasian: 82 | |
| Class 1 | Asian: 31 | |
| Residen | Hispanic, Latino, or of Spanish | t s Admitted on tion: 125 |
| | Origin: 8 | ation: 125 |
| Californ | African American/Black: 1 | e application: 3 |
| Non-resi | Mixed Race/Multi-ethnic: 28 | |
| | | |
| 11011-105 | winded Race/ within-culline. 20 | |



UC Davis -Best Value in Veterinary Education

highest median starting salary of graduates of any of the 30 U.S. veterinary schools

 second for the most optimal debt-to-income ratio of all 30 schools

 third-least median debt of any of the 30 schools



Student Externships – Expanding Educational Opportunities and Career Directions





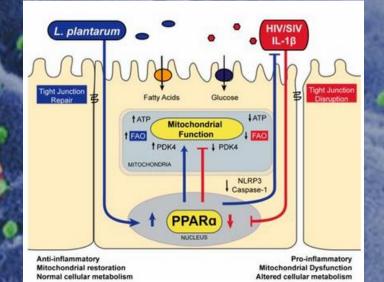
Global Education and Research Programs – extending our impact

IN A

13.50-

Training the Next Generation of Veterinary Scientists





Study provides insights into restoring gut mucosal immunity and function

Proceedings of National Academy of Sciences, 2019

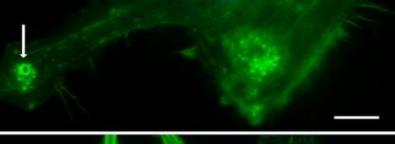


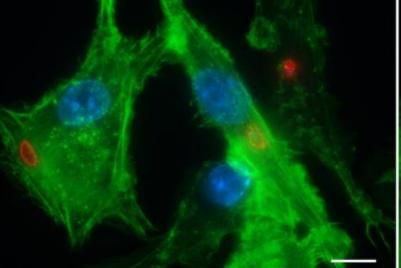
Training the Next Generation of Scientists - Leading in Graduate Education

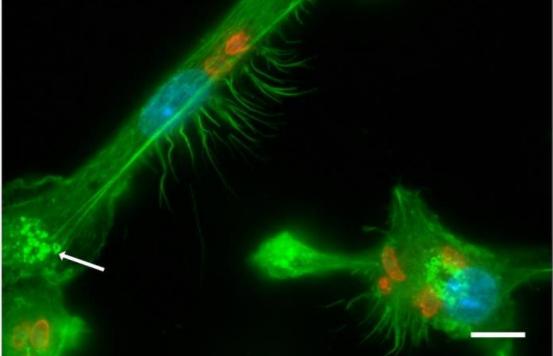
Fellowships and Awards
Publications and Research Presentations
Specialty Training Certificates



Key Toxoplasma Modulator of Dendritic Cells Identified. J. Saeij et al., <u>Cells and Microbes</u> (Oct 2019)



