



Strategic Plan: Progress Actions

January - March 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 January through March, 2020.

GOAL 1: EDUCATE WORLD LEADERS

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

School / AVMA collaboration

Dr. Terry Lehenbauer, VMTRC Director, and veterinary students Hannah Skolnik (VM2021) and Sanskruti Potnis (VM2022) were among 60-plus veterinarians and students from California and across the country who visited Capitol Hill to advance issues important to veterinary medicine during the AVMA Legislative Fly-In on FEB 3-4, 2020. These participants met with staff and members of Congress and the Senate to gain support for the National Animal Health Laboratory Network, Advancing Emergency Preparedness through One Health Act (HR 3771/S 1903) and the Employer Participation in Repayment Act (HR 1043/S 460). The Employer Participation in Repayment Act would allow employers to contribute up to \$5,250 tax-free to their employees' student loans, providing veterinarians with student debt with much-needed relief and employers with a unique tool to attract and retain talented employees. Dr. Lehenbauer and Ms. Potnis met with Congressman Devin Nunes at the Capitol during the afternoon on February 4th to encourage his support for these legislative issues.

Faculty Executive Committee (EC)

Online Teaching Issues

The EC was updated about concerns discussed by the campus Executive Council regarding complex issues related to online teaching (copyright, privacy, enrollment, office hours). The university acknowledges that the content belongs to the faculty.

CLaW

- Continue to provide wellness, career, and leadership programs to promote the development of leaders in academic, private practice, public health, and other career paths offered from our educational programs.
- Continue to establish collaborative partnerships with industry, government, and other academic units to enhance our educational delivery and program development.

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

Faculty Executive Committee (EC):

The EC reviewed and approved plans developed by the Curriculum Committee to address a variety of COVID-19-related curriculum issues:

- Development of virtual didactic curriculum (for first, second and third year students), and clinical rotation experiences
- Faculty mentors will work with 4th year students to assess their remaining rotations scheduled, and develop individualized plans for them to complete their rotation requirements; completion of core rotations will be the priority
- Y2 Exam administration, review and study options, remediation, and practical exam
- SVM degree requirements for the 4th year Class of 2020; virtual rotations, clinical grading (AVMA Council on Education minimum requirements and competencies will be met)
- Post-exam content review for student learning
- Flexible grading options for professional students (e.g. optional pass/no pass grading).
- Platforms for content delivery

VSR:

- First retreat held in (approximately) 10 years and started developing a strategic plan for the department. The main areas identified for the effort are teaching (specifically improving faculty training in teaching), research (expanding clinical and non-clinical research) and faculty welfare.
- The obvious activities for a clinical department during COVID-19 - lots of online teaching materials being developed, including virtual clinical rotations.

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

Outreach and Admissions:

Administration:

- Attended AAVMC and engaged with other admissions professionals to share best practices

Class of 2024:

- Awarded incentive scholarships based on rubric and endowments
- Awaiting final acceptance deadline of April 15th

Early Veterinary Student Bovine Externship Program

- In February 2020, 13 first and second year DVM students were accepted into the 2020 Early Veterinary Student Bovine Externship Program (EVSBE). Generously sponsored by Zoetis and our Office of Admissions and Student Programs, this program will provide students with experiences in bovine and food animal veterinary practice by placing them on cattle production operations or with bovine veterinarians for 4 weeks during summer 2020. Students receive a \$2,000 award for participating in the program.

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

Career, Leadership and Wellness Center (CLaW):

SAC committee completed scoring and scholarship selection, Students notified first week of April

GOAL 2: LEAD IN INNOVATION

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

RESEARCH AWARD TOTALS

- The research totals for the quarter are:
 - » 176 actions for 102 faculty (broken down below). Of these actions, 77 were new awards; the remainder were non-competing renewals, no-cost extensions and amendments.

	Actions	Faculty	New Awards
January	53	30	18
February	59	33	30
March	64	39	29
TOTALS	176	102	77

There was one project over \$1M:

Greg Lanzaro	Open Philanthropy Project: "Stage One: Pathway to WHO Phase 2 Field Trials of a Population Modification Gem"	\$1.5M
--------------	--	--------

Office of Research / Faculty Executive Committee

The EC reviewed the OR Strategic Plan, and discussed the areas of most relevance to the SVM. In particular, it was agreed that there is a great need for interdisciplinary research space and a new multidisciplinary research building.

Veterinary Medicine Teaching and Research Center (Tulare)

Dr. Fernanda C. Ferreira was awarded research funding from the California Dairy Research Foundation (\$150,000) on the “Economic opportunities and risks associated with implementing automatic milking technologies in large dairies in California”. Research will investigate the main characteristics of successful dairies that have implemented automatic milking technologies, or milking robots, throughout the US, and discuss the main opportunities and risk factors when these technologies are applied in California dairies.

