



Center for
Comparative Medicine
**20th Anniversary
Symposium**

This anniversary event will feature presentations of CCM founders and current faculty members as well as others who have made significant impact on the success of the CCM research and teaching mission.

Keynote Speaker:

Dr. Jay Levy, MD

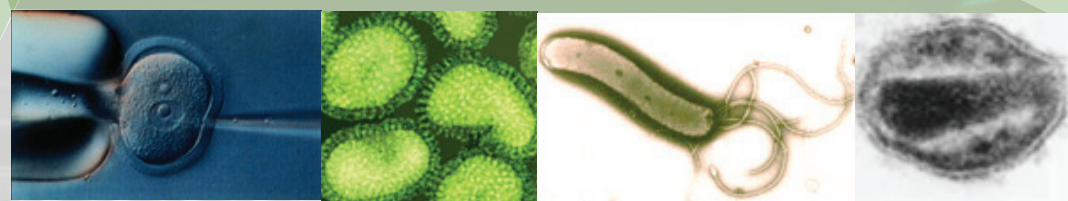
Professor, University of California, SF

**“HIV/AIDS: Research
Achievements and
Future Challenges”**

October 9, 2018

8AM – 5:30PM

UC Davis Conference Center



Twenty Years of Success –

The Center for Comparative Medicine emerged from the discovery and development of the simian and feline models for human AIDS, which facilitated translational research on antiviral therapies and vaccines.

- /// Analyzed mucosal immunology for vaccine development for herpes simplex virus, HIV / SIV, influenza virus, and Zika virus
- /// Developed the rhesus monkey model of human cytomegalovirus (CMV) and generated the rhesus CMV vaccine vector used for SIV, TB, and Ebola vaccination
- /// Defined the regulation of B-cells and B-cell immunity to viral and bacterial pathogens
- /// Investigated molecular imaging of breast cancer and the tumor microenvironment
- /// Analyzed immunological and molecular mechanisms of CD4 T-cell helper activity for vaccination
- /// Investigated pathogenesis of *Helicobacter pylori* by defining the function of the bacterial oncoprotein and changes in surface adhesins
- /// Characterized antiviral and antitumor responses of natural killer (NK) cells and the novel g-NK cell subset
- /// Established the role of macrophages in HIV / SIV pathogenesis and aging in non-human primate models
- /// Generated mouse models for a wide variety of diseases; improved methods for cryopreservation and artificial reproduction
- /// Developed imaging methods to optimize antiretroviral therapies aimed at targeting HIV / SIV reservoirs
- /// Studied host-pathogen interactions and T-cell immunology to inform vaccine development for *Salmonella* and *Chlamydia*

– and Broad Future Directions

- /// Animal modeling for studies of pathogenesis and immunology of emerging infectious diseases
- /// Development of novel vaccines and therapeutic interventions to infectious pathogens
- /// Investigating mechanisms of inflammation for healthy aging
- /// Increased research interactions with industry, start-ups to Big Pharma
- /// Innovative mentoring for early stage scientists

For Conference Details, see:

<https://ccm.ucdavis.edu/ccm-20th-symposium>