$135 million in research funding last year

Faculty this year were especially research active, submitting 1,215 proposals. Twenty-three grants received in 2017-18 exceeded $1 million to support research on myocardial healing, Latino health, and cancer, among other subjects. Here's a full list of 2017-18 grants.

New NIH Merit Award

Psychology professor Jennifer Thomas received a prestigious National Institutes of Health award to research how the nutrient choline affects development of the alcohol-exposed brain and could possibly be used to treat Fetal Alcohol Spectrum Disorder. This is the university’s fourth currently active MERIT award — a number that’s competitive with some of the most active research universities in the nation. Learn more.

New faces
Welcome Dr. Leona Flores
SDSU hired a new director of research development, who will help faculty identify and develop research, training opportunities, and team science efforts. Leona previously served as director of research development and collaboration at UCSD's Moores Cancer Center. Email Leona.

What's happening?

Lifetime achievement
Professor Sarah Mattson was awarded the Henry L. Rosett Award, the Fetal Alcohol Spectrum Disorders Study Group's highest honor, for her work on fetal alcohol exposure. Learn more.

In the community

SDSU at NASA JPL
Engineering professor Ahmad Boni Younes and John McMillan, program director for research advancement, attended a NASA Jet Propulsion Laboratory event for Minority Serving Institutions and discussed SDSU’s research capabilities, current NASA funded research, and partnership opportunities with JPL scientists.

Did you know?

New microscope
SDSU recently installed a $475,000 chemical imaging microscope that uses lasers to identify the chemical composition of a specimen. The instrument was donated by DRS Daylight Solutions. [Learn more]

Follow @SDSUResearch on Twitter

Research Spotlight

Biologist Lluvia Flores-Renteria is digitizing SDSU’s plant collection for a statewide effort, funded by the National Science Foundation, aimed at understanding how climate change affects flowering. [Read the article]
In a San Diego Union-Tribune video and article, engineering professor Natalie Mladenov discusses her research on wastewater treatment systems and sustainability. She also shared her passion for mentoring student researchers and encouraging females to pursue STEM fields. [Watch the video.]

An SDSU team’s study of Twitter posts found both robots and real human underplay the health risks associated with e-cigarettes. [Learn more]

**Recent Grants**

**Biggs, Trent**

Application of Stable Isotope Techniques to Identify Inputs from Local and Imported Water Sources in Non-Stormwater Flows from the MS4 Southern California Coastal Water Research Project

$19,971

College of Arts and Letters
Sax, Caren  
Bachelors of Arts Degree in Liberal Arts and Sciences with a Major in Interdisciplinary Studies in Three Departments  
San Diego State University  
$11,265  
College of Education

Johnson, Joseph F  
College Avenue Compact - Parent Center at Rosa Parks  
Price Philanthropies Foundation  
$313,526  
College of Education

Johnson, Joseph F  
College Avenue Compact - Rosa Parks & Monroe Clark Social Work Programs  
Price Philanthropies Foundation  
$429,850  
College of Education

Buono, Michael  
Validity and reliability of energy expenditure of a cycle ergometer  
Leidos Inc  
$55,524  
College of Health and Human Services

Tuttle, Lori  
An Innovative Rehabilitation Approach for Women with Anal Incontinence  
DHHS National Inst of Child Health and Human Development  
$517,184  
College of Health and Human Services

Hoh, Eunha  
Understanding Formation of a Critical Disinfection Byproduct  
Orange County Water District  
$25,000  
College of Health and Human Services

Penn, Tanya E  
2019 HASDIC CHNA  
Hospital Association of San Diego and Imperial Counties  
$135,330  
College of Health and Human Services

Min, Jong Won  
Driving Under the Influence Program (DUIP)  
San Diego County Alcohol and Drug Services
$2,435,199
College of Health and Human Services

Tucker-Tatlow, Jennifer
Workforce Education and Training: Training and Technical Assistance - Behavioral Health Training
San Diego County Health and Human Services Agency
$1,825,346
College of Health and Human Services

Hedin, Marshal C
Collaborative Research: Phylogenetics, hybridization and speciation in Habronattus jumping spiders (Salticidae)
National Science Foundation
$518,999
College of Sciences

Kalyuzhnaya, Marina
Intrexon Training Grant
Intrexon Corporation
$100,000
College of Sciences

Huxford, Tom
Development of Quinoxaline-Based IKKbeta Inhibitors for Kras Driven Cancers
University of Nebraska Medical Center
$52,679
College of Sciences

Stumph, William
Enzyme Regulation, Lipid and Carbohydrate Metabolism
California Metabolic Research Foundation
$80,000
College of Sciences