Center for Immunology & Infectious Diseases

Researchers at the Center for Immunology & Infectious Diseases, a joint research center sponsored by the School of Veterinary Medicine (SVM) and the School of Medicine (SOM), are working in high-level containment laboratories to grow SARS-CoV-2 to increase capacity in diagnostic testing and provide the virus for researchers at UC Davis and other institutions. This research would not have been possible if not for the existing strong relationships between the SOM and SVM. The following press releases pertain to the work performed at CIID:

March 27, 2020: Sacramento Bee Press Release: [UC Davis researchers rushing to develop new treatments to stop coronavirus spread](#)

March 26, 2020: Cal Matters Press Release: [Here's what happens to science when California's researchers shelter in place](#)

March 20, 2020: Davis Enterprise Press Release: [UCD researchers race to develop virus solutions](#)

March 19, 2020: KCRA Press Release: [UC Davis Medical Center unveils own coronavirus rapid testing](#)

March 19, 2020: UC Davis Press Release: [UC Davis Researchers Race to Develop Coronavirus Solutions](#)

There are two additional press releases from Nature and The Scientist, however, they were released after 4/1/20. They can be found at <https://ciid.ucdavis.edu/coronavirus-information-ciid>.

Revised scope of existing award to focus on COVID-19 studies: Chris Miller, 5R01AI118590-05: This award reflects approval of the change in specific aims to incorporate COVID-19 research into the aims as described in the request dated 03/26/2020, from Ahmad Hakim-Elahi / University of California at Davis. The goal of the revision is to develop a non-human primate model of COVID19 and use it to test interventions to limit disease progression of transmission.

CIID implemented an internal Seed Grant program which encourages faculty to collaborate on projects together that can lead to a Center wide or Program Project grant led by CIID faculty members.

CIID is launching a search for 2-3 new faculty members that will increase our integration with the School of Medicine.

Comparative Oncology Research Consortium (CORC) - Dean Lairmore is heading this up, Stephen J. McSorley, Director of CIID is participating along with others across campus.

New Award: Roger Sciammas, 1R21AI151610-01, “Heterogeneity of plasma cell states is regulated by the dynamics of IRF4 Expression” This proposal aims to elucidate the mechanisms whereby the dynamic of IRF4 expression controls PC outcome. Furthermore, we will employ a novel mouse model that reports on immunoglobulin and secretory rates to identify B cell stages undergoing changes in immunoglobulin usage.

PMI

Research Excellence: Dr. Jeroen Saeij in Jan-Feb. 2020 was awarded 4 NIH R21 grants (see titles/ dates below). Jeroen is especially excellent at supporting a diverse and highly functional team of post-doctoral researchers in his lab.

- a. NIH – R21 – Project Title: Synthetic lethality screens in a nutrient sensitized Toxoplasma strain to identify novel proteins that mediate nutrient acquisition in chronic Toxoplasma infection. Award dates 02/04/2020-1/31/2022.
- b. NIH – R21 – Project Title: Identification of the mechanism by which Toxoplasma activates the NLRP1 inflammasome. Award dates: 01/21/2020-12/31/2021
- c. NIH – R21 – Project Title: Identify Toxoplasma genes that determine in vivo fitness with CRISPR-Cas9 genetic screens. Award dates: 02/05/2020-01/31/2022
- d. NIH – R21 – Project Title: Genome-wide CRISPR/Cas9-mediated loss-of-function screens to identify Toxoplasma genes that determine fitness in gamma interferon-stimulated human cells. Award dates: 02/18/20-1/31/22

Dr. Kevin Woolard was a co-author on a high impact publication in Cancer Cell entitled: Comparative Molecular Life History of Spontaneous Canine and Human Gliomas (graphical abstract attached). This fits with the UCD SVM strategic initiative on naturally occurring large animal models of human disease (translational medicine).

Office for Global Programs

The Office for Global Programs coordinated the submission and review of a record number of 31 proposals from 1st and 2nd year professional and graduate students seeking to obtain funding for summer research and/or professional experience. There were 17 applications for International Externships, 11 for Global Fellowships and three (3) for Cheetah Conservation Fund Internships. The International Programs Committee awarded 11 International Externships and a separate faculty review committee awarded nine (9) Global Fellowships, four (4) focused on feline health and five (5) for work with underserved communities.

(Tom FYI- In the next quarterly report we will explain/highlight how we are addressing the unique COVID-19 situation so as to allow student awardees to have rewarding personal/professional globally relevant experiences while also reducing risk and adhering to campus and SVM guidelines)

Center for Food Animal Health

On February 20, 2020 the Center for Food Animal Health (CFAH) held its annual CFAH Stakeholder Workgroup Advisory Meeting which brought together CFAH faculty including those with Ag Experiment Station (AES) assignments, Veterinary Medicine Extension faculty, and individuals representing commodity groups and agencies including:

- o California Cattlemen's Association
- o California Department of Food and Agriculture
- o California Poultry Foundation
- o California Milk Advisory Board
- o Superior Farms
- o UC Cooperative Extension (UC ANR)
- o California Veterinary Medical Association

- o Western United Dairies
- o California Pork Producers
- o USDA APHIS Veterinary Services

Faculty presented brief updates on 2017-2018 and 2018-2019 CFAH funded research. The list of CFAH Priority Issues (2020-2021) were also revised and updated to reflect stakeholder needs and concerns (see: <https://cfah.vetmed.ucdavis.edu/resources/priority-issues>).

