UCLA POSTDOCTORAL SCHOLARS & MENTORS AWARDS CEREMONY

UCLA California NanoSystems Institute (CNSI)

September 25, 2018

3:00 pm - 5:30 pm

HE UCLA POSTDOCTORAL SCHOLARS & MENTORS AWARDS CEREMONY recognizes the important contributions that postdoctoral scholars and their mentors make to the interrelated missions of research, teaching, and public service at UCLA.

The *Chancellor's Award for Postdoctoral Research*, established in 1998, is conferred on particularly accomplished individuals with nominees coming from virtually every discipline at UCLA -- from the basic and applied sciences to the professional schools, social sciences, and the humanities. Of the 1,314 registered postdoctoral scholars at UCLA, only 31 have been chosen as members of the select group of award nominees this year. An important criteria employed by the awards selection committee is that an individual's research accomplishments must show clear potential to have meaningful and enduring implications in their field.

In 2012, the Society of Postdoctoral Scholars (SoPS) began honoring exemplary faculty mentors in recognition of the importance of excellent mentorship for postdoctoral research success. Today, the *Postdoctoral Mentoring Award* recognizes faculty who as positive role models develop a supportive lab or work environment; collaborate on research projects; encourage confidence and creativity; foster excellent written and verbal communication skills; help establish professional networks at this campus and others; and actively support the transition from postdoctoral to independent research or other careers. Also representing various disciplines across campus, 15 faculty members have been nominated for this year's award.

We are very pleased to have you join us today as we acknowledge and honor the accomplishments and contributions of the award nominees and all postdoctoral scholars and their mentors at UCLA.

UCLA POSTDOCTORAL SCHOLARS & MENTORS AWARDS CEREMONY

Light Pre-Ceremony Refreshments
CNSI Foyer

Awards Ceremony
CNSI Auditorium

Welcome & Introductions
Robin L. Garrell, *Vice Provost for Graduate Education
and Dean, Graduate Division*

Remarks
Roger M. Wakimoto, *Vice Chancellor for Research*

Chancellor's Award for Postdoctoral Research
Robin L. Garrell
Roger M. Wakimoto

Postdoctoral Mentoring Award
Johnny Saldate, *Vice Chair, Postdoctoral Scholars Association*
Mona Moieni, *Vice Chair of Communication, Postdoctoral Scholars
Association*

Closing Remarks
Robin L. Garrell

Post-Awards Ceremony Reception
CNSI Foyer

2017/2018 CHANCELLOR'S AWARD
FOR POSTDOCTORAL RESEARCH
20TH ANNIVERSARY
● **NOMINEES** ●

ZAHRA M. AGHAJAN
Psychiatry & Biobehavioral Sciences

In conditions such as Alzheimer's, formation of spatial memories is among the first cognitive abilities that are compromised as a result of damage to the medial temporal lobe. Despite an abundant body of literature on the underlying mechanisms involved in episodic memory, little is known about memory circuitry in freely moving humans during navigation due to technological limitations. Further, there is an apparent lack of translating this knowledge to feasible therapeutic options to aid patients affected by memory impairments. However, novel neuromodulation implants and virtual reality technology, together with the use of deep brain stimulations for memory enhancement, have provided us with the unique opportunity to finally bridge this gap.

Research Mentor: Nanthia Suthana, *Psychiatry & Biobehavioral Sciences*

JONATHAN AXTELL
Chemistry and Biochemistry

Dr. Axtell has worked within the field of boron cluster chemistry in the laboratory of Professor Alexander M. Spokoyny. His contributions began with the synthesis of novel boron-based reagents and their application to new methods for boron installation in organic molecules, and have extended to the development of new boron-containing luminescent materials and methods for boron cluster functionalization. These contributions have helped reinforce the ongoing renaissance of boron cluster chemistry across chemical, materials, and biological research.

Research Mentor: Alex Spokoyny, *Chemistry and Biochemistry*

DAVIS YURI TORREJON CASTRO
Medicine

Using CRISPR-Cas9 genome editing Dr. Castron has studied resistance mechanisms to PD-1 blockade mediated by genetic changes in tumors that allowed them to avoid recognition by the immune system or become less sensitive to its attacks. These generated cell lines are key for us to figure out mechanisms of resistance to anti-PD1 and to test rationally advance combinatorial therapies to overcome the resistance.

