

UC SANTA BARBARA

# Research at a Glance 2017

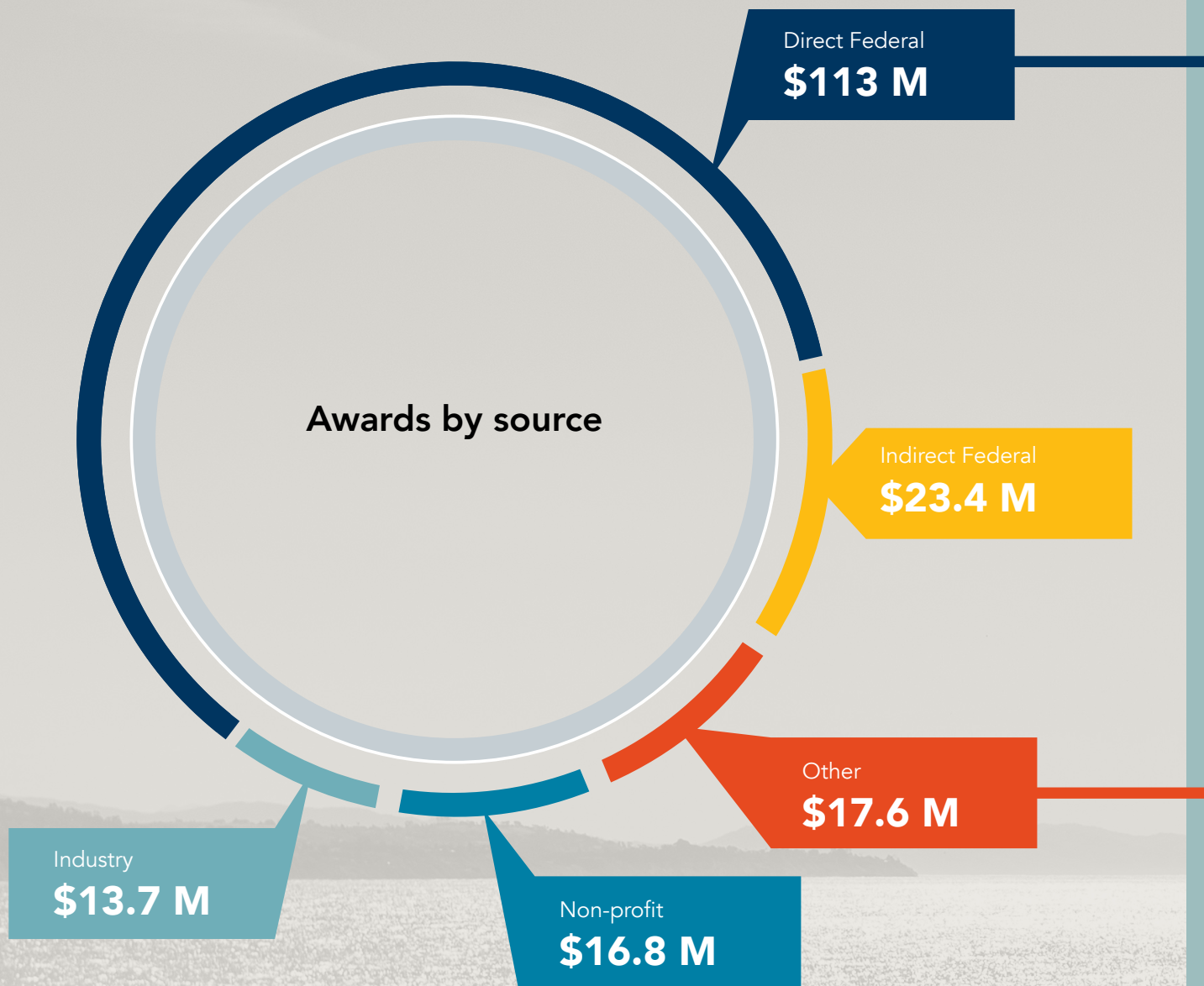
Office of Research





# \$184.5 MILLION TOTAL AWARDS

From July 1, 2016 through June 30, 2017, UC Santa Barbara received \$136.4 M in direct and indirect federal funding\*, which represents 74% of the total sponsored project awards.