- Five research projects involving California's animal agricultural commodities were funded in Spring 2020 after the SVM received its final allocation of 2018-2019 Hatch, Multi-state, and Animal Health Funds from USDA.

PI and research team	Project Title	Commodity/Subject Area
Terry Lehenbauer, Emmanuel Okello, Sharif Aly, Betsy Karle	Mapping the nasopharyngeal microbiome in normal and bovine respiratory disease (BRD) infected calves	Antimicrobial Use & Resistance
Richard Pereira, Barbara Byrne, Alda Pires	Genetic elements causing antimicrobial resistance in Salmonella isolated from cattle at a veterinary microbiology laboratory in Northern California, 2002-2017: focus on drugs of critical importance to human and veterinary medicine	
Xunde Li, Yanhong Liu, Edward Rob Atwill, Peng Ji, Richard Van Pereira	Assessment of probiotics as alternatives to in-feed antibiotics on growth performance and disease resistance	
Noelia Silva del Rio, Lorena Passos	Postpartum calcium dynamics after incomplete milking, once-a-day milking, and no milking vs. twice-a-day milking	Dairy Cattle
Esteban Soto, Mark Fast	Efficacy of Glucans as immunostimulants to white sturgeon, <i>Acipenser transmontanus</i>	Aquaculture and Aquatic Animal Health

VCCT

- Veterinary Center for Clinical Trials initiated enrollment into two multicenter clinical trials. The first, led by Dr. Stan Marks and for which UCD is the lead institution, includes two other sites seeking to determine whether diet can help dogs with skin and bowel disease to stop itching, vomiting, and having diarrhea. The second is led by Dr. Carrie Palm and aims to evaluate a new treatment for anemia due to chronic kidney disease in cats.
- The VCCT was represented by Kate Hodges, Clinical Trials Coordinator Supervisor, in the first ever CTSA One Health Alliance (COHA) Bioethics Summit held in Columbus, OH during February 2020. This two-day workshop focused on several bioethical topics in veterinary clinical research including: subject selection, enrollment, and owner engagement; study protocol review and approval; and use of biologics in veterinary clinical research.

Global Programs

The Office for Global Programs coordinated the submission and review of a record number of 31 proposals from 1st and 2nd year professional and graduate students seeking to obtain funding for summer research and/or professional experience. There were 17 applications for International Externships, 11 for Global Fellowships and three (3) for Cheetah Conservation Fund (CCF) Internships. The International Programs Committee awarded 11 International Externships and a separate faculty review committee awarded nine (9) Global Fellowships, four (4) focused on feline health and five (5) for work with underserved communities.

Population Health & Reproduction

Pramod Pandey - donated ~5000 masks to VMTH

Sharif Aly - loan automated instrumentation to Tulare County for Coronavirus testing

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

Office of Research

Awards

- Nominated Dr. Nicole Baumgarth Prestigious AAAS Fellow (awarded)
- Nominated Dr. Peter Havel AAVMC Excellence in Research Award (awarded)
- Nominated Cheyenne Kuo Chen MAF Research Scholar (Awarded)
- Nominated DVM student Maya Schlesinger AVMA/AVMF 2nd Opportunity Fellowship (awarded)
- Nominated Dr. Ronald Li MAF First Award Pending

Research Programs

- Record 63 STAR applicants reviewed – funding letters sent with request for modifications to remote alternatives
- Formulated alternative STAR program to accommodate pandemic guidance
- COVID-19 relevant research and teaching resources added to ORGE landing page
- Issued RFP for GSSP related funding, >40 applicants submitted (committee assembled, reviewer assigned, review scheduled for May)
- Facilitated and implemented graduate admin remote services
- Facilitated one on one grant writing reviews
- Facilitated space resolutions
- Research expo plan consolidated and posted
- Great ytd research grant numbers (provided by Leslie) despite COVID-19 slowdown

VMTH / Advancement Communications

Dog Continues to Fight Cancer Following Treatment to Avoid Amputation

<https://www.vetmed.ucdavis.edu/index.php/news/dog-continues-fight-cancer-following-treatment-avoid-amputation>

One Health Institute

Dr. Ray Wack retired after 20 years of dedicated service to teaching and providing outstanding care

to the animals at the Sacramento Zoo and other wildlife/zoological facilities. He reinvigorated the Zoological Medicine Program at the school, making it a favorite rotation among the students—often with a long waiting list. He inspired many young professionals to enter zoological, wildlife and conservation medicine. Dr. Wack’s collaborative research projects with USGS, CDFW & AZA improved conservation efforts for endangered giant garter snakes & western pond turtles.