Research Mentor: Antoni Ribas, *Medicine*

PEI CHENG
Materials Science and Engineering

Dr. Cheng and co-workers have made very high performance single-junction and tandem-junction organic photovoltaics. Both solar cells were certified by National Renewable Energy Laboratory (NREL) and two new record power conversion efficiencies were achieved. In the most recent NREL chart of "Best Research-Cell Efficiencies" (version of 07-16-2018), both of the best efficiency of "Organic cells" and "Organic tandem cells" were credited to UCLA. In addition to these high performance solar cells, Dr. Cheng and co-workers demonstrated a transparent organic photovoltaic device as a part of the dual- functional "photovoltaic roof" for both power generation and photosynthesis in greenhouses.

Research Mentor: Yang Yang, *Materials Science and Engineering*

KRISTEN R. CHOI
Nursing

Dr. Choi is a nurse researcher who studies the effects of trauma and violence on mental health, health care systems, and policy. She has prioritized interdisciplinary and interprofessional approaches, working collaboratively with colleagues from nursing, medicine, public health, psychology, and law to find solutions for children, families, nurses, and health care professionals affected by trauma and violence. She has built upon previous work to lead a UCLA team to study state-level public health firearm policy and its impact on suicide outcomes. She is leading research on the impact of mass shootings on nurses and other healthcare providers responding to such violent events; she is committed to creating needed policy to protect victims and the public, and to enhancing the effectiveness of health systems at times of crises. Informed by real-world experience as a nurse, Dr. Choi's research expertise and investment in enhancing policy has already led to meaningful contributions.

Research Mentor: Marysue V. Heilemann, *Nursing*

YINAN CUI
Mechanical and Aerospace Engineering

During Dr. Cui's time at UCLA she has made several important and outstanding contributions in developing the state-of-art multiscale and multiphysics material computational method, and disclosing the microscopic physical origins of material deformation and failure. The developed simulation method opens up a new route for effectively investigating the notorious flow localization problem in irradiated material, and raises the possibility to uncover the elastodynamics effect on defect physics under shock loading. She innovatively revealed several intriguing deformation mechanisms in the load-size-temperature-strain rate space. These works provide valuable insights in designing more resilient material that can be used under severe environments in future energy and power technologies.

Research Mentor: Nasr Ghoniem, *Mechanical and Aerospace Engineering*

ABIGAIL DICKINSON
Psychiatry & Biobehavioral Sciences

Autism spectrum disorder (ASD) is rooted in altered brain development, with diverse causal factors impacting upon neural processes. However, brain differences are difficult to measure in some portions of the ASD population, especially in those in the greatest need of research-informed interventions, including children who have low cognitive function or more severe ASD. We have developed an analytic processing pipeline which has been able to identify key differences in ASD from data collected using electroencephalography (EEG), a non-invasive brain imaging tool. These specific metrics shed light on low-level brain differences that may be significantly impacted in ASD, such as the development of structural organisation that allows for different brain regions to communicate effectively. By identifying and measuring important neural differences in ASD, we will pave the way towards using objective EEG measures to identify disrupted brain development earlier, which will inform targeted treatments that can be implemented early in life.

Research Mentor: Shafali Jeste, *Psychiatry & Biobehavioral Sciences*

MARC GARCIA-BORRAS
Chemistry and Biochemistry

Dr. Garcia-Borràs has made breakthrough discoveries about the mechanisms and functions of natural and artificial enzymes. Using a large variety of computational methods, including quantum mechanics calculations and molecular dynamics simulations, he provided detailed atomistic descriptions of the complex mechanisms of action of important classes of enzymes that were previously unknown. Dr. Garcia-Borràs characterized unprecedented enzymatic reaction mechanisms, discovering how proteins accelerate and control the selectivities of those reactions. He also discovered critical large-scale motions and conformational changes in enzymes that are essential for protein function and catalysis, and that they can be controlled by changes in the oxidation state of the different enzymatic cofactors. His work paves the way for future rational protein engineering and the design of new and better biocatalysts to be used in the large scale synthesis of drugs and materials.

Research Mentor: Kendall N. Houk, *Chemistry and Biochemistry*

SEYEDFARID GHAHARI
Civil and Environmental Engineering

Dr. Ghahari's expertise is in the field of earthquake and structural engineering. He has been working on vibration-based system identification and structural health monitoring techniques for several years. Dr. Ghahari could develop several new identification methods by which structures' characteristics are identified from their earthquake-induced response signals which are recorded by sensors. He is currently working toward implementation of vision-based techniques for continuous health assessment of infrastructures.

