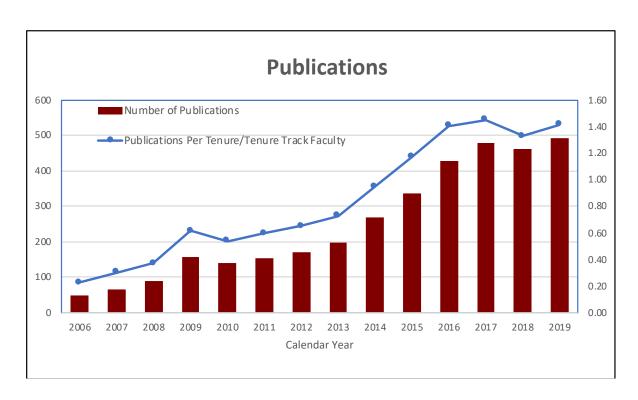
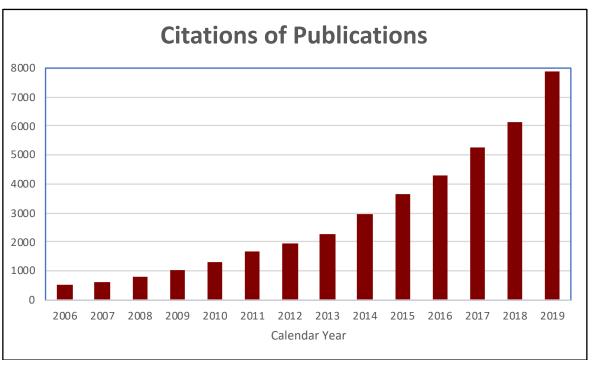


2019 - 2020

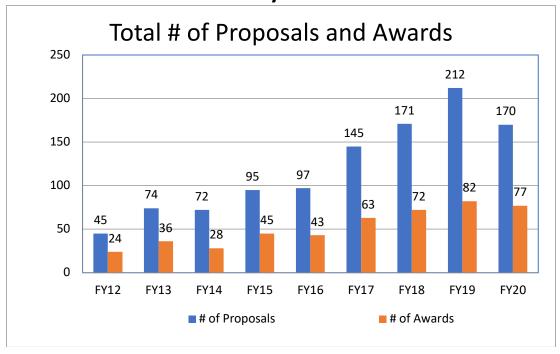
Research and Scholarship

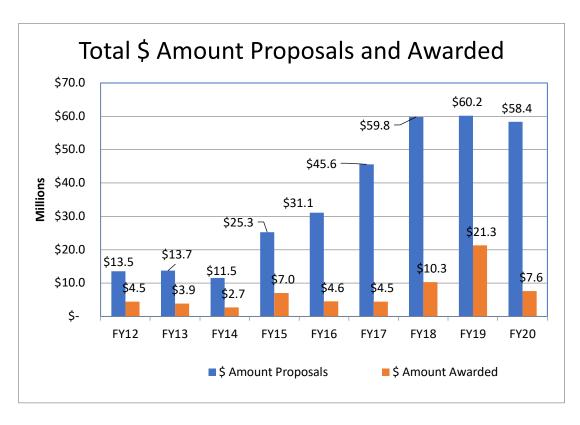




Source: Web of Science

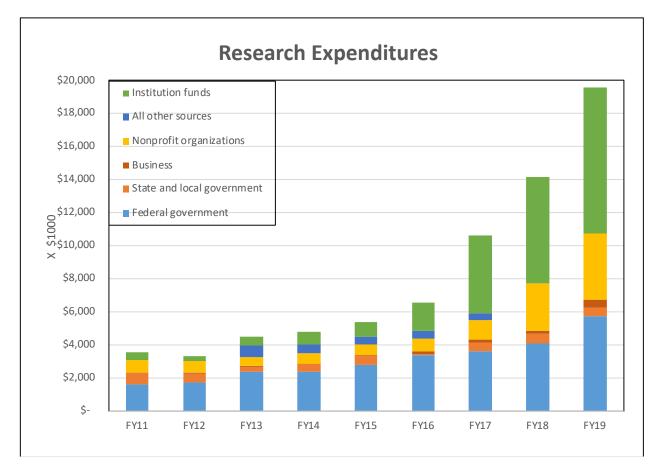
2019-2020 By the Numbers





2019-2020 By the Numbers Awards (Grants and Contracts)