Center for Equine Health

The first 2020 foal was born in March. The CEH breeding program is a collaborative effort with the Equine Reproduction Service and offers residents and students opportunities to be involved in all aspects, from breeding to neonatal care.

Center for Companion Animal Health

The CCAH released the following call for resident proposals:

- Resident research call (deadline is May 11, 2020)

The CCAH provided support to SVM residents by funding 5 resident research grants in the amount of \$29,392:

- In vivo Inhibition of tissue transglutaminase 2 (TGM2) to prevent corneal stromal haze
- Determination of mammalian DNA in commercial canine treats and supplements
- Long-term outcome of nonunion fractures in dogs treated with bone morphogenetic protein
- Pharmacokinetics and safety of oral grapiprant administration to red-tailed hawks (*B. jamaicensis*)
- Antiviral Activity of Acyclovir, Penciclovir, Cidofovir, and Foscarnet against Koi Herpesvirus

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

Center for Equine Health

Launched the Pioneer 100 Horse Project (sponsored by Platinum Performance), a precision medicine approach to equine health:

https://www.platinumperformance.com/articles/next-frontier?fbclid=IwAR2VamBfbPJ4-ieADi0oTcCCFn4Hje7quWmnjBAoK5z1_LSTp5vGUjf4cQ0

Renovations are underway for the Equine Reproduction Service receiving area and laboratory space.

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

Center for Companion Animal Health

The CCAH released the following calls for faculty proposals:

- Faculty research call (deadline is May 18, 2020)
- Equipment call (review in process)

CCAHA provided research, equipment and publication support to faculty as follows:

- Eight faculty research grants in the amount of \$341,686
- Two faculty match research grants in the amount of \$15,000

- Three faculty publication costs in the amount of \$2, 775
- Support for the All Species Imaging Center

One Health Institute

The One Health Institute published multiple papers that influenced public dialogue over climate and disease-prevention policy.

The Link Between Virus Spillover, Wildlife Extinction and the Environment, Proceedings of the Royal Society B.

The paper, published April 8 in Proceedings of the Royal Society B, indicates that infectious diseases like COVID-19 can be connected to environmental change. Among the findings: wild animals threatened by hunting, wildlife trade and habitat destruction were predicted to host 2x as many zoonotic viruses vs. those decreasing for other reasons. The study also found that wild animals that have increased in abundance and adapted well to human landscapes, including some rodent, bat and primate species, carry the most number of zoonotic viruses. The paper received significant media coverage, including stories in The Guardian, Bloomberg (reprinted in Time Magazine), Washington Post, The Daily Mail, BBC News, Newsweek, ABC News, and others.

Paper: <https://royalsocietypublishing.org/doi/10.1098/rspb.2019.2736>

Press release: <https://www.ucdavis.edu/coronavirus/news/link-between-virus-spillover-wildlife-extinction-and-environment>

One Health blog post: <https://www.ucdavis.edu/one-health/habitat-destruction-and-biodiversity-loss-root-emerging-infectious-diseases>

Sea Otters, Opossums and the Surprising Ways Pathogens Move From Land to Sea, Scientific Reports

Our press release, distributed on March 18, announces study findings published in Scientific Reports that connects how *Sarcocystis neurona*, a parasite known only to be hosted in North America by the Virginia opossum, is infecting and killing sea otters along the West Coast. The study suggests the pathogen may be carried by water runoff from land to sea, where it can be concentrated through ocean movement and prey species, such as clams. This study highlights risk factors for one species' exposure to one parasite, and also provides a better understanding of how parasites and infection can move from land to sea to marine mammals. The paper was covered by Atlas Obscura (<https://www.atlasobscura.com/articles/sea-otters-opossums-social-distancing>).

Paper: <https://www.nature.com/articles/s41598-020-60254-5>

Press release: <https://www.ucdavis.edu/news/sea-otters-opossums-and-surprising-ways-pathogens-move-land-sea>

Marburg Virus Found in Sierra Leone Bats, Nature Communications

Our press release, distributed on Jan. 24, announces the publication of the discovery of Marburg in Sierra Leone, following the preliminary findings release in Dec. 2019. The release emphasizes how the discovery was used to develop and implement public-health messaging and community engagement to reduce the risk of spillover. Media coverage to date includes U.S. News and World Report, SciTech Daily, SciDev.Net, Outbreak News, The Daily Beast and the Davis Patch.

Paper: <https://www.nature.com/articles/s41467-020-14327-8>

Press release: <https://www.ucdavis.edu/news/marburg-virus-found-sierra-leone-bats>

U.S. News and World Report: <https://www.usnews.com/news/health-news/articles/2020-01-27/health-highlights-jan-27-2020>

Marine Mammal Health Assessments Press Briefing

On February 16, Sea Doc Society Director Joe Gaydos, Wildlife Health Center Research Associate Frances M.D. Gulland and Senior Scientist Michael More of Woods Hole Oceanographic Institution held a press briefing about new and ongoing efforts to protect marine mammal health, including that of endangered southern resident killer whales, North Atlantic right whales, and the vaquita. The briefing took place at the annual meeting of American Association for the Advancement of Science in Seattle, Washington, and was based on the speakers' scientific session, "Marine Mammal Health Assessments: Informing Scientists, Policy and the Public"

VMTH / Advancement Communications

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

<https://www.vetmed.ucdavis.edu/news/veterinarians-use-artificial-intelligence-aid-diagnosis-addisons-disease>

Hosted one "Evening with Vet Med" public lecture

[Management Considerations for California Horses](#)

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

Faculty Executive Committee (EC)

The EC appointed Dr. Jenessa Gjeltrema to the CEC to replace Dr. Ray Wack (who will be retiring).

