

Award Program	FY20 Total Awarded	
Collaboration Fund	\$	234,330
Core Instrumentation	\$	866,936
Core Instrumentation - Major Awards	\$	1,461,215
Ming Hsieh	\$	1,188,000
Rose Hills	\$	375,000
Technology Advancement Grants (TAG) Stevens Center for Innovation	\$	200,000
Zumberge Diversity & Inclusion	\$	119,822
Zumberge Individual	\$	96,000
Zumberge Interdisciplinary Large	\$	170,000
Total	\$	4,711,303

Collaboration Fund - Total Awarded: \$234,330

Proposal Title	PI	Co-PI (s)
USC SensoriMotor Assessment and Rehabilitation Training in Virtual Reality Center (USC SMART-VR Center)	Sook-Lei Liew (Ostrow)	James Finley (Ostrow) Albert Rizzo (Gerontology) Judy Pa (Keck) Marientina Gotsis (Cinematic Arts) Glenn Fox (Marshall)
Metaplasticity and Megaplasticity: Changing the Brain from Synapse to Community	Giselle Petzinger (Keck)	Michael Jakowec (Keck) John van Horne (Keck) James Finley (Ostrow) David Bridell(Theater) Charles Kaplan (Social Work)
Proposal to establish an Interdisciplinary Coastal Resilience Research and Education Group	William Leach (Public Policy)	Sergey Nuzhdin (Dornsife) Travis Longcore (Architecture) Gale Sinatra (Rossier)
USC Institute for Addiction Science (Renewal)	Adam Leventhal (Keck)	John Clapp (Social Work)
Community Scholars Collaborative on Health Equity Solutions (CHES) (Renewal)	Lourdes Baezconde-Garbanati (Keck)	Charles Kaplan (Social Work)
USC Center for Mindfulness Science (Renewal)	Baruch Cahn (Keck)	David Black (Keck) Marc Weigensberg (Keck) Shawn Roll (Ostrow) George Salem (Ostrow) Jordan Davis (Social Work)
USC Transdisciplinary Collaboratory for Mobile and Connected Health (USC mHealth Collaboratory) (Renewal)	Donna Spruijt-Metz (Dornsife)	William Swartout (ICT)
Paleosciences Research Consortium at USC (Renewal)	Adam Huttenlocker (Keck)	David Bottjer (Dornsife) Sergey Nuzhdin (Dornsife) Nathan Smith NHM of LA Craig Stanford (Dornsife)
USC Law and Global Health Working Group (Renewal)	Sofia Gruskin (Keck)	Alexander Capron (Law)

Core Instrumentation - Total Awarded: \$866 936

Proposal Title	PI	Co-PI (s)
Nanodevice Preparation Instrumentation	Andrea Armani (Viterbi)	
Energy Dispersive X-ray Detector and Electron Backscatter Detector, Type A	Steven Nutt (Viterbi)	
AFM (ICON) - USC Core Instrumentation Fund	Xiaojiang Chen (Dornsife)	

Core Instrumentation - Major Awards - Total Awarded: \$1,461,215

Proposal Title	PI	Co-PI (s)
A New Multiphoton Microscope Equipped with a Resonant Scanner and Fluorescence Life Time Imaging Capabilities	Amber Miller (Dornsife) Yannis Yortsos (Viterbi)	
Helios G4 Plasma-Focused Ion Beam (PFIB) UXe	Yannis Yortsos (Viterbi)	
Imaging Mass Spectrometry: an innovative platform to advance biomarker discovery and therapeutic development	Vassilios Papadopoulos (Pharmacy)	

