

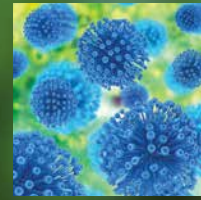
UC DAVIS

# 2016 annual report



The Jan Shrem and Maria Manetti Shrem Museum of Art grand opening celebration, 2016. Grounded in the legacy of UC Davis' world-renowned first generation art faculty, the Jan Shrem and Maria Manetti Shrem Museum of Art is a hub of creative practice for today's thinkers, makers and innovators, now and for generations to come.





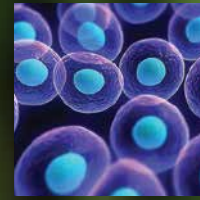
**HIV VACCINE:** An HIV vaccine, developed by UC Davis and Oregon Health Sciences University researchers, is planned for clinical trials in 2017.



**WORLD'S FIRST 1,000-PROCESSOR CHIP:** Researchers developed a chip that broke records for number of processors and clock rate.



**ABALONE RESTORATION:** UC Davis is rescuing the over-harvested white abalone from the brink of extinction.



**ONE HEALTH:** Successful stem cell treatments being tested in companion animals show promise in offering new cures to humans.



**TEACHING WITH ROBOTS:** C-STEM Studio is a new, free robotics and computing toolset for teachers to use to transform classroom learning.



**BIOENGINEERED ORGANS:** Assistant Professor Pablo Ross is experimenting with techniques for growing organs that can be transplanted to humans.



**CIRCADIAN LIGHTING:** The California Lighting Technology Center developed circadian lighting to give people a more natural interior environment.



**TOTAL BODY SCANNER:** The National Institutes of Health granted UC Davis \$15.5M to build the world's first total-body PET scanner.



**REDUCING POVERTY:** As part of an ongoing focus, UC Davis convened lawmakers and researchers to help find answers to help find answers to poverty.



**CONCUSSION DIAGNOSIS:** Coaches and team physicians will soon be able to assess athletes for possible concussions using low-cost mobile tools developed and field-tested at UC Davis.

# Innovation for your world

We all want a world where life is healthier, sustainable, safer and more enjoyable. UC Davis is helping us get there with innovations that translate to positive change around us. A breakthrough treatment, a safer food supply, a better way to learn — each has the power to improve our quality of life and give us hope. That's a world transformed.

More than 18 gardens and plant collections at the UC Davis Arboretum serve as a living laboratory for innovative teaching and research. A favorite campus destination for recreation and reflection, the arboretum is also a valued public resource for sustainable gardening.

**“Upon the subject of education, I can only say that I view it as the most important subject which we as a people can be engaged in.”**

*—Abraham Lincoln*

Our nation and people around the world have benefited from Lincoln’s broad vision that led to the creation of land-grant universities such as UC Davis when he signed the Morrill Act more than 150 years ago.

With this report, we highlight just some of the many proud accomplishments achieved by our faculty, students and staff as we work to fulfill the land-grant mission to make the world a better place for as many people as possible.

In these pages, you will also find a picture of our financial condition, which I am happy to report is strong, as well as an overview of our increasingly successful philanthropic efforts. Those efforts led to a record fundraising year in 2015–16, with plans for an even more ambitious campaign in the years ahead.

UC Davis is in an era of rapid change and transition, and can always be counted on as a beacon of innovation and discovery. We are a highly regarded institution of higher learning, committed to diversity, inclusion, freedom of expression and academic excellence that is transforming our world and lives everywhere. Whether you know our campus or not, this report shows once again some of the extraordinary breadth and depth of this outstanding public research university, and I thank you for taking the time to review it.