VMTH / Advancement Communications

FAQs for Pet Owners during the COVID-19 Pandemic

<https://www.vetmed.ucdavis.edu/news/faqs-pet-owners-during-covid-19-pandemic>

Changes to Hospital Intake during the COVID-19 Pandemic

<https://youtu.be/HDO62K2U0AA>

Veterinary Medicine Teaching and Research Center (Tulare)

Veterinary Medicine Teaching and Research Center: The VMTRC is excited to provide students enrolled in the Dairy Production Medicine rotation the opportunity to tour a beef processing facility. This tour exposes students to a key point in food safety control within production medicine. This unique opportunity is made possible through collaboration with USDA.

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 / Advancement Communications

Rob Warren

Multiple Specialists Collaborate to Remove Cancerous Tumor from Cat's Chest

<https://www.vetmed.ucdavis.edu/index.php/news/multiple-specialists-collaborate-remove-cancerous-tumor-cats-chest>

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

Advancement/VMTH:

Olympic Veterinary gifted a piece of equipment to the Veterinary Medical Teaching Hospital. The Olympic Versa-Lift with Quick-Lock Casters included additional accessories: an instrument tray, laptop tray and IV pull to increase functionality and is a lift that was specifically designed for curbside pick-up so that it can be pushed easily down the ramp and into the parking lot to meet clients at the car. It features an electric lift (height adjustable) as well as a central brake locking system for safety.

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

VMTH / Advancement Communications

Rob Warren

Surgery Reverses Puppy's Heart Failure

<https://www.vetmed.ucdavis.edu/news/surgery-reverses-puppys-heart-failure>

Sports Medicine Specialists Help Horse Reach Peak Performance

<https://www.vetmed.ucdavis.edu/news/sports-medicine-specialists-help-horse-reach-peak-performance>

Surgeons Help Acutely Paralyzed Dog Walk Again

<https://www.vetmed.ucdavis.edu/news/surgeons-help-acutely-paralyzed-dog-walk-again>

Dog's life saved by multiple VMTH specialists working together to detect cancer early

<https://www.vetmed.ucdavis.edu/index.php/news/multiple-specialists-save-dog-oral-cancer>

Veterinary Scientists Successfully Advance Treatment for Feline Chronic Gingivostomatitis

<https://www.vetmed.ucdavis.edu/news/veterinary-scientists-successfully-advance-treatment-feline-chronic-gingivostomatitis>

Bearded Dragon's Oral Diseases Treated

<https://www.vetmed.ucdavis.edu/news/bearded-dragons-oral-diseases-treated>

Information on Animals in Regards to COVID-19

<https://www.vetmed.ucdavis.edu/index.php/news/can-your-animals-get-coronavirus>

Given Four Weeks To Live, Dog Still Thriving a Year Later

<https://www.vetmed.ucdavis.edu/news/given-four-weeks-live-dog-still-thriving-year-later>

GOAL 4: ADVANCE THE WELLBEING OF ANIMALS AND PEOPLE

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

Faculty Executive Committee (EC)

The EC continued their discussion about the need for a central resource where faculty can find information about opportunities for outreach/scholarship/community service activities and events in the school. Next, the EC will determine the needs/goals of the school's Outreach web page, to improve how faculty are informed about opportunities, and to improve accessibility to information. At the May meeting, the EC will be meeting with Drs. Pascoe and Tell to discuss a system of rewards/recognition through the merit and promotions process for faculty engaged in outreach and scholarship activities.

Coronavirus Communications

The EC was updated about the new coronavirus "resource" page set up on the school's homepage, which includes information and direct links provided by the CDC, California Department of Health, UC and the campus for students, administrators, community members, the media and for travelers. COVID research and science facts will be made available on the Health Topics page and FAQs. The EC distributed a communication to all faculty regarding their COVID-related discussions, and the resources available through the EC members.

Admin Group

The VMDO fiscal office moved the school's financial forecasting to AggieBudget – the new campus budgeting and forecasting tool; developed the annual SVM endowment earnings report for the school's 300+ endowments to facilitate stewardship; participated on the Provost's Budget Advisory Task Force to advise on budget targets for the campus in light of the structural deficit; developed, in collaboration with the SVM Office of Advancement, guidelines for SVM endowed chair management; presented budget issues to the Faculty Executive Committee; developed return-to-aid allocations to SVM MPVM and DVM students and submitted to the campus Office of Financial Aid for packaging; and submitted a monthly estimate of financial losses of SVM units due to COVID-19 to the campus budget office. The facilities and safety group worked with the SVM departments and centers to develop UC Ready emergency preparedness plans.