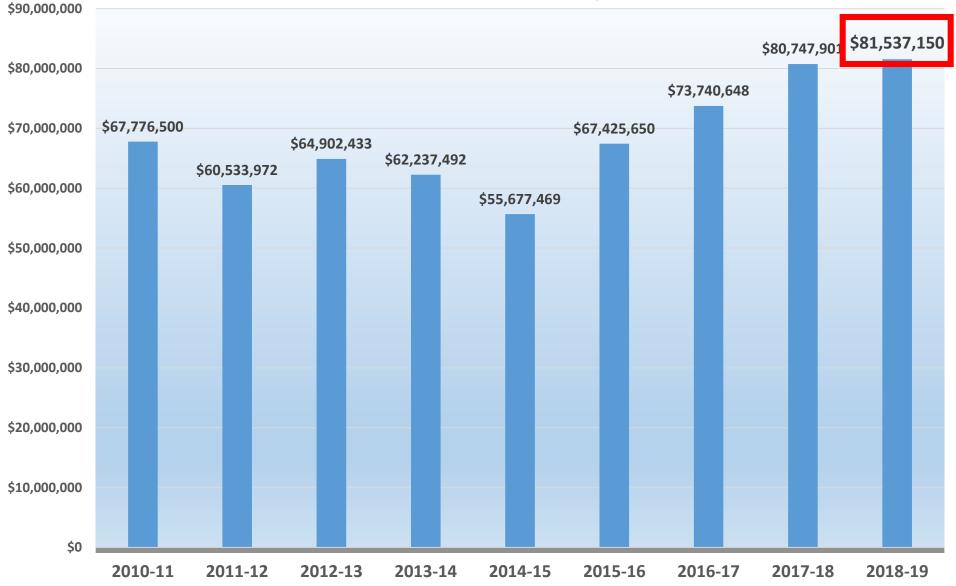




Goal 2.0 - Lead in Innovation and High-Impact Transdisciplinary Research to Advance the Health of Animals, People, and the Environment



Trends in Research Expenditures





Melting Arctic Sea Ice Linked to Emergence of Deadly Virus in Marine Mammals

"As sea ice continues its melting trend, the opportunities for this virus and other pathogens to cross between North Atlantic and North Pacific marine mammals may become more common,"

Scientific Reports Nov 2019



Study demonstrated first genetic link between the Toxoplasma strains in felid hosts and parasites causing fatal disease in marine wildlife

Proceedings of the Royal Society B. Shapiro et al., Aug 2019





Research Fui
Pioneer 10
Enhance sha
Outreach an

Horse Report

Medicine

The lutrition Issue

CENTER FOR EQUINE HEALTH REALTH REALT

Center for Equine Health



The Hoof Health Issue

New Grant to Study Drugs that Impair Bone Repair in Racehorses



Comparative Pathology Laboratory

SURVEILLANCE . DIAGNOSTICS . RESEARCH

Center for Comparative Pathology -Winner of the 2020 campus-wide Lab Safety Award

UC Davis Lab Safety Awards





- Performed ~ 220K genetic test across 24 species
- Completed 69 animal forensic cases
- Expanded portfolio of tests
- Genetic studies in horses
- Novel methods to monitor endangered lizards
- Excellence in Undergraduate Research





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



Excellence in Resident and House Officer Training



Dr. Maureen Griffin -2020 American Association of Veterinary Clinicians (AAVC) Resident Achievement Award





2019 Annual Report

Center for Companion Animal Health



Effects on Human Health?

Learning From Cats Injured in California Wildfires -Scientific Reports.

er-Lock Syringe / This Draw



Veterinarians Use Artificial Intelligence to Aid in the Diagnosis of Addison's Disease

Machine learning algorithm as a diagnostic tool for hypoadrenocorticism in dogs. Domestic Animal Endocrinology, Volume 72, July 2020, 106396



Veterinary Center for Clinical Trials Advancing high quality clinical research

About Us



Pet Owners & Referring Vets



Clinical Investigators



Sponsors





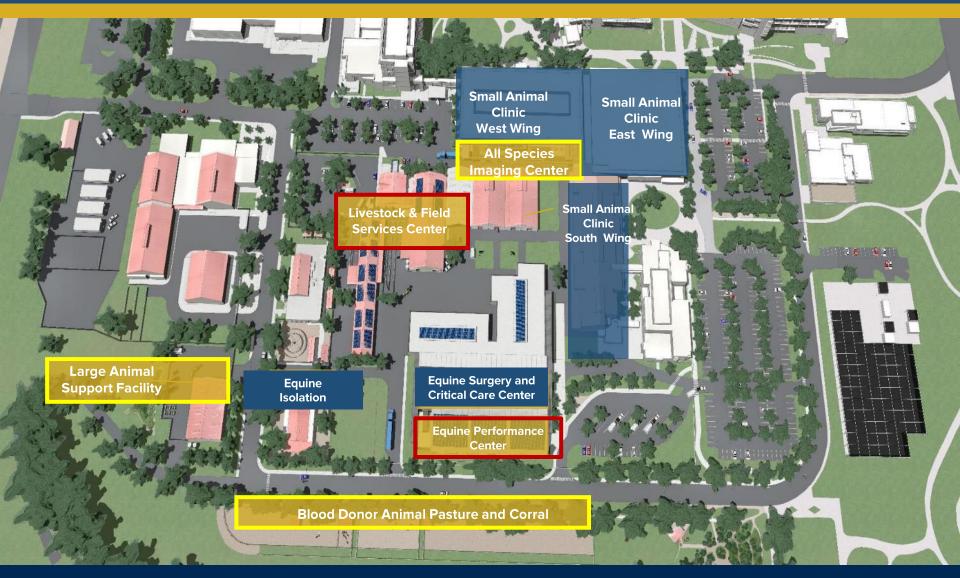
Transforming the Future of Veterinary Medicine