Ming Hsieh - Total Awarded: \$1,188,000

Proposal Title	PI	Co-PI (s)
Determining Predictors of Response to Oncolytic Virus Immune Priming	Kevin Kelly (Keck)	Peter Kuhn (Dornsife) Wendy Cozen (Keck)
Establishing a Diagnosis of Lung Cancer Through a Fluid Biopsy	Peter Kuhn (Dornsife)	Jorge Nieva (Keck)
The Geochemistry of Cancer: A New Collaborative Approach for Research and Diagnosis	Seth John (Dornsife)	Peter Kuhn (Dornsife) Jorge Nieva (Keck) Josh West (Dornsife) Will Berelson (Dornsife)
Pilot feasibility study to evaluate the immunomodulatory effects of FID-007 at two dose levels in patients with solid tumors.	Anthony El-Khoueiry (Keck)	Jacob Thomas (Keck) Stan Louie (Pharmacy) Alan Epstein (Keck)
First Small Molecule Therapy for Retinal Degenerations	Mark Humayun (Keck)	Stan Louie (Pharmacy)
In Vivo Validation of a Smart Hydrocephalus Shunt	Ellis Meng (Viterbi)	J. Gordon McComb (Keck)
Next Generation CD19 CAR-T for the treatment of lymphoid malignancies	Preet Chaudhary (Keck)	Jianming Xie (Pharmacy)
The Development of huLym-1DAPCAR-T Cells for B-cell Lymphoma Therapy	Alan Epstein (Keck)	Stan Louie (Pharmacy)

Rose Hills - Total Awarded: \$375,000

Proposal Title	PI	Co-PI (s)
Sex-dimorphic mechanisms in the regulation of inflammation during mammalian aging	Berenice Benayoun (Gerontology)	
Air pollution exposure and neurocognition in young adults from the Children's Health Study	Megan Herting (Keck)	
Transformation of Stimulant Drugs to Genotoxic Byproducts during Water Reuse and Implications for Public Health in Southern California	Daniel McCurry (Viterbi)	
Alcohol and Host Microbiome Interactions in Alcohol Consumption Behavior	Liana Asatryan (Pharmacy)	
The role of plasticity in adaptation to novel environments	Carly Kenkel (Dornsife)	

Technology Advancement Grants (TAG) Stevens Center for Innovation - Total Awarded: \$200,000

Proposal Title	PI	Co-PI (s)
Cyclotide-based polypeptides for therapeutic targeting of BAFF receptors in SLE	Julio Camarero (Pharmacy)	William Stohl (Keck)
Computational Linguistic Analysis of ScriptS (cCLASS)	Shrikanth Narayanan (Viterbi)	
Prototyping a Thermally-Regulating Paint	Michelle Povinelli (Viterbi)	
NR3B Targeting Polyamide for Inhibiting High Fat Diet Induced NASH	Bangyan Stiles (Pharmacy)	

Zumberge Diversity & Inclusion - Total Awarded: \$119,822

Proposal Title	PI	Co-PI (s)
Improving Chemotherapy Efficacy and Toxicity with Exercise in Hispanic Patients with Metastatic Colon or Rectal Cancer	Christina Dieli-Conwright (Ostrow)	
RECALC (Risk of ESRD in Chronic kidney disease and the Apolipoprotein L1 Calculator)	Eugene Lin (Keck)	Sze-Chuan Suen (Viterbi)
The Impact of Write-To-Learn Pedagogies on Diversity and Inclusion in STEM	Atia Sattar (Dornsife)	Ashley Karlin (Dornsife) Barry Thompson (Dornsife)
Training Disruptive Youth as Peer "Coaches"	Stanley Huey (Dornsife)	

Zumberge Individual - Total Awarded: \$96,000

Proposal Title	PI	Mentor
Medial septal nucleus deep brain stimulation in a glutamate hypofunction model of schizophrenia	Darrin Lee (Keck)	Steven Siegel (Keck)
Catalyst Design at the Single-Atom Limit for a Hydrogen Economy	Shaama Mallikarjun Sharada (Viterbi)	Rajiv Kalia (Dornsife)
Democratic Accountability, Congressional Hearings, and the Executive Branch	Janna King (Public Policy)	Jeffery Jenkins (Sol Price)

Zumberge Interdisciplinary Large - Total Awarded: \$170,000

Proposal Title	PI	Co-PI (s)
Establishing a Multi-Disciplinary DoE or NSF Center of Excellence for Quantum Information Sciences (QIS) at USC	Rosa Di Felice (Dornsife)	Daniel Lidar (Viterbi) Todd Brun (Viterbi) Jonathan Habif (Viterbi)
Annotating, immortalizing, and domesticating ocean biodiversity	Douglas Capone (Dornsife)	William Leach (Dornsife)