NSF	\$47.7 M
DOD	\$34 M
NIH	\$17 M
ENERGY	\$5 M
OTHER	\$4.8 M
NASA	\$4.5 M

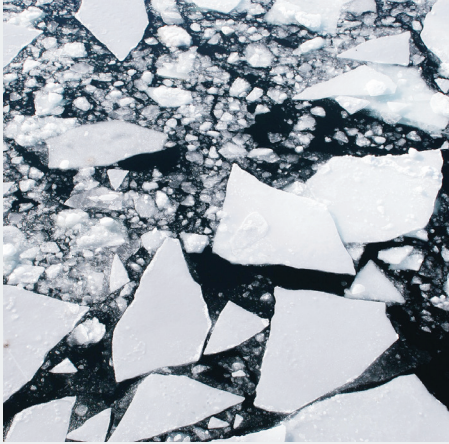
## Breakout



STATE	\$10 M
HIGHER ED	\$4.6 M
UC	\$3 M



# PROFILES IN RESEARCH



## Decline of Arctic Sea Ice

A new study by climate scientist Qinghua Ding and colleagues has found that natural variability in the atmosphere over the Arctic Ocean is responsible for causing a substantial amount of summer sea ice loss--data which may help predict future conditions in Arctic seas as climate change opens up those waters in summer.



## The Silk Industries of Medieval Paris

Drawing on the evidence of tax assessments, aristocratic account books, and guild statutes, historian Sharon Farmer explores the economic and technological contributions that Mediterranean immigrants made to medieval Parisian society, adding new perspectives to our understanding of medieval French history, luxury trade, and gendered work.



## Bridging the Internet Gap

Computer scientist Elizabeth Belding and colleagues design cutting-edge communication technologies to close the connectivity gap for disconnected Native American communities, working to develop the technology and services necessary to bring more reservation residents online, and to improve the Internet experience for rural residents behind slow connections.



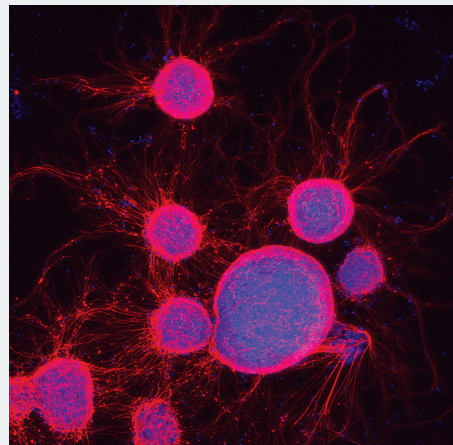
## Teacher Education Research & Improvement Network

With the 2017 UC President's Research Catalyst Award, professor of education Tine Falk Sloan leads a nine-campus consortium to research the efficacy of teacher preparation programs, create an infrastructure for statewide data collection, and serve the state through research on policy implementation.



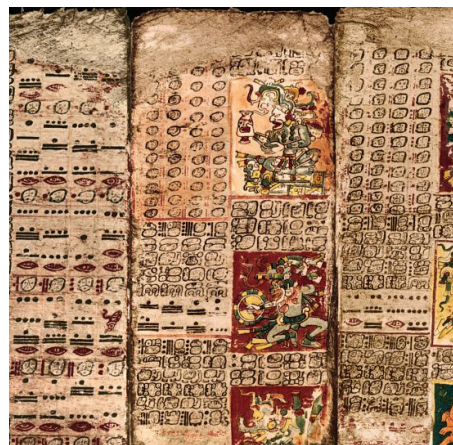
## $\mu$ Hammer

Researchers Kimberly Foster, Megan Valentine, and Adele Doyle use the world's tiniest hammer to pursue a cellular-level understanding of what happens when force is applied to brain cells, gaining fundamental new insight into the causes and progress of brain injuries due to trauma.



## Ancient Mayan Innovation

Professor Gerardo Aldana makes the case that the ancient hieroglyphic text known as the Dresden Codex Venus Table is both misunderstood and underappreciated, and represents a sophisticated innovation by the Mayans in mathematics and astronomy.



# UCSB by the Numbers

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**6 Nobel Laureates**  
since 1998



**2<sup>nd</sup> Nationally**  
in percentage of assistant professors receiving NSF CAREER awards



**1 of 62**  
institutions in the Association of American Universities



**10<sup>th</sup> in the world**  
in Leiden Ranking of university research impact



**Over 50%**  
of undergraduate students participate in research



**Over 100**  
interdisciplinary research centers and institutes



**90+**  
startups based on UCSB technology



**54% of inventions**  
from UCSB are under a licensing agreement



**1,089**  
faculty members

**Chancellor**  
Henry T. Yang

**Executive Vice Chancellor**  
David Marshall

**Vice Chancellor for Research**  
Joe Incandela