



# Strategic Plan: Progress Actions

## July - September 2020

The School of Veterinary Medicine Strategic Plan was developed to evolve and refine the direction of the school to meet its stated mission, vision and goals. The plan supports the university's Strategic Plan, To Boldly Go, and the Principles of Community, which articulate the values and principles by which the UC Davis School of Veterinary Medicine conducts its mission. The school's plan can be found at <https://www.vetmed.ucdavis.edu/strategic-plan>.

This report summarizes the progress actions across the school from July through September 2020.

### **GOAL 1: EDUCATE WORLD LEADERS**

#### **Strategy 1.1. Promote Faculty and Staff Engagement in Career Development Programs and Best Practices for Educators**

##### *Pathology, Microbiology and Immunology:*

The first fellow for the CPL/CNPRC Lab animal fellowship started in July: Kelly Ramsay from WSU. Drs. Denise Imai-Leonard and Katie Olstad (both PMI HSCP-WOS) are coordinators of the fellowship. This is the ONLY fellowship shared between a University-affiliated comparative pathology core and a primate center in the world.

##### *Veterinary Molecular Biosciences (VMB):*

Dr. Wilson Rumbelha awarded NIH funding for an R25 Innovative Program to Enhance Research Training (IPERT). The goal is to expose underrepresented undergraduate students to the field of toxicology as a career path.

##### *Executive Committee (EC):*

#### **Faculty Vote to Consider Situational Judgement Test Interview System for Admissions**

The EC oversaw the faculty's consideration for an alternate admissions process, proposed by the Admissions Committee, since in-person Multi Mini Interviews (MMIs) will not be possible due to COVID-19 restrictions. Following the Town Hall Meeting on July 29 to discuss the SJT system, and a formal comment period, pro and con statements were developed and the vote was conducted. The faculty approved the temporary use of this system, and it will be implemented in Fall 2020 to select the Class of 2025.

## Strategy 1.2 Promote Dynamic, Up-to-Date Curriculum and Training Programs to Foster Educational Goals and Career Opportunities

### DVM Virtual Career Fair



#### *Professional Education:*

- Held DVM Virtual Career Fair – Small Animal Focused
- Began Networking @ Noon events to provide career exposure and engage students with faculty and area DVMs
- CLaW Tues/Thurs Open Office hours via Zoom

#### *Career, Leadership and Wellness Center (CLaW):*

- Adapted the AVMA Suicide Toolkit for UCD SVM
- Hosted Wellness Panel discussion during Prologue/Orientation
- Purchased online gaming subscriptions for each class to increase sense of community and boost morale

## Strategy 1.3. Establish and Maintain Programs and Strategies that Promote a Diversified Professional Community

#### *Veterinary Molecular Biosciences (VMB):*

Dr. Cecilia Giulivi named Chair of Diversity, Equity and Inclusion for the Integrated Genetics Program

## Strategy 1.4. Implement Multiple Strategies to Reduce Educational Debt for Professional Degree and Graduate Students

#### *Student Initiatives:*

Financial Literacy: Purchased Drip.vet course access to continue to foster the financial acumen of DVM students



#### *Office of Advancement:*

Virtual Evening of Gratitude: The Office of Advancement coordinated our annual Evening of Gratitude that was held virtually on October 8, 2020 to celebrate our scholarship and fellowship donors and scholars.

## GOAL 2: LEAD IN INNOVATION AND HIGH IMPACT TRANSDISCIPLINARY RESEARCH TO ADVANCE THE HEALTH OF ANIMALS, PEOPLE, AND THE ENVIRONMENT

### RESEARCH AWARD TOTALS

223 actions for 106 faculty (broken down below). Of these actions, 81 were new awards; the remainder were non-competing renewals, no-cost extensions and amendments.

	Actions	Faculty	New Awards
July	84	38	25
August	54	30	19
September	85	38	37
	<b>223</b>	<b>106</b>	<b>81</b>

There was 1 project over \$1M:

Christine K. Johnson	NIAID	EpiCenter for Emerging Infectious Disease Intelligence	\$1,677,787
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### Center for Immunology and Infectious Diseases (CIID):

- Chris Miller received a six-month award for \$71,674.00 from American Association of Tissue Banks for Investigating the Presence of Virus in Tissues from Donors Testing Positive for SARS-CoV-2 (COVID-19)
- Smita Iyer received 3-year award for \$780,502.00 from NIH National Institute on Aging (NIA) for Immune Mechanisms Underlying Age-Related Neurodegeneration in HIV Infection.

### Vet Med Extension: 2 new grants:

- PI: Mapping Web App: A Critical & Novel Tool for Avian Influenza Surveillance to Improve Food Security in Commercial Poultry: \$1M over 4 years.
- Co-PI (with Iowa St and and University of Kentucky): Integrating vegetable, poultry, and cover cropping practices to develop resilient organic production systems: 4 years ~300K

## GOAL 2: LEAD IN INNOVATION

### Strategy 2.1. Promote Innovative Multi-Disciplinary Collaborations to Address Societal Needs

#### *Center for Equine Health (CEH)*

CEH researcher Dr. Carrie Finno and her graduate student Dr. Callum Donnelly, in collaboration with researchers at University College Dublin and partner Zoetis, were awarded a UCD Squared grant to study the role of helminths in the gastrointestinal tract of horses with equine metabolic syndrome. This study will use horses from the precision medicine Pioneer 100 horse project at CEH.

*Executive Committee (EC):*

**Software Review and Administrative Access Issues**

The EC discussed the problems reported by faculty associated with campus IT software review which currently often involves extensive approval delays, along with the need for administrative access on computers originally set up by SVM-IT. An internal SVM review system has been developed for more quickly evaluating software with low-level security vulnerabilities, and assistance is available to faculty for getting access and connecting remotely. The EC recommended this information from SVM-IT be widely disseminated to faculty, particularly through the departments.