Strategy 4.2. Enhance Local and Global Communications, and Engagement to Advance the School's Impacts

Veterinary Institute for Regenerative Cures (VIRC)

Drs. Boaz Arzi and Dori Borjesson completed a multicenter clinical trial testing the use of adipose-derived mesenchymal stem cells (ASCs) to treat feline chronic gingivostomatitis (FCGS), a debilitating oral disease in cats. Treatment of cats with FCGS at UC Davis has shown very positive results and the team of veterinarians and researchers found similar positive results when expanding the trial to another veterinary school and two private veterinary clinics. This further verification establishes protocol for the safe and effective use of fresh, allogeneic and autologous ASCs to treat FCGS. The results of the study were recently published in the medical journal *Stem Cell Research & Therapy*. Collaborating with a licensed stem cell producer in California, the team will work with the Food and Drug Administration to start a countrywide clinical trial to move the product toward FDA approval.

One Health

External Media: Story Examples

4/8/2020, Bloomberg, Want to Stop the Next Pandemic? Start Protecting Wildlife Habitats

4/7/20, The Guardian, Human impact on wildlife to blame for spread of viruses, says study

4/7/20, Newsweek, Risk of Virus Spillover from Animals to Humans Increases through Wildlife Exploitation and Domestication

4/6/20, This Podcast Will Kill You, Spillover

2/11/20, Time, Coronavirus Researchers Are Using High-Tech Methods to Predict Where the Virus Might Go Next

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

Outreach and Admissions

Recruitment:

- Road trip to San Diego (4 universities)
- Zoom with Tuskegee (20 students and advisor)
- Facebook live event hosted with our ambassadors directed class of 2024 candidates

Outreach:

- Planned for summer outreach events (SMASH, SEP, VetMed Youth Camp, COSMOS)

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

One Health Institute

OWCN Respond to Oil Spill in Santa Maria

On March 21 the OWCN was activated by OSPR and staff were deployed to support response efforts to a tanker truck spill that released 4,500 gallons of crude oil into Cuyama River in Santa Maria. Nine Western pond turtles were successfully recovered. Sample spill coverage:

3/23/20, Noozhawk: Oiled Wildlife Rescued After Tanker Crashes Into Cuyama River

3/23/20, Santa Maria Times: Trailer that rolled into Cuyama River spilled about 4,200 gallons of crude oil

COVID-19 Response

OHI Tapped for Expertise in National COVID-19 Response

The OHI leadership team members are providing scientific and technical expertise in pandemic response and prevention to inform national policy during this crisis. Research by our scientists continues to provide insight across the areas of zoonotic disease surveillance, modeling, and workforce capacity building. OHI Executive Director Jonna Mazet was appointed to the National Academies Standing Committee on Emerging Infectious Diseases and 21st Century Health Threats, which was created to assist the federal government with critical science and policy issues related to the COVID-19 crisis and other emerging health threats. On March 18, OHI led a briefing for Senate Foreign Relations staffers on PREDICT COVID-19 related response efforts. OHI also co-hosted a virtual COVID-19 Town Hall with the School of Veterinary Medicine on April 9, with more than 350 SVM community members in attendance.

PREDICT-trained Laboratories on the Front Lines

PREDICT-trained laboratories and health care professionals are on the frontlines of their countries' response efforts, serving as COVID-19 taskforce leaders, managing testing laboratories, promoting early social distancing and shelter-in-place, and more. Laboratories in Thailand, Cambodia and Nepal were able to detect the new SARS CoV-2 virus in some of the first patients that traveled outside China. These countries are better prepared and able to respond to this challenge because of the training and capacity strengthening supported through the OHI. Learn more about how PREDICT has supported COVID-19 outbreak response (link to https://ohi.vetmed.ucdavis.edu/sites/g/files/dgvnsk5251/files/inline-files/PREDICT_4pager_COVID.pdf (4-page PDF)

PREDICT Receives Six-Month Extension

On March 31, OHI announced PREDICT had received a six-month extension from USAID to provide COVID-19 emergency support to other countries for outbreak response, including technical expertise to support detection of SARS CoV-2 cases in Africa, Asia and the Middle East to inform the public health response. The project will also investigate the animal source or sources of SARS CoV-2 using data and samples collected over the past 10 years in Asia and Southeast Asia. Release: <https://www.ucdavis.edu/coronavirus/news/predict-receives-extension-covid-19-pandemic-emergency-response>

Gorilla Doctors Guide Protection Efforts for Mountain and Grauer's gorillas

Gorilla Doctors' veterinary teams in Rwanda, Uganda and DR Congo are providing leadership and expertise in implementing the necessary measures for best protecting mountain and Grauer's gorillas from the threat of SARS CoV-2. Gorilla Doctors issued memos to its government partners in February and March, advising the protected area authorities to consider SARS CoV-2 a threat to gorilla health, and that strict adherence to tourism and great ape health protection best practices were essential. Rwanda, Uganda and DR Congo have since temporarily suspended gorilla tourism and severely restricted access to the parks, but Gorilla Doctor's work continues — veterinarians have special permission to perform health monitoring visits. Between January 1-March 31, Gorilla Doctors performed

21 clinical interventions to treat 12 different ill or injured mountain and Grauer's gorillas. Dr. Julius Nziza, Gorilla Doctors' Head Veterinarian, is on the national COVID-19 Technical Advisory Team, as he led the USAID Emerging Pandemic Threats PREDICT Project in Rwanda from 2009 – 2019.

