

October 2016

OFFICE OF RESEARCH

INSIDER

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UC Davis Center for Poverty Research Points the Way Toward Poverty Reduction

A new report on the national poverty rate highlights the urgent need to address persistently low wages nationwide and to strengthen the social safety net, according to the University of California, Davis, Center for Poverty Research.

Today, the U.S. Census Bureau reported that a total of 13.5 percent of Americans lived in poverty in 2015. Children were affected at even higher numbers, with nearly 20 percent living below the poverty line. While these levels of poverty seem to persist year after year, research at UC Davis shows a path forward.

“The official poverty rate is a valuable measure of how well we as a nation ensure opportunity for those who earn the least,” said Ann Huff Stevens, professor of economics at UC Davis, and director of the Center for Poverty Research.

Read more [here](#).



Maize Genetics May Show How Crops Adapt to Climate Change

With the onset of climate change and changes in irrigation, adapting food crops to grow in diverse environments could help feed the world. Now University of California, Davis, scientists are leading a major new project, funded by the National Science Foundation with \$4.1 million over five years, to study genetic adaptation to different environments in maize.

Maize (“corn” in the U.S.) originated approximately 10,000 years ago in a hot, low-elevation region in southwest Mexico. It independently adapted from low-elevation to high-elevation environments in Mexico and in South America in a relatively short time, by evolutionary standards.

Read more [here](#).

NIH Renews Knockout Mouse Project

The University of California, Davis, has been awarded over \$29 million from the National Institutes of Health under the next five-year phase of the Knockout Mouse Project, or KOMP. UC Davis is the lead organization in a consortium involving research partners at The Centre for Phenogenomics in Toronto, Canada; the Children’s Hospital Oakland Research Institute, or CHORI; and Charles River Laboratories in Wilmington, Massachusetts.

“Knockout” mice are laboratory mice

bred with specific genes silenced or “knocked out.” These mice have been an invaluable tool for fundamental research on a wide range of diseases and conditions.

The goal of this phase of the Knockout Mouse Project is to produce and phenotype knockout mouse models for up to 1,000 genes in an effort to better understand the genetic basis for diseases in humans and animals.

Read more [here](#).





Innovation News

Seven UC Davis Startups Selected as Finalists for 2016 Sacramento Region Innovation Awards

Seven University of California, Davis, companies are among the 17 finalists for the inaugural Sacramento Region Innovation Awards announced on September 21. Stoel Rives LLP, Moss Adams LLP and the *Sacramento Business Journal* are presenting the awards. More than 80 nominations were reviewed by the selection committee, which was made up of representatives from the region's business, academic and technology sectors.

The program features awards in six categories. UC Davis-affiliated companies are represented in three of the six: Food and Agribusiness, Hardware and Electronics, and Medical and Health Technologies and Services. Winners will be announced at an awards luncheon in Sacramento on Friday, November 4, 2016. Below are the UC Davis-affiliated finalists.

View finalists and read more [here](#).



View of colon using MUSE imaging technology

14 New Startups Based on Technologies Developed at UC Davis Tackle Range of Scientific, Medical, and Societal Problems

The University of California, Davis, enabled the foundation of 14 commercial startups during the past fiscal year— matching the largest number of new ventures launched in a single year, based on UC Davis technologies.

MUSE Microscopy, one of the startups, is planning to revolutionize the way pathologists identify disease. The company's technology, jointly developed with Lawrence Livermore National Laboratory, has the potential to save pathologists time and money.

Examining patient tissue under a microscope is critical for research and diagnosing diseases, but preparing samples for slides is costly and time-consuming, taking hours to days. MUSE has developed an alternative: a method that uses short-wavelength ultraviolet light and fluorescent dyes to generate high-definition images of tissue features without the drawbacks of traditional slide preparation.

Logos4n, another startup based on research being conducted at UC Davis, has developed a method to identify individuals' genomes with high precision, as well as measure genetic changes from development, stress and aging.

Read more [here](#).

Research Unit News



Science, Education and Discovery in the Grand Canyon

Water, rocks and life. Perhaps nowhere on the planet is that combination so brilliantly on display as where the Grand Canyon meets the Colorado River.

That's why, each spring, UC Davis graduate students of geology, ecology and hydrology explore the Grand Canyon by floating down the Colorado River, splitting the 225-mile river journey into two halves.

Watch trailers and read more about the adventure [here](#).