*Christine Kreuder Johnson is the director of the new CREID Network*

**One Health Institute:  
EpiCenter for Disease Dynamics**

The EpiCenter for Disease Dynamics was awarded the creation a new research center, the EpiCenter for Emerging Infectious Disease Intelligence (EEIDI), as part of the [Centers for Research in Emerging Infectious Diseases \(CREID\) Network](#) funded by the National Institute of Allergy and Infectious Diseases (NIAID) at the National Institutes of Health (NIH).

New paper ranking very high in attention scores, in the 99th percentile among outputs of the same age, and as the [highest-scoring outputs from the journal RSPB \(#1 of 8,278\): Global shifts in mammalian population trends reveal key predictors of virus spillover risk.](#)

*One Health Laboratory:*

Two new grants, one each with NOAA and USFWS

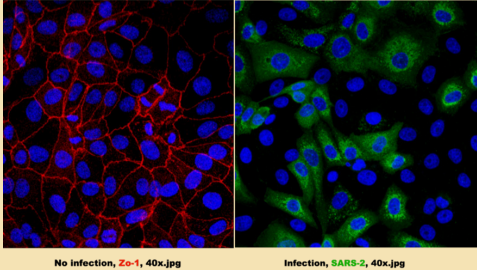


*Pictured here is Dexter Zankel, the first patient who received activated stem cell therapy under compassionate use last year and who inspired this grant to move forward.*

**Veterinary Institute for Regenerative Cures (VIRC):**

VIRC member Dr. Barbro Filliquist and her orthopedic team as well as VIRC Director Dr. Boaz Arzi were awarded a CCAH grant to investigate the novel use of activated mesenchymal stem cells as a potential therapy for resistant bacterial bone infections. This grant will be used for a clinical trial and is now enrolling.

Validation of Abs using Vero-E6 cells infected with SARS-CoV-2



**Pathology, Microbiology and Immunology (PMI):**

Koen Von Rampay, Lark Coffey, P. Pesavento:  
COVID , CHIKV, ZIKV research in animal models,  
COVID grant (CRAFT award)

**Surgical and Radiological Sciences:**

- Dr. XinBin Chen and Dr. Michael Kent received a T32 training grant in comparative oncology
- Orthopedic surgery section, collaboration with Palo Alto Veteran Institute for Research, leading to a 5-year, NIH funded clinical trial
- Katherine Skorupski, principal investigator on RO1 grant “Targeting STAT3 to enhance anti-tumor immunity”
- Boaz Arzi, publication of a multicenter study on the use of stem cells to treat chronic feline gingivostomatitis and FDA approval of a nationwide clinical trial for the company that licensed the procedure
- Sarah le Jeune, appointed member of a National Academies of Sciences, Engineering and Medicine committee reviewing the methods to detect soreness in horses
- Allison Zwingenberger, recipient of a CeDAR grant to explore the use of artificial intelligence in veterinary medicine
- Brian Leonard, provisional patent on use of small molecules to increase antimicrobial peptide expression.
- Sara Thomasy, recipient of a \$6 million dollar award from the NIH with Ala Moshiri MD (Medical School) to study spontaneous achromatopsia in primates at the CNPRC
- Frank Veratraete and Boaz Arzi, publication of the second edition of Oral and Maxillofacial Surgery in Dogs and Cats
- Jennifer Wilcox, top download for 2019 in the journal Veterinary and Comparative Oncology “Clinical features and outcome of dermal squamous cell carcinoma in 193 dogs (1987-2017)”
- Chris Murphy, Director of large animal core of National Eye Institute core grant supporting vision science research across campus units

**VetMed Extension (Pitesky):**


2 new grants: (Goal 2)

- PI: Mapping Web App: A Critical & Novel Tool for Avian Influenza Surveillance to Improve Food Security in Commercial Poultry: \$1M over 4 years.
- Co-PI (with Iowa St and University of Kentucky): Integrating vegetable, poultry, and cover cropping practices to develop resilient organic production systems: 4 years ~300K

## 2 Highlighted pubs: (4.5)

[A comparison of amplification methods to detect Avian Influenza viruses in California wetlands targeted via remote sensing of waterfowl](#)

[Overview of Quantitative Methodologies to Understand Antimicrobial Resistance via Minimum Inhibitory Concentration](#)



**Communications:**  
Sent the summer edition of the recently revamped Heartbeat newsletter to hospital referring veterinarians.

## **Strategy 2.2. Enhance Research Training and Experiential Opportunities for Clinician-Scientists, Residents, Veterinary Students, and Graduate Students**

### ***Center for Companion Animal Health (CAAH):***

CAAH provided \$9,998 in funding to support two resident research projects.

The remainder of the 2020-2021 CCAH call for Resident research proposals announced.

Deadlines for proposals:

- February 10, 2020
- May 11, 2020

### ***VMTH:***

Residents Win National Internal Medicine Awards

<https://www.vetmed.ucdavis.edu/news/residents-win-national-internal-medicine-awards>

### ***Office of Advancement:***

The Office of Advancement coordinated with the Wildlife Health Center to close a \$175,000 pledge with Dr. David A. Jessup to establish the David A. Jessup Free Ranging Wildlife Residency Program Fund, which will support the center's existing free ranging wildlife residency program.

**Veterinary Genetics Lab (VGL):**

- Yael Hack June 2020 UC Davis Chancellor's Award for Excellence in Undergraduate Research



*Ainhoa Valldecabres*

**Veterinary Medicine Teaching and Research Center (VMTRC):**

PhD Student Ainhoa Valldecabres Wins Research Award at 2020 American Association of Bovine Practitioners (AABP) Conference: Congratulations to Dr. Valldecabres, who was recently awarded third place for her research presentation at the (AABP) Annual Conference, Associations of Serum Calcium and Subclinical Hypocalcemia at Calving with Productive, Reproductive and Health Outcomes in multiparous Jersey Cows. Her advisor is Dr. Noelia Silva-del-Rio, UC Davis Veterinary Medicine Dairy Extension Specialist.