Research Mentor: Ertugrul Taciroglu, *Civil and Environmental Engineering*

MICHAEL HICKS
Microbiology, Immunology & Molecular Genetics

Dr. Hicks' project has centered around developing skeletal muscle cells from human pluripotent stem cells (hPSCs). These cells have remarkable potential for use in cell based therapy and modeling disease in a dish for devastating muscle diseases including Duchenne Muscular Dystrophy (DMD). He identified two novel cell surface receptors that enrich for skeletal muscle cells from hPSCs. Using these markers, he has now enabled for the first time the ability to purify and transplant muscle cells in mouse models of muscle disease. His work lays the foundation for improving our understanding of disease mechanisms as well as using cell based therapy approaches for muscle diseases including DMD.

Research Mentor: April Pyle, *Microbiology, Immunology & Molecular Genetics*

JESSICA HOLMES
Musicology

Dr. Holmes is a scholar of popular and classical contemporary music with expertise in gender, sound, voice and disability studies. Holmes's main project is a book-length project, Music at the Margins of Sense, which expands notions of the deaf community's engagement with music. Through her analysis of a range of members from the deaf sound artist, Christine Sun Kim, the musical theater group Deaf West, to hearing-aid wearers and cochlear implant recipient individuals, Holmes is able to show that "deafness," like "hearing," encompasses complex, multifaceted and contradictory physiological and socio-cultural experiences.

Research Mentor: Nina Eidsheim*, Musicology*

STEVEN J. JONAS
Pediatrics

Extraordinary new medical interventions are arising where disease-causing mutations in a patient's cells can be replaced and/or corrected directly to treat a variety of genetic diseases or to fight cancer. To accelerate the broader deployment and to improve access to these cellular gene therapies there is a critical need for rapid, safe, cost effective gene delivery and editing technologies. Dr. Jonas' research investigates engineering solutions to accomplish this task that he is testing and optimizing it so that we can make these treatments widely available to patients and their doctors soon.

Research Mentor: Paul S. Weiss*, Pediatrics*

KELSEY LAIRD
Psychiatry & Biobehavioral Sciences

Dr. Laird's research focuses on evaluating the biopsychosocial mechanisms by which mind-body practices (e.g. mindfulness meditation, yoga, tai chi) improve mental health, physical health, and cognition. In her current trial (co-designed with mentor Dr. Helen Lavretsky), she is examining biomarkers of cellular aging, molecular markers of inflammation, and

functional brain connectivity to identify possible neurobiological underpinnings by which yogic meditation affects cognitive functioning, mood and cardiovascular health in women at high risk of Alzheimer's disease. Dr. Laird hypothesizes that changes in self-regulatory capacity (autonomic, behavioral, cognitive, and emotion regulation) may account for the observed benefits of yogic meditation.

Research Mentor: Helen Lavretsky, *Psychiatry & Biobehavioral Sciences*

SHIHENG LIU
Microbiology, Immunology & Molecular Genetics

Introns are spliced out through two sequential transesterification steps catalyzed by the spliceosome, a huge RNA-protein complex made of five snRNAs (U1, U2, U4, U5, U6) and over one hundred proteins. The structural information of the spliceosomal complexes would be central to mechanistic understanding of pre-mRNA splicing. In our study, we determined the cryoEM structure of yeast U1 snRNP at 3.6 Å resolution. Our demonstration supports yeast U1 snRNP as a model for understanding how transiently associated auxiliary proteins recruit human U1 snRNP to 5'SS in alternative splicing. We also solved the cryoEM structure of yeast post-catalytic P complex at 3.3 Å resolution, which shows how the 3' ss is recognized and docked to the proximity of 5' exon, how exon ligation is catalyzed, and how the helicase Prp22 promotes 3' ss proofreading and exon release, thus filling the last major gap in our understanding of the RNA splicing cycle.

Research Mentor: Z. Hong Zhou, *Microbiology, Immunology & Molecular Genetics*

MICHAL MARSZEWSKI
Mechanical and Aerospace Engineering

Dr. Marszewski's research is interdisciplinary in nature and at the cross-road of engineering, material science, and chemistry. He is the inventor of a new method to make porous materials both thermally insulating and transparent. These new materials will be integrated in windows to increase the energy efficiency of residential and commercial buildings and reduce their carbon footprint.