Science Friday host Ira Flatow and crew were in Jackson Hall at the Mondavi Center for the Performing Arts on September 24th, talking with UC Davis scientists and recording

the discussion, which aired on Science Friday. The show featured Tessa Hill, associate professor, Department of Earth and Planetary Sciences and Bodega Marine Laboratory; Oliver Kreylos, associate researcher, Department of Earth and Planetary Sciences; Jeanette Newmiller, graduate student, Center for Watershed Sciences; and John Crowe, professor emeritus, Department of Molecular and Cellular Biology.

Decoupling Social Status and Status Certainty Effects on Health in Macaques: a Network Approach



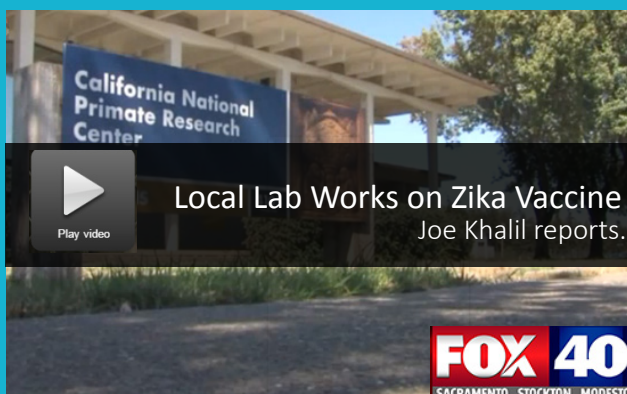
Rhesus monkey juveniles stay with their mother for many years, sometimes still insisting on a ride, even when there is a new infant to carry.

Although a wealth of literature points to the importance of social factors on health, a detailed understanding of the complex interplay between social and biological systems is lacking. Social status is one aspect of social life that is made up of multiple structural (humans: income, education; animals: mating system, dominance rank) and relational components (perceived social status, dominance interactions). In a nonhuman primate model we use novel network techniques to decouple two components of social status, dominance rank (a commonly used measure of social status in animal models) and dominance certainty (the relative certainty vs. ambiguity of an individual's status), allowing for a more complex examination of how social status impacts health.

Read the entire article [here](#).

UC Davis Research on Zika Featured on Fox40 News

click to watch



Bodega Marine Laboratory 50th Celebration



The Bodega Marine Laboratory (BML) celebrated its 50th Anniversary with a two-day event September 16 and 17. As part of the celebration, BLM created a new website, BML50.com, to allow over 10,000 alumni, staff and researchers to connect and comment on the impact of BML and to share their personal experience.

The UC Davis Chancellor's Office hosted the first day of events, opening the lab for dignitaries from UC Davis and UC Berkeley as well as donors and government officials. Guests were given time to explore the lab during an open-house staffed by current students and faculty. The event featured outdoor tours of the natural reserve, a new exhibit space and multiple educational displays portraying the history of the lab and the vitality of the Bodega Marine Reserve.

A video detailing the history of the lab and its influence over the past 50 years was presented at the beginning of the event, and can also be viewed [here](#).

The video presentation was followed by a warm welcome from Gary Cherr, director of the Bodega Marine Laboratory. Rick Grosberg, founding director of the Coastal and Marine Sciences Institute, and Ken Burtis, acting provost, spoke on the importance of UC Davis' commitment to marine science moving forward. U.S. Congressman Mike Thompson and State Assembly member Jim Wood were on hand to present the lab with a Congressional Record and State Resolution recognizing 50 years of research and education. The program concluded for the day with Wood reading a few words on behalf Governor Jerry Brown, who provided a State Proclamation for the ceremony.



View of the Grand Hall set up for the event.



Photos of speakers: Harris Lewin, Jim Wood, Gary Cherr, Mike Thompson, Rick Grosberg and Ken Burtis.



Out & About

Tahoe Environmental Research Center



Researchers from the University of Sydney and UC Davis gathered for a joint workshop at the Tahoe Environmental Research Center.

Microbiome Brainstorming Workshop



The Microbiome Brainstorming workshop was held on Tuesday, September 27th. The workshop brought together the collective expertise of UC Davis' diverse scholars (approximately 70) to build on existing strengths and catalyze new innovations and collaborations on microbiome-related topics spanning the breadth of programs at UC Davis.