**UC Davis Students Training in Advanced Research (STAR) Program**

The Veterinary Medicine Teaching and Research Center (VMTRC) has continued to train veterinary students in dairy cattle health and production. Between July – August 2020, the antimicrobial stewardship program at the VMTRC hosted Anett Szczepanek (DVM Candidate, Class 2023) for her summer STAR internship. Anett's internship training focused on quantifying antimicrobial drug usage in pre-weaned dairy calves and surveillance

for antimicrobial resistance on dairies. She was ultimately able to quantify the total amount of antimicrobials used on calf facilities and hence determine the correlation between dairy management practices and the occurrence of antimicrobial drug treatment. In addition, she determined antimicrobial resistance of common bacterial pathogens isolated from milk samples from various herds. This information is critical in understanding the relationship between drug usage and management while providing information for future antimicrobial stewardship efforts. Anet will disseminate her research output at the Conference of Research Workers in Animal Disease (CRWAD) in December 2020.

## Strategy 2.3. Enhance Shared Resources that Support Clinical, Basic, and Translational Science

### *Center for Companion Animal Health (CCAH):*

CCAH provided faculty with the following research, equipment and publication support:

- Twenty two faculty research grants funded - \$487,945
- Four faculty research equipment grants funded - \$77,000
- Two faculty match research grants funded - \$12,500
- One donor directed faculty grant funded - \$164,500
- Nine faculty publication costs funded - \$11,625

To improve the health and well-being of companion animals through academic studies and clinical research the CCAH approved 34 faculty grants from its annual call. \$485,186 was awarded to support research in the areas of SARS-CoV2, Anesthesia, Cancer, Orthopedic Surgery, Ophthalmology, Neurology, Nutrition, Renal, Surgery, Infectious Disease and Wound Pain Management.

The CCAH had ten research studies result in publications:

- Evaluation of accuracy for 18F-FDG positron emission tomography and computed tomography for detection of lymph node metastasis in canine oral malignant melanoma (Veterinary and Comparative Oncology)
- Evaluation of transanal minimally invasive surgery for submucosal rectal resection in cadaveric canine specimens (Veterinary Surgery)
- The interaction between RUNX2 and core binding factor beta as a potential therapeutic target in canine steosarcoma (Veterinary and Comparative Oncology)
- Assisting Decision-Making on Age of Neutering for 35 Breeds of Dogs: Associated Joint Disorders, Cancers, and Urinary Incontinence (frontiers in Veterinary Science)
- Assisting Decision-Making on Age of Neutering for Mixed Breed Dogs of Five Weight Categories: Associated Joint Disorders and Cancers (frontiers in Veterinary Science)
- A Missense Variant in ALDH5A1 Associated with Canine Succinic Semialdehyde Dehydrogenase Deficiency (SSADHD) in the Saluki Dog (Genes)
- Multiple FGF4 Retrocopies Recently Derived within Canids (Genes)
- Reference intervals for radiographic, echocardiographic and N-terminal pro B-type natriuretic peptide values in healthy kittens (Journal of Feline Medicine and Surgery)
- Development of canine PD-1/PD-L1 specific monoclonal antibodies and amplification of canine T cell function (PLOS ONE)
- Intramuscular Diphenhydramine Does Not Affect Acute Doxorubicin Infusion-Related Arrhythmia Number or Severity in a Prospective Crossover Study in Canine Lymphoma: A Pilot Study (frontiers in Veterinary Science)

### *Veterinary Center for Clinical Trials (VCCT):*

VCCT created a Study Operations Manual template for Study Teams to use during the design and development phase of their research studies. The purpose of this document is to improve the rigor and accuracy of research studies conducted at UC Davis Veterinary Medicine. In combination



with the release of the Study Operations Manual Template, VCCT has increased consultations and communications with Study Teams to provide logistical, operational, and best practice guidance. The Study Operations Manual template can be found here: <https://clinicaltrials.vetmed.ucdavis.edu/investigators/forms-templates>.

## Strategy 2.4. Promote Impact of School's Research to Enhance Recognition and Influence Policy and Stakeholder Engagement

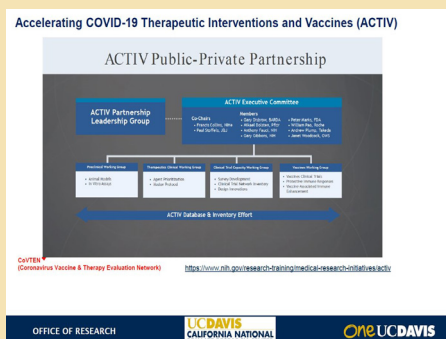
### **VMTH:**

Equine PET Scanner Making Big Strides at Santa Anita Park

<https://www.vetmed.ucdavis.edu/news/equine-pet-scanner-making-big-strides-santa-anita-park>

### **Center for Companion Animal Health (CAAH):**

The CCAH Update Fall 2020 newsletter was written and published in collaboration with the SVM Communications team. The newsletter features a decades-long effort to find a cure for feline infectious peritonitis, the pandemic's impact on research and shelter medicine, and how new equipment will help analyze dogs and cats with gait abnormalities.



### **California National Primate Research Center (CNPRC):**

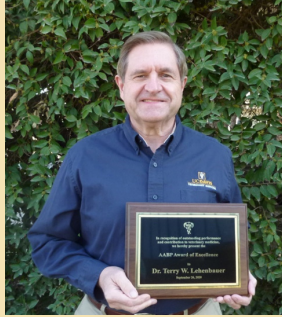
The CNPRC is one of seven NIH-supported primate centers leading a national effort to develop therapies and vaccines using nonhuman primate models of SARS-CoV-2 virus infection. CNPRC Associate Director of Primate Medicine Jeff Roberts (VM:Medicine & Epidemiology, Smita Iyer, PhD (VM:Pathology, Microbiology, & Immunology) and Koen Van Rompay DVM PhD (CNPRC) are members

of an NIH task force CoVTEN (Coronavirus Vaccine & Therapy Evaluation Network) that provides guidance on nonhuman primate studies COVID-19 research. CoVTEN plays a critical role in directing preclinical trials for ACTIV (Accelerating COVID-19 Therapeutic Interventions and Vaccines), a public-private partnership between NIH, BARDA, CDC, FDA, DHHS and industry that charged with fast-tracking COVID-19 treatments.