Veterinary Medical Center





USAID PREDICT Courtesy: Simon Townsley

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



Advocating for support for one health approaches to advance animal, human, and environmental health – March 5th, 2020 Washington D.C.



California Animal Health and Food Safety Laboratory

- Leading Diagnostics Nationally, Protecting California Locally







Dr. Asin



CTTGCCCGGCGTCAATACGGGATAA ATTEGAAAACGTTCTTCGGGGGGG TEGATGTAACCEACTEGTGEACCE TGGGTGAGCAAAAACAGGAAG







Microbial contamination of the US produce supply

- emerging & endemic pathogens, causal mechanisms driving multistate outbreaks, microbial fate & transport



Food Safety Risks from Wildlife

AEM

Epidemiology of wildlife foodborne pathogens



Preparing for Animal Pandemics – New USDA Grant Collaboration Across 3 Western States

SITORS

RITY MANAGEMENT PLAN IES TO THIS PLACE

ment area for the Biosecurity Management Plan that applies to this place

erson entering, present at, or leaving a management nply with the measures stated in the Biosecurity the area unless the person has a reasonable excuse.

visit our office before entering to obtain information about the an and your biosecurity obligations under the Biosecurity Act 2014.

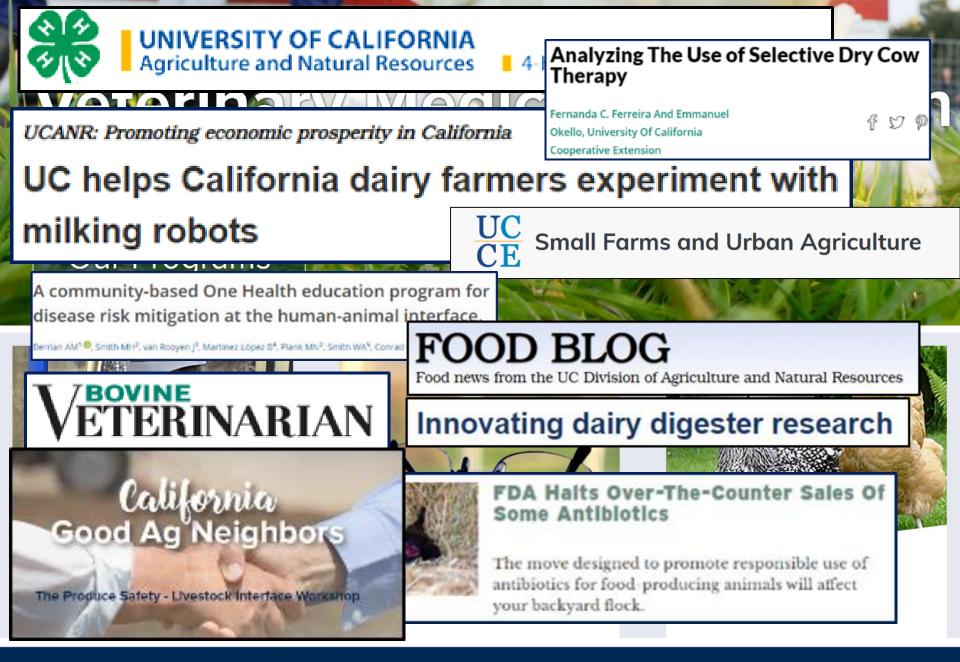
d equipment can carry diseases, weed seeds and pests