Research Mentor: Laurent Pilon, *Mechanical and Aerospace Engineering*

SARAH R. MARTIN
Pediatrics

Dr. Martin examines the effects of psychosocial and physiological factors on pain in children. During her postdoctoral appointment, Dr. Martin has received acceptance into competitive training programs, disseminated her work through publications and presentations, and received a National Institutes of Health Ruth L. Kirschstein National Research Service Award Individual Postdoctoral Fellowship to study the effects of hypnosis on blood flow and pain in teens with sickle cell disease. Dr. Martin has also participated in pain policy work and first-authored a policy brief and an editorial on pediatric pain and opioids. This work has been presented to members of Congress and the head of the Department of Health and Human Services' Program to Develop a Strategy to Fight the Opioid Epidemic.

Research Mentor: Lonnie K. Zeltzer, *Pediatrics*

DUYOUNG MIN
Chemistry and Biochemistry

Proteins are gigantic molecules that supply the central machineries of life. They are remarkable macromolecules because they can adopt a unique structure. How they manage to find that structure has been a major question in biological research. Dr. Min developed methods that allowed him to investigate the folding of the most complex proteins ever examined experimentally.

Research Mentor: Jim Bowie*, Chemistry and Biochemistry*

MARUTHI KUMAR NARAYANAM
Molecular and Medical Pharmacology

Dr. Narayanam's research seeks to discover chemical reactivity that can lead to interdisciplinary solutions for the advancement of human health. We are focused on identifying and overcoming significant roadblocks in fluorine-18 chemistry that hinder the critically important molecular imaging technique of positron emission tomography (PET) from practical, routine clinical use. We aim to simplify and facilitate general access to promising PET imaging probes for examining the biology of disease, enhancing molecular diagnostic tools and advancing therapeutic developments.

Research Mentor: Jennifer M. Murphy, *Molecular and Medical Pharmacology*

THOMAS NAVARRO
Earth, Planetary and Space Sciences

Dr. Navarro is conducting breakthrough research on understanding how the atmosphere of Venus interacts with its surface to result in changes with time of the planet's rotation rate or length of day.

Research Mentor: Gerald Schubert, *Earth, Planetary and Space Sciences*

KIMBERLY PAUL
Epidemiology

Dr. Paul in an environmental and aging epidemiologist, whose research lies at the intersection of environmental, genetic, and molecular epidemiology, integrating toxicant exposure and molecular information in disease modeling. She employs several large-scale population-based cohorts to examine neurodegenerative consequences resulting from long-term low-level exposure to environmental toxicants and endocrine disrupting compounds among older adults, considering how metabolic dysfunction mediates this risk. Her most influential works include a series of reports that link organophosphate pesticides with neurotoxic pathways and neurodegeneration in a population-based setting. She has also extensively studied the genetic components of sporadic Parkinson's disease and dementia in Parkinson's. During her postdoctoral research career at UCLA, Dr. Paul has received several competitive research awards and produced numerous influential publications in high-impact journals which have contributed to public policy and pollutant regulation reports.

Research Mentor: Beate Ritz, *Epidemiology*

CALIN PLESA
Chemistry and Biochemistry

DropSynth is a simple, low-cost method to build thousands of DNA sequences (genes) in a single reaction. These gene libraries can serve as input to assays where many DNA encoded hypotheses are tested together, significantly increasing the scale at which we can make and test biological hypotheses. This approach allows us to simultaneously characterize the functionality of thousands of members of a protein family.

Research Mentor: Sriram Kosuri, *Chemistry and Biochemistry*

BREANNA PUTMAN
Ecology and Evolutionary Biology

Dr. Putman has forged a critical partnership between UCLA, the Natural History Museum of Los Angeles County, and the Greater Los Angeles community by using citizen science-collected data to understand the vulnerabilities of animals to urban development. She is studying whether and how fear of humans filters animals from urban areas. She is collaborating with researchers across the L.A. region to measure how the behaviors, physiology, and genetics of animals influence their responses to urbanization. Not only has she produced many publications during her time as a postdoc at UCLA, but her research is being directly used by urban planners in Los Angeles to improve infrastructure and restore habitats.