<https://www.nih.gov/research-training/medical-research-initiatives/activ>

### **Veterinary Genetics Lab (VGL):**

- VGL-launches additional news stories about research and test launches
- VGL-launches Instagram page to highlight VGL research and testing



### **Veterinary Medicine Teaching and Research Center (VMTRC):**

Dr. Terry Lehenbauer received the 2020 American Association of Bovine Practitioners (AABP) Award of Excellence. Presented at the 53rd AABP Annual Conference September 26, 2020.

## **GOAL 3: PROVIDE CUTTING-EDGE CLINICAL PROGRAMS**

### **Strategy 3.1. Enhance the Veterinary Medical Center (VMC) Services to Promote an Unmatched, Compassionate Patient Care and Client Experience**

#### **UC Veterinary Medical Center – San Diego (UCVMC-SD):**

Maintaining our commitment to being a world-class veterinary center and providing cutting-edge clinical programs, the UCVMC-SD is one of the first veterinary recipients of a new, state-of-the-art Prismax hemodialysis machine in July, 2020. Although we currently have other dialysis machines, the Prismax delivers slower treatments and is often used in pediatrics or our “tiny” patients. In addition to treating kidneys disease, the Prismax will also allow us to more easily treat many types of toxicities as well as many immune diseases as it provides the means to perform therapeutic plasma exchange.



Following is a recent example of how the Prismax benefited one of our first patients:



*Photos from our most recent patient being treated with our new Prismax.*

Huck is a 4yo MC Poodle that presented for Immune mediated anemia, a disease where the dog’s immune system is producing antibodies against its own red blood cells, leading to life threatening anemia. Huck was not responding to conventional treatment and had already received several blood transfusions. Thanks to the Prismax platform we were able to perform a procedure called Therapeutic plasma

exchange (TPE), where, using a plasma filter, we separate the dog’s plasma from the blood cells (last picture).The diseased plasma is then discarded (picture of plasma in waste bag) and replaced with donor plasma. After 4 treatments, Huck did not need any further transfusion and his anemia has resolved.



### **Strategy 3.2. Support Veterinary Medical Center (VMC) Programs that Promote a Culture of Collaboration, Excellent Educational Experiences, and Innovative and Effective Clinical Care**

#### ***VMTH:***

Residents Win National Internal Medicine Awards

<https://www.vetmed.ucdavis.edu/news/residents-win-national-internal-medicine-awards>

#### ***VMTH:***

Kitten's Collaborative Care Exemplifies UC Davis' Campuswide Animal-Centered Spirit

<https://www.vetmed.ucdavis.edu/news/kittens-collaborative-care-exemplifies-uc-davis-campuswide-animal-centered-spirit>

#### ***Surgical and Radiological Sciences:***

- Denis Marcellin-Little, elected Chair of the Faculty

### **Strategy 3.3. Advance Veterinary Medical Center (VMC) Facility Plan, Operations and Infrastructure**

#### ***Administration:***

- The VMDO and VMTH administration participated in the issuance of the All Species Imaging Center's equipment Request for Proposal; and launched planning for the VMTH Satellite Specialty Services Center in the old Scrubs building.

#### ***VMTH:***

ER and Critical Care Function with High Level Despite Massive Caseload Growth

<https://www.vetmed.ucdavis.edu/news/er-and-critical-care-function-high-level-despite-massive-caseload-growth>

### **Strategy 3.4. Promote Expertise, Program Breadth and Innovation for Reputation and Philanthropic Success**

#### ***VMTH:***

Equine PET Scanner Making Big Strides at Santa Anita Park

<https://www.vetmed.ucdavis.edu/news/equine-pet-scanner-making-big-strides-santa-anita-park>

#### ***VMTH:***

Third Opinion on Cancer Diagnosis Offers Life Saving Options

<https://www.vetmed.ucdavis.edu/news/third-opinion-cancer-diagnosis-offers-life-saving-options>

#### ***VMTH:***

Swift Care Saves Newborn Calves from Deadly Infections

<https://www.vetmed.ucdavis.edu/news/swift-care-saves-newborn-calves-deadly-infections>

**VMTH:**

Dog Still Beating the Odds One Year after Terminal Cancer Diagnosis

<https://www.vetmed.ucdavis.edu/news/dog-still-beating-odds-one-year-after-terminal-cancer-diagnosis>

**VMTH:**

Philanthropic Partnership Aids in Cancer Care

<https://www.vetmed.ucdavis.edu/news/philanthropic-partnership-aids-cancer-care>

**VMTH:**

UC Davis Aids Long-Serving K-9 Officer

<https://www.vetmed.ucdavis.edu/news/uc-davis-aids-long-serving-k-9-officer>

**VMTH:**

Dog Continues to Lead Full Life After Leg Amputation Due to Cancer

<https://www.vetmed.ucdavis.edu/news/dog-continues-lead-full-life-after-leg-amputation-due-cancer>

## GOAL 4: ADVANCE THE WELL-BEING OF ANIMALS AND PEOPLE IN CALIFORNIA AND AROUND THE GLOBE

***Pathology, Microbiology and Immunology (PMI):***

In October 2020 Chris Weiss, Hongwei Liu, Kasen Riemersma, Erin Ball and Lark Coffey published a paper in *npj Vaccines* entitled Engineering a fidelity-variant live-attenuated vaccine for chikungunya virus. Chikungunya continues to cause febrile disease marked by arthralgia in millions of people each year in more than 100 countries with no currently approved vaccine.