One Health Workforce COVID-19 Session

The One Health Workforce collaborated with the CDC to present a COVID-19 session on March 23 for members of One Health University Networks in Africa and Southeast Asia and stakeholders. More than 470 participants from 49 countries attended the online session, which encouraged sharing local action for global benefit, using the ECHO virtual community meeting platform.

SeaDoc Society HOMESCHOOL

SeaDoc Society launched a one-stop resource called HOMESCHOOL that will allow homebound students to explore the Salish Sea through videos and fun activities. juniorseadoctors.com/homeschool

Administrative Group: AWARDS & HONORS SITE

- Dr. Jonna Mazet— appointed to the National Academies Standing Committee on Emerging Infectious Diseases and 21st Century Health Threats, which was created to assist the federal government with critical science and policy issues related to the COVID-19 crisis and other emerging health threats.
- Dr. Tracey Goldstein— nominated Chair Elect of the NOAA Working Group on Marine Mammal Unusual Mortality Events
- Dr. Brian Bird— named member of WHO Global Outbreak and Response Network
- Dr. Brian Bird— named 2020 SVM inaugural Rising Star alumni
- Dr. Megan Moriarty, SVM alumna (DVM, MPVM) and PhD candidate— named Wildlife Health Center/CDFW Free-Ranging Wildlife Health Resident 2020-23

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

Advancement Communications / VMTH

- [Can Pets Get the Coronavirus?](#)
Los Angeles Times
- [Coronavirus and Pets](#)
Insight on Capital Public Radio
- [Can You Get Coronavirus From Your Dog? Plus More Pet-Related Questions Answered](#)
Everyday Health
- [Going Viral... Covid-19: What a Pet Owner Needs to Know](#)
The Pet Doctor podcast
- [Worried About Your Dog Or Cat And Coronavirus? Here's What To Know](#)
Huff Post

- [A Cat In Belgium Tested Positive For COVID-19, But You Shouldn't Panic](#)
Huff Post
- [A Cat Appears to Have Caught the Coronavirus, but It's Complicated](#)
Science News
- [The Promise of Stem Cell Therapy: What We Know and Don't Know About These Exciting Cells](#)
AAHA Trends
- [How UC Davis Veterinarians Use Fish Skins to Help Heal Australian Wildlife](#)
KCRA
- [UC Davis Veterinarians Create Life-saving Addison's Disease Diagnostic Tool](#)
DVM360
- [Wildfire Cat Study At UC Davis](#)
CBS13
- [Is Your Dog Scared of Thunder? Here Are Ways To Help](#)
Southern Living
- [Santa Anita's New PET and MRI Units 100% Save Lives](#)
Thoroughbred Daily News

GOAL 5: PROMOTE A VIBRANT AND DIVERSE COMMUNITY

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

Faculty Executive Committee (EC):

Resources for Faculty Recruitment

The EC discussed the need for a brochure indicating the wide range of economic benefits of employment at the school/university which could be used for faculty recruitment (salary, pension, medical benefits, sabbatical, additional consulting opportunities, etc.) If available, comparisons to private practice figures could be provided. Faculty could then share this information when they meet with visiting candidates. The EC is developing the list of suggested items for the brochure, and will provide to the SVM personnel office.

Academic Career Recruiting

The EC discussed the need to attract and retain faculty for careers in academia – which has become problematic, particularly in certain clinical specialties and for those on a research track. The school needs to find ways to better mentor DVM students, retain existing residents and graduate students, and groom them for a path in academia. Solutions suggested include: developing integrated or combined PhD/Resident programs, expanding fellowship programs, and perhaps linking fellowships to residency programs - these ideas were forwarded to the hospital leadership and the Graduate Clinical Education Committee for consideration.

Mentoring

The EC has been discussing the adoption of coordinated best practices for mentoring at the department level, establishing mentoring as part of the SVM “culture”, and sustaining and evolving those activities. The EC will meet with the department chairs in June to exchange information about their mentoring activities – what is working, what is not working, and to develop homogenized best

practices and metrics, discuss any needs for centralized resources, support, and to emphasize the importance of sustaining those mentoring activities. The EC will then discuss the idea for a mentoring “survival guide” of resources (available on VIPER) for faculty.