Roch, Marie
Using Context to Improve Marine Mammal Classification
DOD Office of Naval Research
$271,175
College of Sciences

Schellenberg, Stephen
Investing in the Future of Paleoclimate Research: U.S. Graduate Student Fellowships for the Urbino Summer Schools in Paleoclimatology
NSF Directorate of Geosciences
$27,000
College of Sciences
Johnson, Calvin  
Nuclear forces, structures, and transitions: computational studies  
US Department of Energy  
$198,000  
College of Sciences

Blashill, Aaron / Corliss, Heather / Jun, Hee-Jin  
A Brief, Peer Co-Led, Group-Based Eating Disorder Prevention Program for Sexual Minority Young Adult Men  
DHHS Nat Center on Minority Health and Health Disparities  
$67,728  
College of Sciences

Gallo, Linda  
Study of Latinos-Investigation of Neurocognitive Aging (SOL-INCA)  
University of California at San Diego  
$86,279  
College of Sciences

Moore, Eileen  
Utility of Olfactory Function Measures in Children with Prenatal Alcohol Exposure  
DHHS National Institute on Alcohol Abuse and Alcoholism  
$238,353  
College of Sciences

Thomas, Jennifer  
Fetal Alcohol Effects and Choline Intervention  
DHHS National Institute on Alcohol Abuse and Alcoholism  
$364,195  
College of Sciences

Guven, Halil / Enwemeka, Chukuka  
Georgia-SDSU: Degree Accreditation and Institutional Support Initiative for Science, Technology, Engineering and Mathematics  
Millennium Challenge Account - Georgia  
$5,176,749  
Interdisciplinary Programs

Hushen, W Timothy  
Student Support Services  
DOD Space and Naval Warfare Systems Command  
$16,147  
Graduate and Research Affairs

Hushen, W Timothy  
Student Support Services
DOD Space and Naval Warfare Systems Command
Graduate and Research Affairs

**Stow, Douglas**
Effects of Drought Stress and Forest Management on Fire Behavior and Post-Fire Forest Structure in a Western Coniferous Forest
USDA Forest Service
$44,025
College of Arts & Letters

**Kim, Minjeong**
Ethnic Movement, Economy, and Incorporation in a Border Region
National Science Foundation
$173,000
College of Arts & Letters

**Sax, Caren**
Special Education Program Monitoring and Technical Assistance
Federated States of Micronesia
$56,320
College of Education

**Wood, J. Luke**
Community College Equity Assessment Lab
California Community College Athletic Association
$40,263
College of Education

**Rieth, Sarah R**
Building Community Capacity: Evaluating a Distance Training Model for Underserved, Rural Areas
Organization for Autism Research
$29,958
College of Education

**Pumpian, Ian / Sax, Caren**
Creative Support Alternatives - Supported Living
San Diego/Imperial Counties Developmental Services Inc
$390,421
College of Education

**Pumpian, Ian / Sax, Caren**
Creative Support Alternatives- Independent Living
San Diego/Imperial Counties Developmental Services Inc
$12,020
College of Education
Pumpian, Ian / Sax, Caren
Creative Support Alternatives: Community Employment Services
San Diego/Imperial Counties Developmental Services Inc
$19,682
College of Education

Johnson, Joseph F
Equity Audit - La Mesa Spring Valley School District
La Mesa Spring Valley School District
$8,400
College of Education

Johnson, Joseph F
Sanford Institute Contract for Services
National University
$60,000
College of Education

Beyene, Asfaw
Industrial Assessment Centers
US Department of Energy
$255,792
College of Engineering

Morsi, Khaled
Processing of Fully Dense Nanocomposites through Novel Design
National Science Foundation
$16,000
College of Engineering

Buono, Michael
A Randomized, Controlled Trial Examining the Effect of Lower-Body Compression on Cycling Performance
Cosmetic Laser Dermatology
$25,000
College of Health & Human Services

Kern, Mark
Pistachios as a Recovery Food Following Rigorous Exercise in Trained Athletes
American Pistachio Growers
$125,000
College of Health & Human Services

Elder, John
Quantifying Heterogeneities in Dengue Virus Transmission Dynamics
University of California at Davis
Finlayson, Tracy
Developing an Oral Health Behavior Social Support Scale for Mexican-Origin Adults
DHHS National Institute of Dental and Craniofacial Research
$701,091
College of Health & Human Services