<https://www.nature.com/articles/s41541-020-00241-z>

***Pathology, Microbiology and Immunology (PMI):***

**Chris Barker** provided a webinar series for California and U.S. vector control and public health agencies this past summer (May-Jul). The series of videos has been posted on the YouTube channel (<https://www.youtube.com/channel/UCctI2QiZKE32AtIaiAVzI-g>).

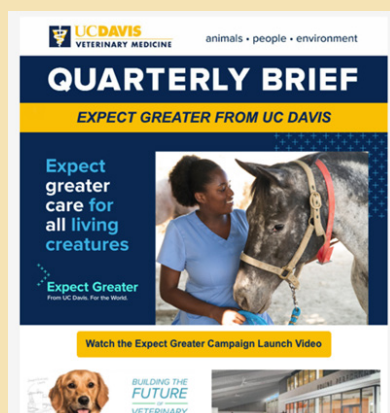
The VectorSurv team (Barker) hosted a 9-hour summer webinar series on the platform's online tools for data management and analysis for public health and vector control agencies nationwide. The VectorSurv system is hosted in SVM's Department of Pathology, Microbiology, & Immunology - and is a web-based platform for data exchange, visualization, and analysis that is the official repository for data on mosquitoes and arboviruses for a growing number of U.S. states, including California, Arizona, Utah, New Jersey, Tennessee, and several Pacific island territories (<https://maps.vectorsurv.org>).

The **Laurel Gershwin** group has recently completed a large (3 year) experiment (immunology and virology) that focuses on the health of people and animals. They tested antiviral and immunomodulatory therapy of Holstein calves infected with bovine respiratory syncytial virus. The information obtained is directly applicable to human infants infected with respiratory syncytial virus (an important disease for which no vaccine exists). This work was funded by a combined NIH/USDA program called Dual Purpose/ Dual Benefit, in which the researchers are charged with studying a disease of livestock that will yield data relevant to the disease in the veterinary species as well as in the human species.

## Strategy 4.1. Prioritize School Resources that Focus on Initiatives to Address Societal Needs

### *Administration:*

- The fiscal and administration office finalized the structure of the purchasing collaboration with the academic departments upon the recommendation of the SVM Budget Advisory Committee; facilitated the WIFSS move back to campus; worked with the Professional Education office and central campus staff to erect outdoor tents for DVM instruction for Fall Semester; concluded 2 years of service as the Academic Unit Shared Services Board Chairperson; and finalized the 2020-21 SVM School-wide budget in the AggieBudget system.
- The facilities and safety office provided guidance to successfully pass the following school-wide safety inspections: three Yolo County Certified Unified Program Agencies (CUPA) inspections in July, 2020; and three Fire and Life Safety inspections in September, 2020.



### **Office of Advancement:**

- The Office of Advancement closed a \$2,000,000 gift with an anonymous donor to establish the Dean's Organizational Endowment, which will support areas at the Dean's discretion.
- In collaboration with internal partners and through generous support of our donors, the school raised a total of \$3,824,963 in quarter one of 2020-21 fiscal year.
- The communications team supported the University's Campaign Launch and extended

its impact by featuring it in the new Synergy magazine, taking over the VetMed website feature, highlighting it in the Quarterly Brief email that goes to thousands of constituents, and in other ways.

### *UC Veterinary Medical Center – San Diego (UCVMC-SD):*

Our outreach and success in the San Diego region continues to grow and have an impact in our communities. During the 1st quarter of FY 2020/2021, we have treated over 1,100 patients and received 550 referrals from our veterinary community.

### *Executive Committee (EC):*

#### **Outreach and Public Scholarship**

Last year the EC highlighted needs associated with the school's outreach initiatives – in particular, a revamped webpage and rewards for faculty. The EC discussed recognition in the M&P system of faculty engaged in public scholarship activities with Drs. John Pascoe, Lisa Tell (CAP member), and Tessa Hill, Associate Vice Provost of Academic Programs in the Office of Public Scholarship and Engagement. The Provost's Work Group on Public Scholarship has now made recommendations in their final report

for related institutional policies and practices which the EC will be reviewing. In addition, the school's outreach and public service webpage has been revamped to highlight activities and opportunities in the school.

### ***One Health Institute (OHI):***

The OHI is fostering the start of the Wildlife Disaster Network, a group of veterinarians, wildlife biologists, ecologists, trained animal care volunteers, and rehabilitation centers which brings experts together to respond to injured wildlife and prevent suffering in times of crisis. Modeled after its Oiled Wildlife Care Network, the WDN will provide a vital service to disaster-affected wildlife.

### ***One Health Laboratory:***

- Support COVID-19 response: Global support of labs in 30 countries in Africa and Asia; Support CNPRC to develop SARS CoV-2 testing; Collaborative grant with Jonathan Eisen (funded by UC emergency fund) to perform environmental testing for SARS CoV-2 at UCDMC and UCD campus; Collaborative grant with Stefan Kellar (funded by CCAH) to develop serologic assay to test dogs and cats treated at the VMTH for exposure to SARS CoV-2.
- Supporting investigation and doing testing of ice seals and gray whales during two unusual mortality events off the west coast of the US, and trying to understand the role of infectious disease, climate change and other factors in these deaths.

### ***Veterinary Genetics Lab (VGL):***

Over this period, we launched 15 new genetic tests including two discovered at UC Davis, Congenital Stationary Night Blindness in Tennessee Walking Horses (discovered by Rebecca Bellone in collaboration with Drs. Brian Gilger and Crabtree at North Carolina State) and Equine Familial Isolated Hypoparathyroidism in Thoroughbreds (discovered by Carrie Finno and Gary Magdesian). Among the other tests include several breed specific health panels; A Golden Retriever Health Panel, Doberman Pinscher Health Panel, and Friesian Horse Health Panel all of which assist animal owners in breeding decisions.