Unit	Amount
Argyros School of Business	\$ 665,640
Economic Science Institute	\$ 665,460
Attallah College of Education	\$ 1,552,209
Thompson Policy Institute	\$ 1,552,209
Crean College of Health and Behavioral Sciences	\$ 1,400,619
Brain Institute	\$ 43,915
Fowler School of Law	\$ 428,779
Schmid College of Science and Technology	\$ 1,672,661
Institute for Quantum Studies	\$ 494,697
Center for Excellence in Earth Systems Modeling & Observations	\$ 38,793
School of Pharmacy	\$ 1,681,439
Wilkinson College of Arts, Humanities, and Social Sciences	\$ 119,458
Provost Office	\$ 53,000
TOTAL AWARDS	\$ 7,573,805



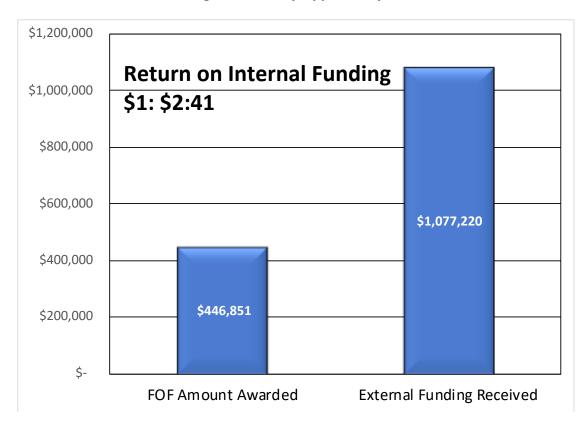
Faculty Proposals Submitted

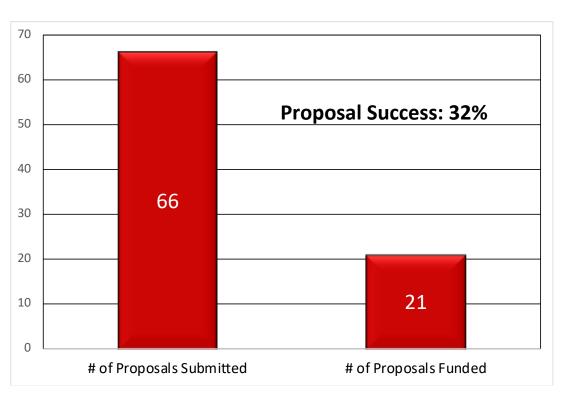
FY	# of Proposals	Dol	llars Requested	# of Faculty	Federal	Foundation/NonProfit	State/Local	Industry/Other	NSF	NIH	NEA/NEH	0-100K	100K-500K 5	00K-1M	>1M
2007	31	\$	7,303,915.00	20	14	5	2	8	8	1	1	15	5 7	1	. 2
2008	24	\$	6,268,126.00	17	10	7	5	2	4	0	0	9	9 11	2	! 1
2009	73	\$	29,398,029.00	40	45	21	2	5	17	4	3	43	3 18	6	5 5
2010	64	\$	24,365,895.00	42	44	13	4	3	16	2	1	. 33	3 19	8	3
2011	51	\$	8,872,575.00	34	33	9	3	6	17	6	1	. 32	2 13	3	0
2012	50	\$	13,522,513.00	40	28	1	4	2	11	3	3	21	1 21	3	3 2
2013	81	\$	13,724,663.00	59	46	27	2	6	13	7	8	51	L 22	4	. 2
2014	74	\$	11,508,757.00	46	45	22	3	2	11	12	8	41	L 27	4	. 0
2015	97	\$	25,026,989.00	60	58	31	0	5	12	12	6	51	1 31	8	5
2016	99	\$	31,126,813.00	63	49	37	1	8	10	15	4	50	34	8	5
2017	147	\$	36,248,314.00	79	74	51	1	14	16	27	3	83	37	12	. 12
2018	169	\$	59,834,653.00	96	N/A	N/A	N/A	N/A	24	37	3	???	27	10) 8
2019	212	\$	60,236,223.00	112	80	68	11	50	19	16	4	178	3 58	14	17
2020	170	\$	58,430,700.00	113	87	57	21	59	11	14	0	117	7 75	20	13