Sincerely,  
Ralph J. Hexter  
Interim Chancellor



# Keystatistics

## Rankings

### 1st in the world

in veterinary medicine and plant and animal sciences (QS World University Rankings 2016; *U.S. News & World Report's* "2017 Best Global Universities")

### 2nd in the nation

among top colleges for doing the most for low-income students (*The New York Times* "College Access Index" 2015)

### 4th in the world

in environment/ecology (*U.S. News & World Report's* "2016 Best Global Universities")

### 1st in the world

for campus sustainability practices (*GreenMetric World University Ranking* 2016)

### 1st in the nation/ 2nd in the world

in agriculture (QS World University Rankings 2016 and *U.S. News & World Report's* "2017 Best Global Universities")

### 10th in the nation

overall for public universities (*U.S. News & World Report's* "2017 Best Colleges Rankings")

## Financialaid

**44%** of undergraduates completing degrees in 2014–15 accrued **no debt** while at **UC Davis**. Those who graduated with debt averaged **\$19,588**; the national average was \$30,100.

During the 2015-16 academic year, **72%** of undergraduates received financial aid, averaging **\$20,370** per award.

**41%** of undergraduates received Pell Grants in 2014–15 — **more than the entire Ivy League**.

**56%** of California resident undergraduates received enough gift aid to have systemwide **tuition and fees completely covered** in 2014–15.

## Campuspopulations

### Students (FALL 2016)

UC Davis enrolled 24,667 California resident undergraduates, more than any other UC campus.

#### HEAD COUNT

**29,558** Undergraduates

**4,422** Graduate

**1,321** Professional

**1,157** Health Science

**937** Interns and residents

**37,404** Total student population

#### GPA / DEMOGRAPHICS

**4.05** Average freshman admits' GPA

**29%** Underrepresented minorities

**59%** Women

**41%** Men

### Staff and student employees

(FALL 2015)

**7,218** Staff

**8,031** Clinical staff

**15,249** Total FTE staff

**9,292** Student employees

### Faculty (FALL 2015)

**4,242** Faculty and other academic positions

### Alumni

**240,438** Living alumni with degrees

### Degrees (Awarded 2015–16)

**7,560** Bachelor's

**2,092** Graduate & Professional

**9,652** Total degrees awarded

# Building community

The \$29.8 million International Center is the new home for the Center for International Education and other international programs.

At UC Davis, we build community — a place where people from all walks of life can learn, grow and discover together. Here, diversity is celebrated and new ideas are encouraged. We know that growth in our humanity is supported by physical infrastructure that encourages expression and open dialogue. With more than a dozen major capital projects currently in construction or recently completed — including the Ann E. Pitzer Center and the Jan Shrem and Maria Manetti Shrem Museum of Art — UC Davis is investing more than \$370 million over the next five years to build a place for human and academic principles to thrive.



Maintenance workers converted more than 120 single-stall restrooms to be gender-inclusive.



To deliver critical mental health programs to students, officials hired 11 additional counselors in the Student Health and Counseling Center.



The Bike League named UC Davis the only Bicycle Friendly University and Bicycle Friendly Business in the nation, following a \$2M investment to improve roads and bike pathways.



To serve victims and build hope, the UC Davis Police Department pioneers new ways to improve community policing.



When Betty Irene Moore Hall opens in fall 2017, it will serve as the main home for the Betty Irene Moore School of Nursing and support interprofessional education for other health sciences programs.



The School of Law built a majority-minority faculty, the only one of its kind among the country's top-tier law schools.

Senior Zoë Rossman spent five months working in the African Elephant Research Unit in South Africa's Knysna Forest, recording observations on elephant behavior — including the elephant pictured here — for a conservation project.

The world benefits from our interdisciplinary collaborations, problem solving and innovations. So do our students. We're reimagining the traditional classroom learning experience, increasing leadership opportunities and investing in initiatives that address education equity. Students develop as engaged, global citizens who will improve their communities and beyond.

# Reimagining the classroom



Student interns at the Arboretum and Public Garden's Learning by Leading program help the public support a healthier, sustainable world.



UC Davis advances efforts to address educational disparities with the Center for Restorative Justice, established by alumna Maisha T. Winn and Lawrence Winn in the School of Education.



Student team Aggie Sol built and designed a zero-net energy home for farmworkers, scoring first for affordability at the U.S. Department of Energy's 2015 Solar Decathlon.