### ***VMTH:***

Discover the Benefits of Pet Insurance

<https://www.vetmed.ucdavis.edu/news/discover-benefits-pet-insurance>

### ***VMTH:***

UC Davis Cares for 1,000 Animals from Wildfires

<https://www.vetmed.ucdavis.edu/news/uc-davis-cares-1000-animals-wildfires>

### ***Extension (Dr. Fernanda Ferreira):***

- In the beginning of the pandemic, sent a postcard to all dairy farms in California with her contact

information, including her personal phone number and e-mail. The objective was to offer her lab as a source of information.

- 4 national webinars that together have had more than 120 registered attendants.
- 3 international webinars (in Portuguese) with more than 500 attendants total
- Organized the Dairy Tech News, a newsletter that is being distributed among dairy farmers and other stakeholders. We have received massive feedback, with coops such as DFA and CDI distributing it among their members.
- Written 3 articles for the CA Dairy Magazine
- Launched an Instagram page ([@thedairyoffice](#)) who currently has more than 700 followers.



#### **Vet Med Extension (Pitesky):**

[2 new extension projects:](#)

Further development of Poultry YouTube channel. [Subscribe to the YouTube channel.](#)

First BY poultry app from academia/govt (available in the Google Play Store (look for “BY poultry Central”) or use the QR code.

### **Strategy 4.3. Enhance Local and Global Communications, and Engagement to Advance the School’s Impacts.**

#### ***Center for Equine Health (CEH):***

CEH posted a variety of resources on social media for horse owners, facility managers, and veterinarians pertaining to heat illness, how to manage horses under smoky conditions, the use of equine nebulizers, how air quality indices relate to horse health, and the impact of wildfire ash on pastures in response to recent high temperatures and wildfires.

#### ***Koret Shelter Medicine Program (KSMP):***

- Delivered a five-part, action-packed, tip to tail online kitten training series designed to help shelters remove obstacles brought on by COVID-19 and continue saving lives through “kitten season” during the pandemic. The free series featured over a dozen experts and was shared widely across the nation.
- Expanded our online training offerings to include three new modules to facilitate information and resource sharing for animal shelters that are redesigning their programs to meet the changing needs of their communities during COVID-19.
- Continued to lead the California Animal Shelters Covid Action Response (CASCAR), a group of approximately 100 shelters, through a weekly call where updates, resources, subject matter expert presentations, and idea sharing are facilitated.

***Veterinary Medicine Teaching and Research Center (VMTRC):***

Dr. Emmanuel Okello, Assistant Specialist in Cooperative Extension has recently been appointed a member of the National Academies of Sciences, Engineering and Medicine Committee on Examining the Long-Term Health and Economic Effects of Antimicrobial Resistance in the United States. The committee will examine progress made on the U.S. National Strategy and Action Plan for Combating Antibiotic-Resistant Bacteria, including domestic and international strategies employed by NIH, CDC, FDA, ASPR, USDA, and USAID.

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***VMTH:***

UC Davis Cares for 1,000 Animals from Wildfires

<https://www.vetmed.ucdavis.edu/news/uc-davis-cares-1000-animals-wildfires>

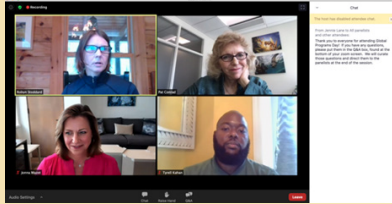


**Communications**

The Dean's Office communications team produced a new "Leading the Way" donor engagement piece to support the Veterinary Medical Center. The brochure contains information about the future center, renderings of the planned facilities, and high-quality photography to inspire the vision of our friends.



## Strategy 4.3 Increase Multicultural Awareness and Outreach to Underserved Populations and Communities



From top right, clockwise: Drs. Patricia Conrad, Tyrell Kahan, Jonna Mazet, and Robyn Stoddard

### The Office for Global Programs:

The Office for Global Programs held its 3rd annual Global Programs Day with a total attendance of over **200** students, staff, residents and faculty.

Students and faculty from UC Davis and around the world attended the virtual noon seminar on **“Pathways to Advance Veterinary Medicine and Address Societal Needs”**. In her introductory remarks, Vice Provost and Dean of Global Affairs Joanna Regulska highlighted the importance of the veterinary profession’s contributions

to the United Nations Sustainable Development Goals. Then a panel of experts, including Drs. Jonna Mazet, Tyrell Kahan, and Robyn Stoddard told the exciting stories of their professional veterinary experiences working to improve the health of wildlife, livestock, and underserved communities in the US and globally.

Dean Lairmore and Associate Dean Conrad welcomed attendees to the evening event, **“Students Around the World: Navigating COVID-19 Challenges”**. Fifteen veterinary students who received International Summer Externships, Global Fellowships and/or a Cheetah Conservation Fund Internships described their original project plans and the adjustments made as they navigated the COVID-19 challenges and international travel restrictions. Of the fifteen, five students who completed their projects remotely and/or within California gave presentations which included short videos that highlighted their summer experiences. The videos, which will be posted on the Global Programs Office website, illustrate the personal impact of these experiences to expand the students’ cultural awareness and vision for future career options.



### Communications:

In August, the dean’s office communications team launched an Instagram celebration of school alumna from diverse backgrounds. Gina Davis '97 was the first alumna featured, and she focused on mental health. Others have focused on public health, being a woman in veterinary medicine, the value of preparation programs and mentors, and other topics.

## Strategy 4.4. Promote and Support the One Health Approach to Advance the Mission



### Dean Lairmore

Dean Lairmore discussed the value of a One Health approach in his Deans Discuss podcast with Dean Allison Brashear from the School of Medicine.

## Strategy 4.5. Advance Strategic Communications and Use Information Technologies to Demonstrate Program Success and Impacts of Education, Research, and Outreach Programs

### *Administration:*


- SVM IT accomplished the following: deployed VMACS 5.3 in July which included increased ability to manage student information and message clients; released a new version of the Wildlife Recovery Application with more tools to collect wildlife field data during oil spills; prepared for and supported the new academic year with a new online student orientation, migrated students in OASIS, prepared for online exams, and deployed a new tool to migrate Zoom recordings to Mediasite; launched the new Agfa PAC (Picture Archiving and Communication) system; launched the new CHAPS horse management tool at CEH; closed 782 tickets in July, 905 tickets in August, and 812 tickets in September.