Faculty Awards Granted

FY	# of Awards	Total Dollars Awarded	# of Faculty	Federal	Foundation/I	State/Local	Industry/Oth	NSF	NIH	NEA/NEH	0-100K	100K-500K	500K-1M	>1M
2007	12	\$ 1,365,036	8	5	1	1	5	4	0	1	8	3	0	0
2008	14	\$ 2,148,587	11	6	4	3	1	3	0	0	8	5	1	0
2009	33	\$ 3,398,736	18	16	12	1	4	7	0	1	26	7	0	0
2010	21	\$ 1,736,686	18	12	5	2	2	3	0	0	17	4	0	0
2011	20	\$ 2,942,724	16	9	4	3	3	4	0	0	17	3	0	0
2012	24	\$ 4,473,745	24	11	10	3	0	2	0	0	13	11	2	0
2013	38	\$ 3,881,754	32	17	15	2	3	4	2	3	28	10	1	0
2014	22	\$ 2,709,559	17	12	11	2	1	2	5	0	20	7	0	0
2015	37	\$ 7,026,764	30	17	17	2	2	4	1	2	28	10	1	1
2016	28	\$ 4,661,484	28	10	16	1	4	1	3	0	25	7	1	0
2017	55	\$ 5,693,093	35	17	23	3	9	4	7	0	42	12	1	0
2018	71	\$ 10,306,350	45	35	21	5	12	4	10	0	49	20	2	1
2019	81	\$ 21,285,754	56	32	24	6	18	5	9	0	46	27	2	5
2020	77	\$ 7,573,625	52	35	22	4	19	5	9	1	58	21	1	0

Impact of Internal Funding Program (Faculty Opportunity Fund) External Funding from Faculty Opportunity Fund Awardees



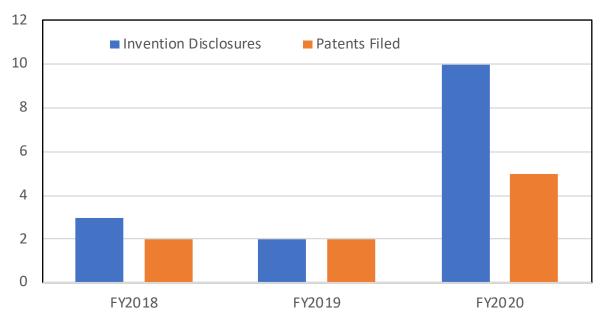


External Partnerships and Intellectual Property

Agreement Type	FY 2019	FY 2020
Non-Grant Agreements*	17 (\$3,392,903)	23 (\$1,757,311)
Non-Disclosure Agreements (NDA)/CDA	2	8
Material Transfer Agreement (MTA)	13	8
Data Use Agreement (DUA)	5	6
Other	6	6
TOTAL	43	51

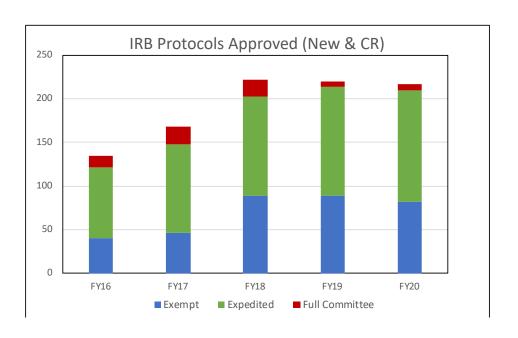
^{*}Agreements with incoming funds to Chapman (e.g. sponsored research agreements, services agreements, and subaward agreements, etc.)