Kassem, Nada 0 / Hovell, Melbourne / Lui, Kung-Jong / Hoh, Eunha
Assessing Toxicity of Waterpipe Tobacco Smoking in Laboratory and Naturalistic Settings
DHHS National Institute on Drug Abuse
$451,501
College of Health & Human Services

Kiene, Susan M
Enhanced Linkage to HIV Care Following Home-Based HIV Testing in Rural Uganda
DHHS National Institute of Mental Health
$564,601
College of Health & Human Services

Quintana, PJE / Hoh, Eunha
Remediation of Tobacco Toxicants Polluting Low-Income Multiunit Housing
California Tobacco Related Disease Research Program
$300,908
College of Health & Human Services

Tucker-Tatlow, Jennifer
APS 2017-2019
California Department of Social Services
$740,172
College of Health & Human Services

Tucker-Tatlow, Jennifer
Social Worker Training
San Diego County Health and Human Services Agency
$882,827
College of Health & Human Services

Emmorey, Karen
Language, Modality and the Brain
DHHS National Inst on Deafness/Other Communication Disorders
$400,159
College of Health & Human Services

Pham, Giang T
Language-Literacy Growth in Vietnamese Children With and Without Language Impairment
DHHS National Inst on Deafness/Other Communication Disorders
$137,211
College of Health & Human Services

**Rohwer, Forest**
Bacteriophage-mediated spread of virulence factors in cystic fibrosis microbiome
Cystic Fibrosis Research Inc
$60,000
College of Sciences

**Sussman, Mark**
Regulation of Signal Transduction to Treat Heart Failure
DHHS National Institutes of Health
$376,250
College of Sciences

**Sussman, Mark / Gude, Natalie A**
Resolving Myocardial Regeneration by Tracking Commitment of C-Kit+Cells
DHHS National Heart Lung and Blood Institute
$7,525
College of Sciences

**Zink, Thomas**
Habitat Adaptive Management and Monitoring - Oak Woodlands and Gold Spotted Oak Borer, Camp Pendleton
DOD Space and Naval Warfare Systems Command
$2,492
College of Sciences

**Computer Science**
Roch, Marie
Unsupervised Learning (Clustering) of Odontocete Echolocation Clicks
DOD Office of Naval Research
$53,373
College of Sciences

**Computer Science**
Xie, Tao
CSR:Small: A File System Bypassing Volatile Main Memory: Towards a Single-Level Persistent Store Architecture
National Science Foundation
$336,873
College of Sciences

**Amir, Nader**
Behavioral and Neurobiological Mechanisms of Treatment Response in Pediatric
OCD: J. Kuckertz
DHHS National Institute of Mental Health
$480
College of Sciences

Cronan, Thereasa
SDSU ADAR Program
DHHS National Institute on Aging
$377,999
College of Sciences

Gallo, Linda
Scripps Translational Science Institute
Scripps Research Institute
$52,664
College of Sciences

Matt, Georg
Effects of Thirdhand Smoke Exposure on the Microbiome of Young Children
California Tobacco Related Disease Research Program
$180,600
College of Sciences

Moore, Eileen
Brain Maturation in Adults with FASD
DHHS National Institute on Alcohol Abuse and Alcoholism
$346,339
College of Sciences

Thoman, Dustin B
Understanding and Removing Faculty Barriers for the Adoption and Implementation of Proven Interventions
National Science Foundation
$1,103,645
College of Sciences

Weersing, Vanessa Robin / Amir, Nader
Effectiveness Trial of Cognitive Bias Modifications (CBM) for Adolescent Anxiety
Kaiser Foundation Research Institute
$258,457
College of Sciences

Fuentes-Ferreiro, Suzanna
Medical Office Assistant Training 2018
Imperial County Workforce Development Board
$76,500
Imperial Valley Campus - Academic Programs
Ayala, Guadalupe X / Castillo, Jose / Mehrabadi, Morteza M / Maloy, Stanley / Moon, Kee
Building Capacity and Infrastructure for Population Health and Health Disparities
Research at San Diego State University
DHHS National Center on Minority Health and Health Disparities
$200,000
Interdisciplinary Programs

Hushen, W Timothy
Student Support Services
DOD Space and Naval Warfare Systems Command
$16,147
Graduate and Research Affairs

Hushen, W Timothy
Student Support Services
DOD Space and Naval Warfare Systems Command
$15,283
Graduate and Research Affairs

Hushen, W Timothy
Student Support Services
DOD Space and Naval Warfare Systems Command
$22,329
Graduate and Research Affairs

Have suggestions for the newsletter? Email us.

The banner image this week is of a specimen measured at a single ultraviolet wavelength using SDSU’s new chemical imaging microscope.
research.sdsu.edu