Research Mentor: Daniel T. Blumstein, *Ecology and Evolutionary Biology*

PRASHANT RAJBHANDARI
Pathology and Laboratory Medicine

A pathological increase in fat tissue mass is associated with obesity, type 2 diabetes and cardiovascular diseases. An attractive approach to treat these disorders would be to induce fat cells to burn rather than store calories. Dr. Rajbhandari's work has advanced our understanding of the regulatory mechanisms that control this decision to burn or store calories in fat. His discovery that the immune signaling molecule IL-10 regulates fat mass and body weight opens the door to new therapeutic strategies for metabolic diseases.

Research Mentor: Peter Tontonoz, *Pathology and Laboratory Medicine*

YAIR RIVENSON
Electrical and Computer Engineering

Using recent developments in deep learning tools, we create a new generation of imaging and sensing technologies, transforming biomedical imaging and sensing for clinical and research applications. These technologies have already shown great promise in increasing microscopic imaging throughput for plethora of devices and imaging modalities. Another outcome of the research was the demonstration of cross-modality microscopic imaging, significantly reducing risk of photo-toxicity induced to the sample, for super-resolution imaging experiments. Using similar tools, we have demonstrated a stain-free pathology slide imaging, which can be practiced with standard microscopes hardware, revealing (following digitally learnt image

transformation) the image of the tissue section that matches the same tissue section as it would have been histochemically stained. This technology could substantially change the current pathology slides diagnosis workflow. In addition, recent results have shown the ability of the framework to design all-optical neural networks and novel optical components.

Research Mentor: Aydogan Ozcan, *Electrical and Computer Engineering*

KHARAH ROSS
Psychology

Close relationships are powerful predictors of health, especially maternal-child health. Most studies focus on positive (support) or negative (conflict) relationship aspects. But my and other's work shows that by studying positive and negative aspects separately, we could be missing important, health-relevant patterns. My research focuses on how positive and negative aspects together can predict maternal-child health. My work shows that "indifferent" partner relationships (low positive/low negative) predict worse maternal health both during and after pregnancy. And that partner relationship quality during pregnancy can be "transmitted" motherto-fetus to "program" infant immune activity. Why "indifferent" partner relationships predict maternal health is not known, but the UC Health Psychology Close Relationships Collaboration that I formed and lead have identified promising causes and mechanisms. This research is important because it shows that studying only positive or negative aspects provides an incomplete understanding of how close relationships affect maternal-child health.

Research Mentor: Christine Schetter, *Psychology*

MERU SADHU
Human Genetics

Dr. Sadhu has made significant advances in the application of CRISPR to genetics research. He developed a method to speed up the discovery of genetic variants that underlie differences among individuals. He also developed a method to individually generate thousands of desired genetic edits in parallel, and track their effects. Both of these methods hold immense promise for the future of genetics research.

Research Mentor: Leonid Kruglyak, *Human Genetics*

REBECCA A. SOSA
Pathology and Laboratory Medicine

Orthotopic liver transplant is the lifesaving treatment for end stage liver disease, however its success is hampered by damage caused during the phases of ischemia then reperfusion that must occur as part of the transplant procedure. At this time, it is difficult for clinicians to assess a patient's ischemia-reperfusion injury status early post-transplant in the absence of biopsy, making it impossible to predict pre-transplant. Dr. Sosa's research focuses on the interplay between the innate and adaptive immune system in human liver transplantation with the ultimate goal of defining the role of race and ethnicity that predispose liver transplant recipients to IRI and increased risk of post-transplant acute and chronic liver allograft rejection. This research will provide critically important information for the field of transplantation

immunology as it applies to the development of new therapeutic strategies for the treatment and prevention of ischemia reperfusion injury.

Research Mentor: Elaine Reed, *Pathology and Laboratory Medicine*

VINCENT TASCHEREAU-DUMOUCHEL
Psychology

Conventional therapies for the treatment of anxiety disorders are aversive, and as a result, many patients terminate treatment prematurely. Vincent developed an unconscious method to bypass the unpleasantness in conscious exposure using functional magnetic resonance imaging neural reinforcement. Using this method, participants learn to generate brain patterns similar to the multivariate brain pattern of a feared animal. He demonstrated in a double-blind placebo-controlled experiment that neural reinforcement can lead to reliable reductions in physiological fear responses. Crucially, this intervention can be achieved completely unconsciously and without any aversive reaction. Extending our approach to other forms of psychopathologies, such as posttraumatic stress disorders, might eventually provide another means of intervention for patients currently receiving insufficient exposure treatments.