### *VMTH/Communications:*

#### **Major Media Hits**

- [Keeping Pets Safe During 4th of July](#)  
*Fox40*
- [Equine PET Scanner Making Big Strides at Santa Anita Park](#)  
*EquiManagement*
- [VetCell Therapeutics USA Gets Approved for Clinical Trial of DentaHeal Cell Therapy for FCGS](#)  
*Innovative Veterinary Care*
- [Anxiety, Aggression, & Why Dogs Eat Feces](#)  
*Canine Cancer Academy (podcast)*
- [How to Help Your Pet With Post-Quarantine Separation Anxiety](#)  
*New York Times*
- [Could Owl and Crocilian Tears Lead to a Cure for Your Dry Eyes?](#)  
*New York Times*
- [Horses, Alpaca Injured by California Wildfires Treated at UC Davis Veterinary Hospital](#)  
*Yahoo News*
- [COVID-19 and the Human-Animal Connection](#)  
*Veterinary Advantage*

- [Over 1,000 Animals Rescued from the Deadly Wildfires](#)  
*BBC*
- [How Innovators Are Addressing Large-Animal Vet Shortage](#)  
*Capital Press*
- [Can Your Pet Get COVID-19? Can It Give You Coronavirus?](#)  
*Sacramento Bee*
- [UC Davis Treats One of State's Most Decorated K-9 Officers](#)  
*Red Bluff Daily News*
- [UC Davis Vet Team Aids Animals Affected by California Wildfires](#)  
*ABC10*

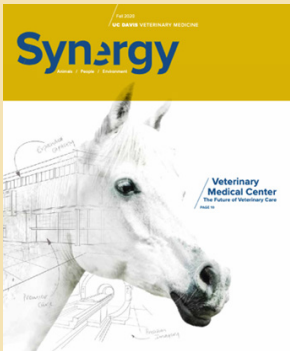


**Communications**

The Dean's Office communications group publicized efforts to assist fire victims, raising tens of thousands of dollars and reaching hundreds of thousands of people on multiple social platforms.

## GOAL 5: PROMOTE A VIBRANT AND DIVERSE COMMUNITY

### Strategy 5.1. Build Community through Value, Respect and Awareness for All



**Communications**

The Dean's Office communications team (with assistance from SVM-IT) mailed its second issue of Synergy magazine. The issue was timed to go out when the university launched the public phase of its comprehensive campaign and featured the future Veterinary Medical Center on the cover.

### Awards, Strategy 5.1

**VMTH:**

#### Veterinary Hospital Acknowledges Annual Staff Award Winners

<https://www.vetmed.ucdavis.edu/news/veterinary-hospital-acknowledges-annual-staff-award-winners>



**VMB:**

Pamela Lein, Graduate Program Advising and Mentoring Award,

<https://www.vetmed.ucdavis.edu/index.php/news/dr-pamela-lein-receives-graduate-program-advising-and-mentoring-award>



Jeffrey Stott (PMI) received the Graduate Program Advising and Mentoring award.

<https://www.vetmed.ucdavis.edu/news/dr-jeffrey-stott-recognized-contributions-graduate-student-advising-and-mentoring>



Dr. Kelly Knickelbein (Ophtho/VGL) received the 2020 James M. Wilson Award for the year’s most outstanding research report, “A missense mutation in damage-specific DNA binding protein 2 is a genetic risk factor for ocular squamous cell carcinoma in Belgian horses”, which was published in the Equine Veterinary Journal.

Knickelbein also received the September 2020 American College of Veterinary Ophthalmology Resident Manuscript Award “*A missense mutation in damage-specific DNA binding protein 2 is a genetic risk factor for ocular squamous cell carcinoma in Belgian horses*”.

**Pathology, Microbiology and Immunology (PMI):**

The BioMic Award for Excellence in Clinical Veterinary Microbiology was awarded to **Dr. Kris Clothier (CAHFS, Davis and PMI)** at the National AAVLD meeting (last month). The award recognizes a distinguished scientist for research accomplishments in the field of Diagnostic Microbiology that result in new scientific findings that have application for the betterment of veterinary medicine.

**Dr. Kevin Woolard (PMI)** received the UC Davis SVM Zoetis Distinguished Teacher Award. Kevin has been submitted as a candidate for the national AAVMC Distinguished Veterinary Teacher Award.

**Demitria Vasilatis (Demi)** has won the 2020 International Society of Animal Clinical Pathology’s J. Jerry Kaneko Prize for the Best Oral Presentation by a young investigator. This took place at the Intl Society for Animal Clinical Pathology. Demi is a resident in Clinical Pathology, and has recently started her PhD studies in the laboratory of XinBin Chen.

**Strategy 5.2. Clarify and Support Expectations for Career and Personal Development of Faculty, Staff, and Students**

**Wellbeing:**

- Adapted the AVMA Suicide Toolkit for UCD SVM
- Hosted Wellness Panel discussion during Prologue/Orientation
- Purchased online gaming subscriptions for each class to increase sense of community and boost morale

**Professional:**

- Held DVM Virtual Career Fair – Small Animal Focused
- Began Networking @ Noon events to provide career exposure and engage students with faculty and area DVMs

- CLaW Tues/Thurs Open Office hours via zoom

#### **Leadership:**

- Student Club President/Treasurer/Advisor organizational kick-off presentation
- SVM Club Grant funding for student clubs totalling \$12,500

#### **Scholarship:**

- Scholarship Applications opened
- Senior externship funding completed

#### **Outreach:**

- Completion of virtual SMASH (Summer Math & Science Honors) program for high school URM students interested in STEM fields (3 days in July)
  - a. SVM Mentors: Dr. Damian Genetos, Dr. Balsa and Dr. Erin Gibson, Dr. Woutrina Smith and Bridgette Smith
  - b. Participants feedback: 18% extremely satisfied, 60% somewhat satisfied
- Jandrey completed tenure on UC Health Task Force for Diversity and Inclusion in the Health Professions- submitted 85 page report to UC Regents for improvements and tactics to increase URM in all UC health professional schools (students, residents, and faculty).