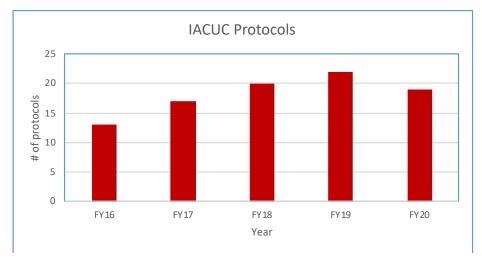
Intellectual Property

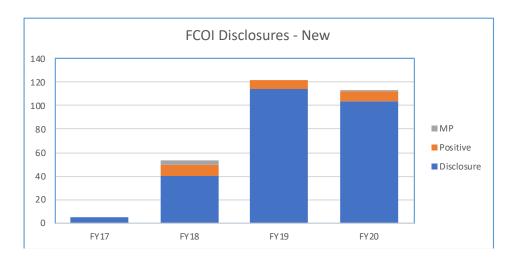


Patents Filed in FY2020

Title	Invent	ors	College/School
Detection of Pathogenic Bacteria through Antimicrobial Peptide-based Glass Fiber Filter Biosensor Platforms (Conversion to US application)	1. 2.	Kamaljit Kaur Hanieh Hossein- Nejad-Ariani	School of Pharmacy
Targeting Primary Cilia with Nanoparticles (provisional application)	1. 2.	Surya Nauli Rajasekhar Pala	School of Pharmacy
Heel Your Gait (provisional application)		Marybeth Grant- Beuttler Rahul Soangra	Crean College of Health and Behavioral Sciences
Designing Peptide/Lipid-Associated Nucleic Acids (PLANAs) for nucleic acid delivery (provisional application)	2. 3.	Hamidreza Montazeri Aliabadi Keykavous Parang Abdulaziz Alasmari Ryley Hall	School of Pharmacy
Condensed matter system with ideal diamagnetic response at room temperature (provisional application)		Armen Gulian Sara Chahid Rajendra Dulal Yasushi Kawashima Serafim Teknowijoyo	Schmid College of Science and Technology







FISCAL YEAR 19-20 AWARDS

Argyros School of Business and Economics

Economic Science Institute

Hillard Kaplan

National Institutes of Health \$ 195,568

Arizona State University: Research Supplements to Promote Diversity (AG054442-01)

Hillard Kaplan

National Institutes of Health \$382,250

Brain Atrophy, Cognitive Impairment and Alzheimer's in a Low CVD-Risk Population: Administrative Supplement for Amyloid Assay

Josef Tracy

Johns Hopkins University \$10,000

Loss-framed Contracts to Increase Productivity in Real-Effort Tasks

Bart Wilson

The International Foundation for Research in Experimental Economics \$13,819

Summer Scholars Program and High School Workshop

Bart Wilson

Thomas W. Smith Foundation \$41,456 Summer Scholars Program and High School Workshop

Abel Winn

The International Foundation for Research in Experimental Economics \$22,367

25th Annual Graduate Student Workshop in Experimental Economics

Attallah College of Educational Studies

Thompson Policy Institute

Don Cardinal

Regional Center of Orange County \$23,596 Educational Expertise to RCOC and Consult with School Districts

Jeanne Carriere

University of California Irvine \$125,000 Family and School Together

Audri Gomez

Regional Center of Orange County \$17,000 RCOC Leadership Survey

Audri Gomez

Bill and Melinda Gates Foundation \$417,230 Technical Assistance Support for California Special Education Residency Projects

Audri Gomez

Children's Hospital of Orange County \$969,383 Technical Assistance Support for California Special Education Residency Projects

Crean College of Health and Behavioral Sciences

Jason Douglas

Loyola Marymount University - UCOP \$16,664 A Community Based Approach to Tobacco Control

Susan Duff

National Institute on Disability, Independent Living, and Rehabilitation Research - Thomas Jefferson University \$11,046

Spinal Cord Injury Model Systems Program: Regional Spinal Cord Injury Center of the Delaware Valley

Susan Duff

American Physical Therapy Association \$24,763

An Individualized Multimodal Intervention for Bone and Muscle Health in Pre-Adolescents with Cerebral Palsy: Promoting Healthy Transitions into Adulthood

Laura Glynn

University of California Irvine - National Institutes of Health \$311,256

Project 3: Conte Center Project Renewal

Laura Glynn

University of California Irvine - National Institutes of Health \$483,660

Project 2: Fragmented Early-Life Experiences, Aberrant Circuit Maturation, and Emotional Vulnerabilities

Marybeth Grant-Beuttler

Children's Hospital of Orange County \$22.500

Longitudinal Assessment of Atypical TPP1 Enzyme Deficiency Patients

Tara Gruenewald

Johns Hopkins University – National Institutes of Health \$20,218

Long-term Effects of a Community-based Volunteer Trial on Lifestyle Activity and Risk for Alzheimer's Disease