UC Davis created an augmented reality sandbox that middle school students use to learn about earth and watershed sciences.



Best practices for student achievement topped the agenda at the White House Summit on Educational Excellence for African Americans, hosted by UC Davis.



The Center for Educational Effectiveness promotes online and hybrid courses, interactive classrooms and cross-campus teaching communities to improve student learning, retention and graduation rates.



(Zoë Rossman/Zoë Tierra Photography)

Scientists uncovered how anti-inflammatory drugs like ibuprofen lead to toxic buildup of cardiac cells, and why taking vitamin C supplements can help reduce the risk.

# Research to innovation

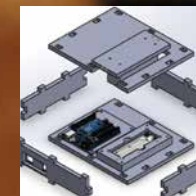
From life-saving cancer treatments to clean energy breakthroughs, research and innovation from UC Davis improves everyday life in California communities and around the world. We solve problems through an integrated approach in which engineers, scientists, researchers and healthcare practitioners collaborate to spur bold and creative solutions. While the betterment of people's lives is the inspiration for our work, the economic benefits to society are equally important. Our innovations consistently lead to cutting-edge products, high-value jobs and startups.



UC Davis produced 14 startup companies, 230 records of invention and more than \$13M in licensing revenue in 2015–16.



Gene therapy treatment developed at UC Davis shows benefits to brain cells for Alzheimer's patients.



A team of biomedical engineering students debuted a portable, durable device for assessing blood clotting in trauma patients on the battlefield.



Researchers created a video game therapy for children with cognitive impairments from genetic disorders.



Researchers are working to develop a lighter, smaller telescope to advance space exploration.

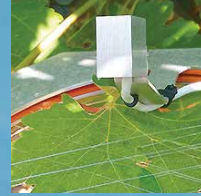




On-farm flooding in winter may be a viable solution to replenish groundwater and fight drought, based on successful early experiments by UC Davis hydrologists and growers.



Student farm volunteers address food insecurity with a glean program, delivering thousands of pounds of fresh produce to the campus pantry and local food banks.



Grape, almond and walnut growers save water and improve crop quality and yield using a wireless plant sensor with technology developed at UC Davis.



Of the nation's 24 Feed the Future Innovation Labs — a key strategy of the Global Food Security Act of 2016 — five are led by UC Davis researchers, the most of any university.



UC Davis is providing genomic data on traditional African crops to help plant breeders fight malnutrition and poverty.



# Growing a better future

As the No. 1 agricultural university in the nation, UC Davis intimately understands how food touches every living thing and what's at stake if we don't answer its challenges. Our research, innovations in ag technology and partnerships in California and around the globe — with small farmers, industry and policymakers — are helping ensure the availability and sustainability of healthy, safe food for all. In underserved communities in the United States and in developing nations, our tools and knowledge help people gain empowerment, independence and choice.

New disease-resistance testing, genetic tools and education at the Public Strawberry Breeding Program protect the quality and sustainability of California strawberries.

# Creating a healthier world

Our cross-discipline, collaborative approach to research and solving critical public health issues means we can prevent, assess, treat and heal earlier and better every day. Whether we're developing innovative techniques in fetal surgery, partnering with veterinary medicine colleagues to find effective stem cell treatments for sports injuries or sharing our expertise on the Zika virus in public forums, we're improving lives and transforming health care.

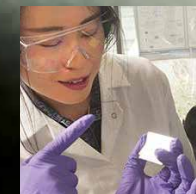
UC Davis Children's Surgery Center is one of only four level I centers in the nation — offering hope to families by delivering time-sensitive care and treatment.



A new UC Davis program aims to expand diversity in medicine and advance Latino health.



Millions with chronic pain could benefit from the discovery that endoplasmic reticulum stress is the significant driver of neuropathic pain.



Researchers discovered that gut microbes and sugar compounds found in milk can tackle childhood malnutrition and help promote growth.



Scientists launched a research project intended to help develop safe vaccines and treatments for Zika infections.