#### **Admissions:**

- Successful Pick-up Parade for Class of 2024- most important connectivity event for Class since on campus
- White Coat Ceremony- successful inauguration in virtual format
- Launched several virtual Admissions info sessions
- VMCAS: 1585 total applications submitted with intent to apply to UC Davis (as of September 15 deadline)

#### **VMTH:**

##### **Veterinary Hospital Acknowledges Annual Staff Award Winners**

<https://www.vetmed.ucdavis.edu/news/veterinary-hospital-acknowledges-annual-staff-award-winners>

#### **VMTH:**

##### **Residents Win National Internal Medicine Awards**

<https://www.vetmed.ucdavis.edu/news/residents-win-national-internal-medicine-awards>

### ***Leadership and Faculty Development:***

Submitted nominations to central campus for three individuals to participate in the UC Women's Initiative for Professional Development.

### ***UC Veterinary Medical Center – San Diego (UCVMC-SD):***

With the recent addition of our new Clinical Fellow in Urinary Disease and Extracorporeal Therapies, Dr. Simona Buoncompagni, DVM, MS, Dipl. ACVIM (SAIM), the UCVMC-SD continues to advance in the leadership in fellowship training.

### ***Executive Committee (EC):***

#### **Approval of Leadership Incentive Funds**

The EC approved the use of Leadership Incentive Funds for 2020-21. These funds were made available in 2015 by the Dean's Office for faculty serving in high level leadership or service activities associated with an extraordinary time/effort commitment (for activities such as chairing the Curriculum Committee or UC system wide committees; service on CAP). Support may be in the form of research program assistance, teaching replacements, clinical reinforcements, etc.

#### **Suggested Guidelines for Dossier Review**

The EC identified the need for a resource document to assist faculty and department chairs with effective M&P packet preparation. They are working with the personnel office which is currently preparing the information.

#### **Peer Observation and Coaching of Teaching Committee**

The EC discussed concerns of the Peer Observation and Coaching of Teaching Committee to accommodate faculty requests for teaching observations after the campus started requiring peer observations for all faculty promotional actions (per policy APM UCD 220). A system is now being developed with the department chairs and SVM personnel office to better prioritize and manage all the requests and schedule a year in advance. The EC will continue to work with the committee to appoint more faculty observers if needed; additional training sessions will be scheduled by the committee.

#### **Faculty Mentoring**

The EC is continuing their discussions about faculty mentorship in the school; the need was determined last year for an expansion of resources easily available to faculty and for the development of best practices. Last year this topic was discussed with the department chairs, and the idea for a "homogenized" mentoring framework for the school was introduced. The EC continues to discuss the next steps for this initiative.

### ***Pathology, Microbiology and Immunology (PMI):***

Will Louie, a Ph.D. candidate in Lark Coffey's laboratory, is coordinating a seminar series focused on improving dialectics in vector-borne diseases, including the Designated Emphasis in Vector-borne

Diseases. The goal is to find ways to make the field more inclusive to BIPOC and underrepresented groups as well as empowering them. This also requires addressing the imperialistic roots in the field of mosquito-borne viruses.

***Executive Committee (EC):***

**Diversity, Equity and Inclusion (DEI) Education and Training**

The EC is engaged in discussions about how they can best represent all their colleagues in the school, ways to share information about the school's commitment to promoting DEI, and the related training opportunities and resources available. The EC's role can be through the committee appointments process, ensuring policy language and other types of official verbiage is balanced, and by continuing to watch for issues needing discussion. These DEI topics will remain on the EC's radar throughout the year.

**Strategy 5.3 Recognize the School's Sustainability and Success Depends upon our People Resources**

**Leadership Appointments, Strategy 5.3**



**Patricia Pesavento**, Chair of Pathology, Microbiology and Immunology, 7/1/20



**Mary Christopher**, Vice Chair of Pathology, Microbiology and Immunology, 7/1/20



**Michael Ziccardi**, Executive Director, One Health Institute, 7/1/20



**Michelle Giuffrida**, Director, Veterinary Center for Clinical Trials, 7/1/20



**Jennifer Willcox**, Associate Director, Veterinary Center for Clinical Trials, 7/1/20



**Joshua Stern**, Faculty Assistant to the Associate Dean of Professional Education, 9/1/20

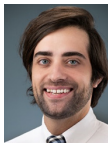
## ACADEMIC PERSONNEL NEW FACULTY APPOINTMENTS

### Strategy 5.4 New Faculty Appointments

#### New Faculty Appointments, Strategy 5.4



**Eric Johnson, DVM**, Associate Professor of Diagnostic Imaging, Surgical and Radiological Sciences, 7/1/20



**Sami Al-Nadaf, DVM**, Assistant Professor of Clinical Oncology, Surgical and Radiological Sciences, 8/1/20



**Katherine Farrell, DVM**, Assistant Professor of Clinical Small Animal Emergency and Critical Care, Surgical and Radiological Sciences, 8/1/20



**Krystle Reagan, PhD, DVM**, Assistant Professor of Small Animal Internal Medicine, Medicine and Epidemiology, 8/1/20

Dr. Reagan's research interests and expertise are in bacterial and fungal infectious diseases of small animals, and in the development and applications of artificial intelligence/machine learning algorithms to diagnosing small animal infectious diseases and endocrine disorders.



**Eileen Henderson, DVM**, Assistant Professor of Clinical Diagnostic Pathology, California Animal Health and Food Safety Laboratory / Pathology, Microbiology and Immunology, 8/17/20



**Ehren McLarty, DVM**, Assistant Professor of Clinical Diagnostic Imaging, Surgical and Radiological Sciences, 9/8/20