UHF channel:













UC Veterinary Medical Center - San Diego

Continued Leadership in Fellowship Training





Veterinary Medicine Teaching & Research Center Healthy Cows - Sustainable Herds - Confident Consumers



Academic Instruction



Research Activities



Outreach



Veterinary Emergency Response Team Medical Reserve Corps -California EMSA Award







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



Faculty Excellence - Recognized







edical College

ANTA

AAAS

HEPA

ADVANCING SCIENCE



Recognition of the 150th anniversary of the admission of women to the University of California

Jonna Mazet DVM, MPVM, PhD



Marguerite Pappaioanou, DVM, MPVM, PhD



Elizabeth Arnold Stone, DVM, MS, MPP, DACVS



Leadership Welcome



Bret McNabb Director Large Animal Clinic



Simone Stoute Branch Chief at CAHFS- Turlock



Patty Pesavento 2020-2021 Chair of the Faculty



Alison Zwingenberger Director of Diagnostic Imaging



Joanne Paul-Murphy Messmer Family Presidential Chair Companion Exotic Medicine and Surgery Service



Leadership Reappointments



Danika Bannasch Associate Director,Genetics Program Center of Companion Animal Health



Robert Rebhun Associate Director, Cancer Programs Center for Companion Animal Health



Edward Schelegle

Chair Anatomy, Physiology and Cell Biology



Gary Magdesian Endowed Chair Henry Chair in Emergency Medicine and Critical Care



Leadership Thank You



Rob Atwill Director of Western Institute of Food Safety and Security



Jenna Burton Director, Veterinary Center for Clinical Trials



Denis Marcellin-Little 2019-2020 Chair of the Faculty



Dori Borjesson Chair of Pathology, Microbiology & Immunology

Kate Hopper Interim Chief Medical Officer VMTH

Jonna Mazet Executive Director One Health Institute



New Faculty – Renewal of Talent, Innovation, and Skills





Selected Staff Awards and Recognition

Jason Peters – 2019 Rachel Smith Employee of the Year Award

Heather McEligot- 2019 PMI Staff Award

Catherine (Sass) Miller – 2019 Large Animal Staff Award

Sheri Pendergraft – 2019 Small Animal Staff Award

Joe Pacini – 2019 Client Service Administrative Staff Award



The Importance of Cultural Awareness for Veterinarians in Today's Global World



Showing gratitude for our essential worker ng the #COVID19 pa

14

humans 1



ucdavisvetmed · Following UC Davis School of Veterinary Medicine



ucdavisvetmed We are so grateful for everyone who is keeping our essential services running-including our custodians, veterinary technicians, clinicians, and so many others. Join us in celebrating our #HealthcareHeroes and essential staff who are on the frontlines, interacting directly with clients and each other. Tag us in your photos!

#ThankfulThursday

6d



 $\mathbf{\Sigma}$

hey_itsleila 💙 💙



5d 2 likes Reply

Liked by mattbengel and 1,708 others

6 DAYS AGO



Donors Making an Impact on our Mission and Society



-

Spring 2020



A New Era of One Health



8 / Syncrey / UC Davis Veterinary Medicine



Alumni Achievement Awards



Noel Dybdal, DVM, PhD



Ken Gorczyca, DVM

Alumni Rising Star Award



Sheila Laverty, MVB



Katrin Hinrichs, DVM, PhD



Brian Bird, DVM, PhD, MPH



Faculty Retirees



Fredric Gorin



Steven Hollingsworth



Pam Hullinger



Mary Lassaline



Ray Wack



Kimber L. Stanhope



Erik Wisner



Mary Beth Whitcomb



Reen Wu







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

In Memoriam





A Decade of Leadership





Leading veterinary medicine, addressing societal needs