Mary Kennedy

California Scottish Rite Foundation \$62,544 Scottish Rite Childhood Language Center

Jennifer Robinette

National Institutes of Health \$273,891 (\$9,583 + \$25,474 + 238,834)

Neighborhood Adversity and Sensitivity to Stress: A gene X Environment Interaction Study

Joanne Smith

National Institutes of Health

\$130,162

The Influence of Brain Organization and Postural Behavior on Progression of Back Pain Symptoms in Young Adults

Brain Institute

Uri Maoz

John E. Fetzer Memorial Trust \$43,915

Research Agreement: Book Project Funding

Fowler School of Law

Tamara Alexander

County of Riverside \$75,509 Dispute Resolution Programs Act - Riverside

Thomas Bell

Crypto Investments Ltd. \$68,300
Free Society Project

Wendy Seiden

The State Bar of California \$37,160 Equal Access Fund IOLTA Formula Grant

Wendy Seiden

OC Community Foundation \$60,000 Aitken Family Protection Clinic

Wendy Seiden

The State Bar of California \$100,000 IOLTA Fund Grant

George Willis

Internal Revenue Service \$44,100 IOLTA Fund Grant

Schmid College of Science

Douglas Fudge

National Science Foundation \$28,000

Collaborative: RUI: Biogenesis and Evolution of Hagfish Slime and Slime Glands

Douglas Fudge

ALION Science and Technology \$44,098

Douglas Fudge

Serco Inc.

\$136,862 (\$61,472 + \$75,390)

Gregory Goldsmith

Northern Arizona University – NASA \$38.807

Testing How Plant Structure and Function Will Impact WUE and Water Stress Along Tropical Forest Transition Zones

Christopher Kim

National Science Foundation

\$9,600

REU-Site: Summer Undergraduate Research Fellowships in Earth and Environmental Sciences (SURFEES)

Andrew Lyon

National Institutes of Health

\$21,965

Platelet-Like Particles for Augmenting Hemostasis

Maduka Ogba

Pomona College – National Institutes of Health

\$46,000

Sulfur-Fluorine Exchange Reactions (SuFEx) toward Nitrogen-Based Sulfur(VI) Compounds

Cedric Owens

National Science Foundation

\$1,780

RUI: Nitrogenase and Friends: Uncovering How Diazotrophs Regulate and Maintain Nitrogenase Activity Under Unfavorable Environmental Conditions

Jerry LaRue

American Chemical Society

\$2,028

Hot Electron Chemistry on Transition Metal Coated Gold Nanoparticles

Anuradha Prakash

LT Food USA

\$1,151

Spray Dryer Trial

Anuradha Prakash

Msat Consulting \$6,444 (\$1,694 + \$2,255 + \$2.495) *Msat Consulting Projects*

Anuradha Prakash

Ninth Avenue Foods \$4,295 Ninth Avenue Oat Milk and Almond Creamer

Anuradha Prakash

U.S. Department of Agriculture \$ 142,893

Irradiation as an Alternative to Methyl Bromide Fumigation and DPA treatment of 'Granny Smith' Apples

Chelsea Parlett

National Science Foundation \$46,000

Justin Dressel

National Science Foundation \$ 107,000

NSF-BSF: Efficiently Modeling Continuous Quantum Measurements of High-Dimensional Multi-Qubit

Center of Excellence in Earth Systems Modeling & Observations (CEESMO)

Emmanuel Dinnat

\$20,793 Improvement of Sea Surface Salinity Satellite Retrievals

Shenyue Jia

TreePeople

\$18,000

Developing a Map Viewer for Tree Canopy at Parcel Level for Los Angeles County

Institute for Quantum Studies

Armen Gulian

Office of Naval Research \$174.359

Systematic Search for Very High-Temp Superconductivity in Carbon-Related Compounds, Including Materials via Nonequilibrium Phase Diagram Routes

Armen Gulian

Office of Naval Research

\$59,988

Simulation and Experimental Realization of Vector-Potential Sensors by Quasilegal Superconducting Objects

Armen Gulian

Office of Naval Research

\$85,000

Simulation and Experimental Realization of Vector-Potential Sensors by Quasilegal Superconducting Objects