Out & About

UC Davis co-sponsors environmental conference in Sacramento

TOP RIGHT: NPR's Christopher Joyce introduces Daniel Sperling, founding director of the UC Davis Institute of Transportation Studies during the Society of Environmental Journalists' lunch plenary on Saturday, September 24, "Can Technology Save the Planet?"

BOTTOM RIGHT: SEJ lunch plenary Saturday, September 24. From left to right: Christopher Joyce, science correspondent, NPR; Mary Ruckelshaus, managing director, Natural Capital Project; Daniel Sperling, founding director, UC Davis Institute of Transportation Studies; Deb Frodl, global executive director, Ecomagination, General Electric; and Jonathan Foley, executive director, California Academy of Sciences.



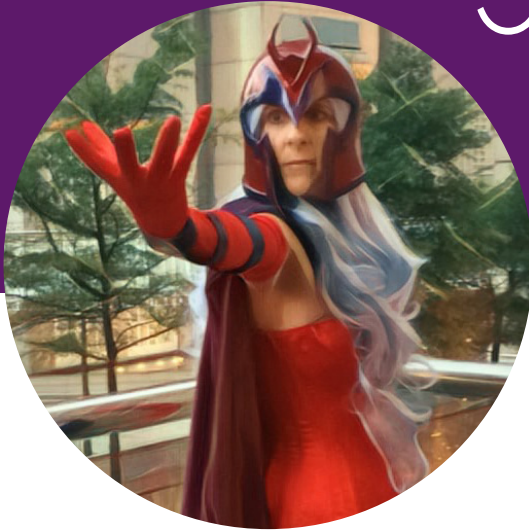
Science Journalism Panel



Strategic Communications hosted a Science Journalism Panel, geared for campus researchers and communication professionals. Panelists included Christopher Joyce, NPR national science correspondent; Ken Weiss, Pulitzer Prize-winning journalist; Erica Gies, independent journalist; Lauren Sommer and KQED science journalist. The panel was moderated by Nancy Baron of COMPASS.

Spotlight on...

by Nancy Rashid



Bridget Rans Strong

Team Leader, Proposals, Sponsored Programs

Indiana roots? Yes, I was born and raised on a family farm (corn and soy). The town was so small that I went to a boarding school for my last two years of high school.

Career path? After my law degree, I kind of fell into “grants.” I even had my own grant for awhile, as the director of the Indiana State Cancer Registry.

When you say “cross-checking,” you don’t mean grants and data verification? Nope! I played roller hockey in college. As

the only girl. And as the goalie. Now I’m playing ice hockey in Roseville.

San Jose Sharks jersey? We went to the first playoffs they were ever in (last April), to Game 3 of the Stanley Cup Finals.

More play-time? I’m really into “cosplay.” We dress up in costumes and attend events or conventions: movie or game characters; zombies that pop out during 5k runs.

Will you win the Halloween costume contest? Only if anyone can guess who I am!

Family vacation? This year we packed up our costumes and headed to Atlanta for DragonCON. We were in the parade

through downtown.

Traditional travel? I hiked Half Dome in Yosemite this summer. And we want to go to Bodie, California (an original mining town from the 1800s, frozen in time).

Advice for new-to-Californians? Travel all around. Try new things. We had never snowboarded before – now we have season passes! There is so much diversity in California, in all things, from food and agriculture to geography.

Bonus question: What character is Bridget in the photo?

Recently Promoted



Erlita P. Neri (Yette)
Financial Analyst

Hometown

Calapan City, Oriental Mindoro, Philippines

What will you be doing in OR?

Performing financial and strategic planning activities in support of the UC Davis Research Core Facilities Program.

What do you like to do on your time off?

I like cleaning the house, gardening, assisting my husband doing carpentry, taking our fifth-wheel for a short vacation or just doing nothing. I have a “Yette’s day” where my husband allows me to do whatever I want like having a massage, facial, pedicure, and of course shopping.

Tell us a fun fact about you:

I grew up on an island surrounded by water, but I don’t know how to swim. I can float though :)

OR Welcomes Cameron Carter

As of September 30th, Cameron Carter steps in to the role of interim vice chancellor for research. He has previously worked as a professor in the UC Department of Psychiatry and Behavioral Science and has served as the director of two UC Davis research centers. To learn more about our new vice chancellor, we decided to ask him a few questions.



What excites you most about your new role?