New SVM Community Council

The EC was updated about the new administrative SVM Community Council, and their focus to identify and promote activities, programs and ideas related the school’s internal culture in areas such as: principles of community, communication, health & wellness, community-building, collaborations, diversity.

Statements on Contributions to Diversity, Equity and Inclusion (DEI) for Faculty Recruitment

The EC discussed the use of Contributions to DEI Statements by the campus, and expressed the need for more clarity on how those statements will be implemented into the university’s hiring process. Of particular concern is the impact of those statements when the SVM is recruiting for highly specialized positions where only a small number of candidates across the country possess the skills/expertise required, and where opportunities to advance diversity in a field may be relatively limited. The concerns were reported through the Academic Senate Information System (ASIS).

AAVMC Annual Report

The EC discussed highlights from the AAVMC Annual Report, including topics related to advocacy, education and the school’s student debt reduction data.

2019 Economic Issues Survey of California Veterinarians and RVTs

The EC discussed results from this CVMA survey of veterinarians and RVTs related to work hours, job satisfaction, job seeking/hiring, educational debt, practice ownership, corporate practices, salary, and benefits. The school will be looking at ways to address concerns raised in the clinic, and to incorporate related best practices into the curriculum.

AVMA Economic State of the Veterinary Profession Report

The EC discussed the AVMA Economic State of the Profession Report, along with feedback received from faculty and academic departments. Trends were noted related to students applying for internships and residencies (and the decline of interest in pursuing academic careers), salary equity issues, and the numbers of corporate-owned practices versus private practice are on the rise. It was noted that faculty need to be regularly updated about salary equity efforts being made at UC Davis, and the data being collected. Going forward, the school needs to stay informed about changing trends in the profession which can impact the school’s programs.

AVMA/AAVMC Joint Veterinary Futures Commission Report – “The Future of Veterinary Medicine”

The EC discussed this joint report and the emerging trends highlighted. There is need to consider technological advances for veterinary medicine, like artificial intelligence, robotics, virtual reality, and to incorporate data science and analysis, and to develop a vision for adapting to the changing environment. The academic departments, centers, Academic Council and the Teaching Academy will be discussing these trends.

Advisory to Deans: Reference Checks

The EC discussed the two-year Reference Check pilot program being conducted by the Office of Academic Affairs. All recruits must sign the “Authorization to Release Information” to enable UC Davis to obtain information about a final candidates’ past conduct in their previous appointments. Any information about misconduct will be discussed/assessed by the Office of Academic Affairs, Dean

and department chair, and a determination will be made about whether the candidate should remain eligible for consideration. This program was developed in support of the effort to create and maintain a community for academic excellence where all individuals can work and learn together in a safe and secure environment, free of violence, harassment, discrimination, exploitation or intimidation.

Office for Global Programs

On March 5, 2020, Dr. Paulina Crook received the Chancellor's Staff Award for International Engagement from Chancellor Gary May at the Global Affairs International Connections reception. Dr. Crook was recognized for her outstanding international engagement in carrying out the university's missions of teaching, research, and service.

CLaW:

- Mentored Student Green Task Force (environmental conservation initiatives)

PMI:

Dr. Chris Barker was selected as a 2019-2020 Chancellor's Fellow which honors the achievements of outstanding faculty members early in their careers. <https://www.ucdavis.edu/news/meet-20th-class-chancellors-fellows> (for images and verbage)

VMTH / Advancement Communications

School Donates Supplies to Medical Center

<https://www.vetmed.ucdavis.edu/news/school-donates-supplies-medical-center>

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

CLaW:

Professionalism:

- The Healer's Art Program was launched
- Virtual DVM Career Fair
- Networking at Noon

Leadership:

- Leadership exploration and development series – completed

Wellbeing:

- Wake Up for Wellness (2 events)
- Week of Wellness including a Mom's in Vet Med Panel Discussion

Counseling:

- Secured philanthropic funding for part time counselor Fall '20/Spring '21

Personnel Administration / Dean's Office

Drs. Javier Asin Ros, Ingrid Balsa, Sarah Depenbrock, Sina Marsilio, Christine Toedebusch, and Kate Watson were selected to attend the Paths to Leadership seminar hosted by the SOM as part of a career and academic medicine early career faculty training program in leadership skills.

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

ACADEMIC PERSONNEL NEW FACULTY APPOINTMENTS



Kristin Jankowski

Health Sciences Assistant Clinical Professor,
Community Practice



Javier Asin Ros, DVM, PhD,

Assistant Professor of Clinical Diagnostic Pathology,
CAHFS and PMI, 1/2/2020



Erik Olstad, DVM,

Health Sciences Assistant Professor in Communication,
Professional Skills, and Community Practice, VME, 2/1/2020



Fabio Soares de Lima, DVM, PhD,

Assistant Professor of Livestock Health/Assistant Livestock Theriogenologist,
AES, PHR, 2/1/2020

VSR

Recent recruitments: Bianca Martins and Allyson Groth, both Prof Clin in ophthalmology (Allyson Groth's appointment is still being reviewed at the campus level).