The new Center for Advancing Pain Relief, led by Dr. Scott Fishman, leverages scholars and scientists across disciplines to improve quality of life for chronic pain sufferers.

Rhesus macaques from Nepal are being studied for a noninvasive technique to capture DNA samples using strawberry jam on pieces of rope. This provides surveillance for diseases that might jump from monkeys to humans.

# One health for all

As the world leader in veterinary science, the UC Davis School of Veterinary Medicine sets the bar for education, patient care and scientific discoveries to benefit animals and humans. Increasingly aware of the One Health link between all living things, veterinary students are trained to provide excellent care for animals while recognizing the connections to human and environmental health. Faculty work together in multidisciplinary teams, dedicated to providing innovative solutions through clinical and scientific breakthroughs.



Since 2010, veterinarians from around the world — 19 countries on six continents — have sought training from our veterinary hospital.



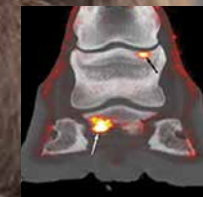
The Comparative Oncology Program links specialists and researchers in human and animal cancer.



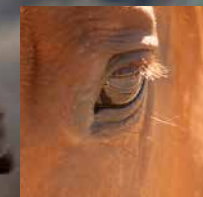
A study of calves offers hope of respiratory disease treatment for premature infants, elderly individuals and adults with compromised immune systems.



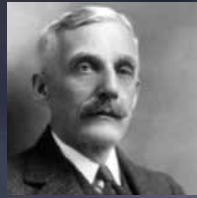
The Pastured Poultry Farm on campus provides a living laboratory where students and researchers will address issues like predator control and food safety.



UC Davis' new portable PET scanner is the first of its kind to image horses.



UC Davis equine ophthalmologists treated and returned event horse Chatwin to championship competition following a corneal laceration.



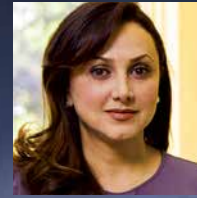
The Mellon Public Scholars Program supports community-engaged scholarship and professional development for graduate students in the arts, humanities and social sciences.



Art studio TB 9, a creative refuge for Robert Arneson, Wayne Thiebaud and other young faculty in the '60s, was added to the National Register of Historic Places.



UC Davis is one of five research universities in the U.S. participating in Pathways to the Professoriate, a new program to increase the number of Latino professors in the humanities.



A \$1.5M gift by Silicon Valley philanthropist and humanitarian Bitu Daryabari established a new presidential chair in Persian language and literature.



UC Davis will be the new home of Imagining America, a civic engagement consortium that connects scholars and community members interested in the arts, humanities and design.

Tea will join wine, coffee and beer on UC Davis' shelf of beverage expertise with the launch of the Global Tea Initiative to study tea culture and science.

Creative arts, cultural diversity, performance, writing and public scholarship: These form the core of our humanities disciplines and reflect our strength in the liberal arts. We offer nationally ranked programs that inspire incomparable work and distinct collaborations across divisions, campus and the globe. We are proud to bring the best and brightest together to create new ideas, new work and inspired solutions.

We enrich and improve life

# Energizing environmental leadership

Our history and civic responsibility as a land-grant university makes us especially mindful of the natural resources we are called to steward. We “walk the talk” by serving as a model for sustainable practices, teaching world-class environmental science programs and embracing the idea of our campus as a laboratory of innovation. Our active involvement in taking care of the planet empowers young leaders to take their knowledge and experience back to their communities. With 180 courses emphasizing sustainability, UC Davis fosters the next generation of leaders and their discoveries who will transform our world’s energy resources, transportation choices, food reliability and environmental sciences.

Young African leaders are better equipped to tackle their continent’s energy challenges after participating in a six-week energy seminar at UC Davis.



Federal agencies use UC Davis, a leader in sustainable solutions, to monitor air quality.



Powered by 23 percent renewable, carbon-free electricity, the main UC Davis campus has saved \$16M from efficiency investments — like the solar farm pictured above — since 2009.