Armen Gulian

Office of Naval Research

\$120,000

Expansion Proposal to the ONR Grant N00014-18-1-2636: Systematic Search for Very High-Temperature Superconductivity via Nonequilibrium Phase Diagram Routes

Jeff Tollaksen

John E. Fetzer Memorial Trust

\$45,000

Phase II of IQS Project for Fetzer-Franklin Fund

Matthew Leifer

Silicon Valley Community Foundation

\$10,350

Reasoning in a Quantum World

Office of Provost

Julye Bidmead

Shinnyo-en Foundation

\$53,000

Post-Undergraduate Fellowship Program

School of Pharmacy

Craig Cheetham

Kaiser Permanente Research

(\$5,488)

Moderate Hypertension in Pregnancy (MOHIP): Safety and Effectiveness of Treatment

Craig Cheetham

Kaiser Permanente Research

\$84.380

Moderate Hypertension in Pregnancy (MOHIP): Safety and Effectiveness of Treatment

Innokentiy Maslennikov

Nitto Avecia Pharma, Inc

\$4,085

Characterization of Samples Using Nuclear Magnetic Resonance (NMR) and Other Techniques

Hamidreza Montazeri-Aliabadi

PhRMA Foundation

\$100,000

Peptide/Lipid-Associated Nucleic Acids (PLANAs) for in Vivo Delivery of Nucleic Acids

Surya Nauli

Masimo Corporation

\$170,000

Mechanical Drugs: Harnessing Cancer Aggressiveness to Overcome Its Resistance

Surya Nauli

American Heart Association \$200,000 Cilia and Aneurysms

Rennolds Ostrom

Thomas Jefferson University – National Institutes of Health \$32,534

G Protein-Coupled Receptor Regulation in Airway Myocytes

Rennolds Ostrom

National Institutes of Health

\$309,926

Molecular Signal Transduction of cAMP Compartments

Hamidreza Montazeri-Aliabadi and Keykavous Parang

AJK BioPharmaceutical LLC

\$17,250

Design and Evaluation of Peptide-Based Platforms for Oligonucleotide Delivery

Keykavous Parang and Hamidreza Montazeri-Aliabadi

AJK BioPharmaceutical LLC

\$45,369

Design and Evaluation of Peptide-Based Platforms for Oligonucleotide Delivery

Keykavous Parang

AJK BioPharmaceutical LLC \$90,738

Amendment to FE Service Agreement

Simin Rahighi

University of California Irvine \$4,000

Research Facility Use Agreement

Ajay Sharma

Akrivista LLC

\$7.955

Further Evaluation of Anti-Inflammatory Properties of Ophthalmic Formulation A1 Using Human Corneal and Conjunctival Epithelial Cells

Rakesh Tiwari

AJK Biopharmaceutical LLC

\$30,000

Design, Synthesis, and Evaluation of Antibiotic-Cyclic Peptide Conjugates Against Multidrug-Resistant Bacterial Pathogens

Rakesh Tiwari

Aingeal Therapeutics

\$31,727

Development of a Lead Cyclic-PDZ-Enhancer Drug for Anxiety and Depression

Jennifer Totonchy

National Institutes of Health

\$319,647

Identifying Susceptibility Factors for KSHV Infection in Human Tonsil

Siu-Fun Wong

Oregon Health State University \$25,000 SWOG NCORP Research Base

Siu-Fun Wong

Oregon Health and Science University \$49,316 (24,658 + \$24,658) SWOG Network Group Operations Center of the NCTN

Sun Yang

Amgen, Inc. \$165,000

School of Pharmacy Fellowship Program

Wilkinson College of Arts, Humanities, and Social Sciences

Alexander Bay

The Japan Foundation Center for Global Partnership \$49,960

Case Studies Japan: Research Trip to Japan for Interdisciplinary Scholars and Graduate Students

Charissa Threat

National Endowment for the Humanities \$ 25,200

Searching for Colored Pin-Up Girls: Race, Gender, and Sexuality during World War II

Chris Bader

Pennsylvania State University – Lily Endowment, Inc. \$19,248

Increasing the Content, Features and Outreach of the ARDA.com, 2017-2021

Lori Cox Han

American Political Science Association \$ 25,050

Presidents and Executive Politics Biannual Conference