Learning more about the vast research enterprise at UC Davis and its positive impact on our world. And getting to know the many people who make it work.

What would we be surprised to learn about you?

I grew up in remote parts of Western Australia, in the goldfields of the Gibson Desert and in the wheat belt of the south western part of the state.

I am also a member of a group of crooning neuroscientists who karaoke at conferences around the world.

As a researcher, is there any one specific study or project outcome that you are most proud of?

My studies on frontal lobe function in health, disease, development and aging.

What is your passion outside of work? I have many interests including guitar and golf, but my chief passion is spending time with my wife and 2 sons.

What was your favorite memory as a child or young adult?

Summers on the wonderful beaches of Western Australia. Australian Christmases on the beach!

Something that someone once taught you that has become a core value of yours?

Whenever you have a chance to help or make a difference, particularly a promising junior colleague, take it!

Farewell, but not Goodbye



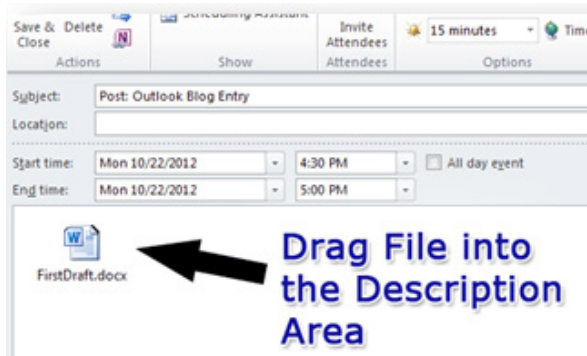
Harris Lewin says his final farewell to his role as vice chancellor for research with colleagues at an event celebrating his tenure at the ARC ballroom on September 29.

Harris will remain with UC Davis as a full-time faculty member and researcher in the Department of Evolution and Ecology and the Genome Center.

How to Redirect a Reply in Outlook

Quickly Attach Files:

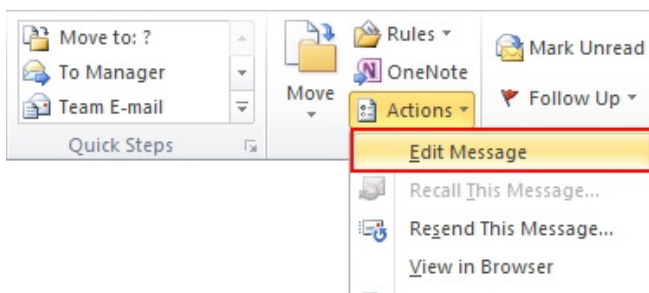
1. Attaching a file to an email message can be a fiddly process, you can streamline it and make sure you don't forget the attachment by using Outlook's filing system. Browse to the file you want to attach to a message and open Outlook at your inbox.
2. Click and drag the file from its folder onto the inbox shown in your mail folders in Outlook. This creates a new message and attaches the file in one action. Now simply address it and add a covering note.



Rename Old Emails:

Quite often, the subject line of an email bears little resemblance to its contents, especially if it's part of a longer thread that may well have started with a message simply entitled 'How are you? You can apply retrospective filing to important messages by renaming their subjects to make them easier to find.

1. Open the desired message.
2. In the message window, go to the Ribbon.
3. On the Message tab, go to the Move section.
4. Click Actions and select Edit Message.
5. Change the subject to something that represents the content.



McClellan Nuclear Research Center Virtual Tour and Demonstration

Oct. 20, 12:00pm-1:30pm
1147 Mathematical Sciences Building, UC Davis Campus
For more information and register [here](#).

Disability Awareness Symposium

Oct. 12, 12am-1pm
Multipurpose room in Student Community Center, UC Davis Campus
For more information click [here](#).

Grant Writing and Proposal Budget Drop-In Hours

Oct.19, 11:00-12:00 pm
3053 Wickson Hall, UC Davis Campus

CAMPOS Cafecitos/ Coffee Breaks

Oct. 26, 12:30-2:30
1100 "The Grove" Surge III, UC Davis Campus
For more information and registration click [here](#).



HR UPDATES

Active Recruitment

Analyst 3

Unit: IRB Administration
Apply by October 13 for full consideration.