Roughly a quarter of the fish sampled from fish markets in California and Indonesia contained trash in their guts, according to a UC Davis study.



UC Davis scientists discovered a way to conserve water in winemaking — reducing 6 gallons of water to 1, to produce 1 gallon of wine.



UC Davis researchers discovered that rat poison used on illegal marijuana grow sites are killing rare forest mammals in Central and Northern California.



The university's "\_\_\_\_\_ By Philanthropy" campaign demonstrated our donors' impact across campus.



The UC Davis Health System received \$38.5M in gifts and pledges from Ernest E. Tschannen to support the UC Davis Eye Center and the Center for Vision Science, making him the largest individual donor to UC Davis.



Alumni Michael Hurlston '88, M.B.A. '90, M.S. '91, and Joelle Hurlston '89 made a \$1.5M commitment to establish a multicollge endowed presidential chair, matched by the UC Office of the President.



The Koret Foundation granted \$1M to create Transfer STEP, a program to facilitate community college student transition to UC Davis and other UC campuses.

Professor emeritus and legendary painter Wayne Thiebaud donated paintings for display in the new Jan Shrem and Maria Manetti Shrem Museum of Art.

Thanks to the commitment of our supporters, UC Davis raised a record-breaking \$226 million, the largest donation total raised in a single fiscal year in the university's 108-year history. Private gifts and grants helped fund a variety of programs that contribute to fulfilling the university mission, including student scholarships, capital projects and scientific research. The UC Davis Foundation endowment also saw better-than-industry-average performance, according to the most recent report from the National Association of College and University Business Officers.

# Bestgivingyearyet



# Setting the pace

Leaders in competition and the classroom, UC Davis student-athletes set the pace for academic excellence, leadership, persistence and teamwork. They seek out wins in the community, too, organizing food and toy drives, participating in elementary school reading programs and visiting the Shriners Hospital for Children. Upon graduation, these campus ambassadors apply their talent, skill and tenacity to making the world a better place. As if we needed another reason to be proud.

Women's track and field won its fourth Big West title in the past five years. Men's water polo and women's swimming and diving also finished first in their conferences.



Kevin Blue joined UC Davis as the athletics director and promptly outlined and pursued new indicators of success.



For the fourth year in a row, the football team had the highest Academic Progress Rate in its conference, and men's cross country and women's water polo, tennis and golf all had perfect scores.



The community remembered legendary football coach Jim Sochor after his passing in November. He led with an "Aggie Pride" philosophy that resulted in 37 consecutive winning seasons.



In the Rio Olympics, Aggies Kim Conley (5,000-meter run) and Seth Weil (rowing) represented the United States.