Milestones

Christopher J. Brown

Bodega Marine Laboratory, 20 years

October Birthdays

Brandon Yung

C & M
October 2

Sheri Pulis

EAVC
October 9

Amanda Croft

B & F
October 11

Gina Melville

IA
October 11

Jun Porter

IRB
October 12

Kathryn Smith

IRB
October 12

Kassie Obelleiro

IRS
October 14

Lien Pham

SPO
October 15

Pat Bell

SPO
October 16

Whitney Cheung

IR & SI
October 22

Shanna Jose

SPO
October 22

Katherine Sohn

IRB
October 25

Julie Auger

Research Cores
October 30

Special Performance and Outstanding Teamwork Award Program

Marlene Denham

HR

George Raiford

HR

Carmen Sprow

Institutional Review Board

Jen Place

Communication & Marketing

Jinger Snyder

Sponsored Programs

Nicole Walters

Institutional Review Board

Amanda Carioggia

Institutional Review Board

Joyce Jones

Office of Corporate Relations

Kendra Smith

InnovationAccess

Arthur Caringal

IT Services

Mieko Chambers

Research Compliance & Integrity

Tim Holmes

IT Services

Aranca Duchaud

Research Unit Development

Valerie Meyers

HR

John Tang

IT Services

Awards & Proposals

Preliminary Data for 9/1/16 through 9/30/16



Top Awards

1. \$7,628,405 from the Patient-Centered Outcomes Research institute
PI: Diana Miglioretti, Med: Public Health Sciences
"Comparative effectiveness of breast cancer screening and diagnostic evaluation by extent of breast density"
2. \$6,471,924 from the Cal H&W Public Health, Department of (Cdph)
PI: Marc Schenker, Med: Public Health Services
"Information Technology Services Division ITSD"
3. \$5,895,752 from the USDI Bureau of Reclamation
PI: Tien-Chieh Hung, Biological & Ag Engineering
"Delta smelt refuge population and cultural facility renovation and expansion"

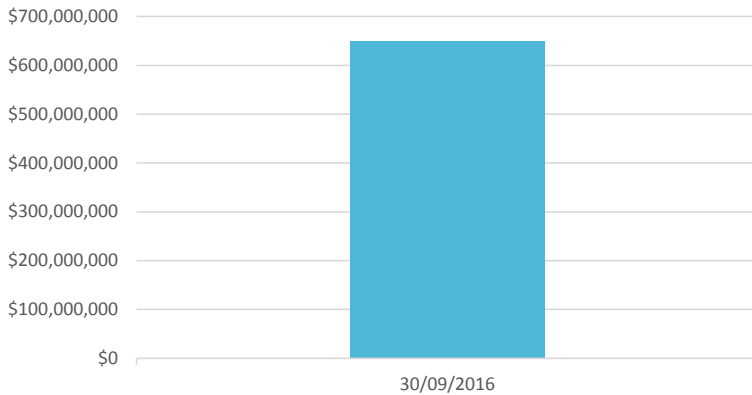
Total Amount for Proposals:

\$650,661,098

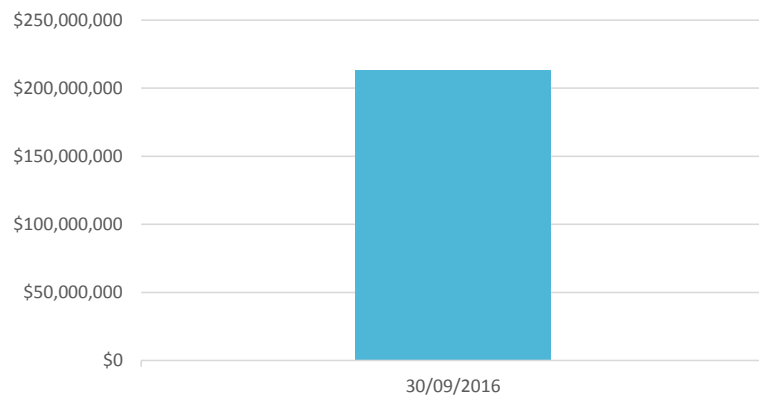
Total Amount for Awards:

\$213,168,377

Year-to-Date Proposals

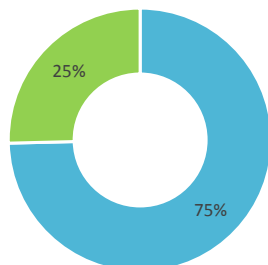


Year-to-Date Awards



Year-to-Date Proposals

■ New ■ Modified



Year-to-Date Awards

■ New ■ Modified