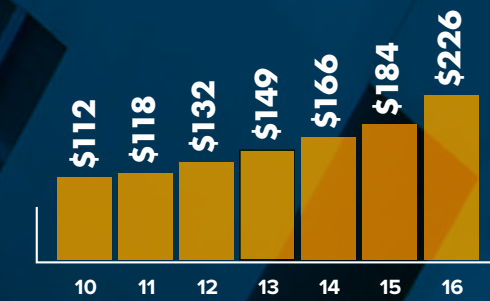
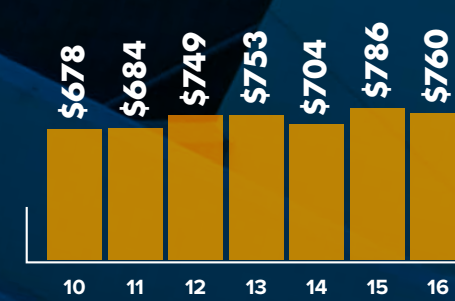
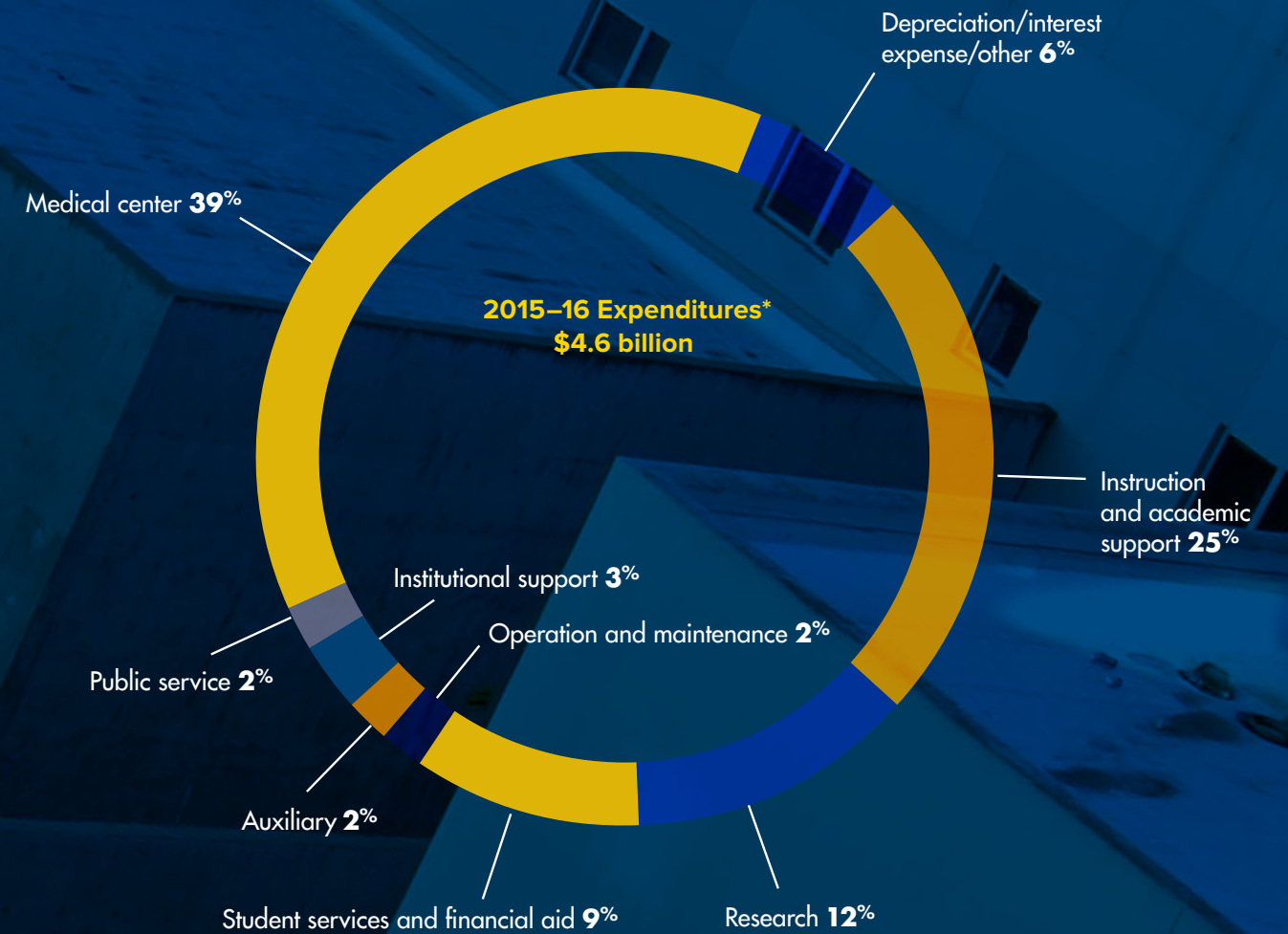
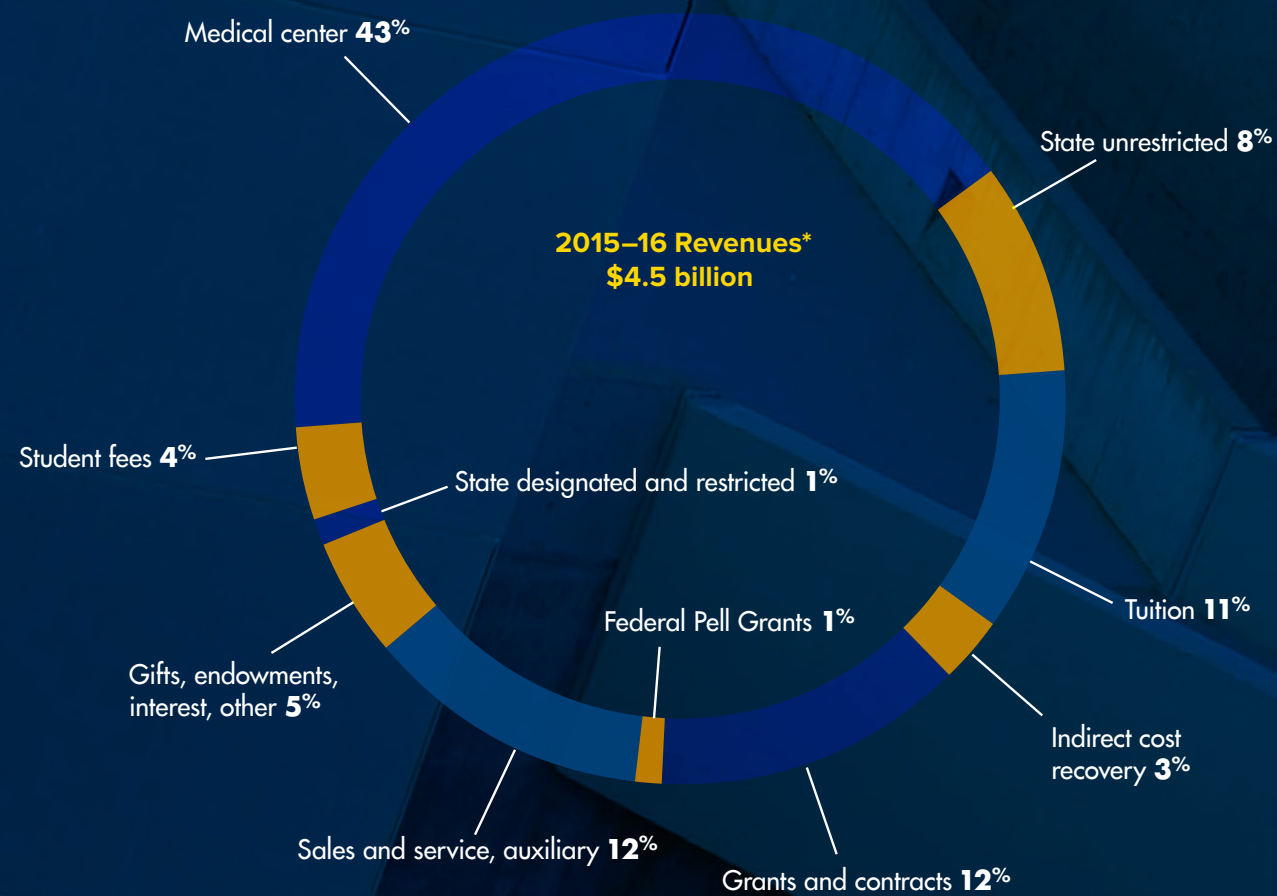


UC Davis celebrated alumnus Colby "Babe" Slater, team captain of the 1924 Olympics' last rugby championship team before the sport's return in 2016.

# Financials at a glance

## 2015–16 Revenues\* and Expenditures

UC Davis revenues come from many sources and approximately 80 percent are designated or restricted. For example, dollars related to specific purposes — such as most funding for research support, medical center revenues and proceeds from auxiliary services such as housing — must support only those operations. The primary source for the campus's teaching mission comes from unrestricted state funds and student tuition.



Extramural Research Funding  
FY 2010–16 (millions)

Philanthropy  
FY 2010–16 (millions)





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UNIVERSITY OF CALIFORNIA

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