Research Mentor: Hakwan Lau, *Psychology*

CHRISTINA TERMINI
Medicine

Dr. Termini's research aims to improve the success of hematopoietic stem cell transplants, which are used in the curative treatment of the majority of patients with leukemia or lymphoma. In order for hematopoietic stem cells to effectively repopulate the blood and immune systems of the transplant recipient, the stem cells must expand and differentiate. Her research has identified the protein syndecan-2 as a regulator of hematopoietic stem cell expansion upon transplant. These findings demonstrate that syndecan-2 expressing hematopoietic stem cells can be isolated and utilized to enhance the efficacy of hematopoietic cell transplantation.

Research Mentor: John Chute, *Medicine*

NEZIH TOLGA YARDIMCI
Electrical and Computer Engineering

Dr. Yardimci has made breakthrough contributions to the advancement of terahertz science and technology. During his 15-month postdoctoral appointment, he has developed transformative terahertz imaging and spectroscopy systems with record-high signal-to-noise ratio levels by using novel terahertz sources and detectors that he developed. He has successfully utilized these terahertz imaging and spectroscopy systems for unique applications including, medical diagnosis, bio-sensing, and non-destructive quality control of industrial products. These transformative terahertz imaging and spectroscopy systems have significant impact on healthcare, security, and environmental sustainability.

Research Mentor: Mona Jarrahi, *Electrical and Computer Engineering*

GEN YIN
Electrical

Dr. Yin's postdoctoral research focuses on the theoretical and collaborative experimental investigations on the non-trivial topological phenomena in novel quantum materials. He also extensively contribute to experimental investigations, providing insights and understandings in the underlying principle. Particular effort was focused on novel topological phase transitions in various material systems such as topological insulators, magnetic skyrmions, antiferromagnetic interfaces, and the corresponding intriguing transport properties of spin and charge hosted in these systems. His research identified new physical phenomena such as topological spin Hall effect, topological exchange bias, Majorana chiral modes, and other brand new topological orders unknown before. These new findings are curial steps leading to next generation electronic and spintronic devices for different purposes, such as high-density magnetic memory, high-speed antiferromagnetic memory, dissipationless charge transport, and error-tolerant quantum computation.

Research Mentor: Kang Wang, *Electrical and Computer Engineering*

Special thanks to the *Chancellor's Award for Postdoctoral Research* selection committee:

DOUG BLACK, *Professor, Microbiology, Immunology, & Molecular Genetics*
JOHN FURNER, *Chair, Information Studies*
MIGUEL GARCIA-GARIBAY, *Dean, Physical Sciences*
ROBIN L. GARRELL, *Vice Provost, Graduate Education and Dean, Graduate Division*
DARNELL HUNT, *Dean, Social Sciences*
PAUL KREBSBACH, *Dean, School of Dentistry*
JAYATHI MURTHY, *Dean, Henry Samueli School of Engineering & Applied Science*
ALFRED OSBORNE, *Interim Dean, Anderson School of Management*
AYDOGAN OZCAN, *Associate Director, California NanoSystems Institute*
GREG PAYNE, *Director of Graduate Programs in Biosciences*
LINDA SARNA, *Dean, School of Nursing*
DAVID SCHABERG, *Dean, Humanities*
JOSEPH WATSON, *Associate Dean, Graduate Division*
WILLEKE WENDRICH, *Chair, Graduate Council*
ZUO-FENG ZHANG, *Associate Dean of Research, School of Public Health*

2017/2018 POSTDOCTORAL MENTORING AWARD
• NOMINEES •

JAMES BOWIE, *Chemistry and Biochemistry*

THOMAS CARMICHAEL, *Neurology*

BOWEN CHUNG, *Psychiatry*

NINA EIDSHEIM, *Musicology*

NASR GHONIEM, *Mechanical and Aerospace Engineering*

CHRISTOPHER GIZA, *Neurosurgery*

KENT HILL, *Microbiology, Immunology, and Molecular Genetics*

YU HUANG, *Materials Science and Engineering*

PATRICIA JOHNSON, *Microbiology, Immunology, and Molecular Genetics*

D. LEANNE JONES, *Molecular, Cellular, and Developmental Biology*

MICHAEL JUNG, *Chemistry and Biochemistry*

SEULGI MOON, *Earth, Planetary, and Space Sciences*

ALI MOSLEH, *Materials Science and Engineering*

ERTUGRUL TACIROGLU, *Civil and Environmental Engineering*

TOMMASO TREU, *Physics and Astronomy*

Special thanks to the *Postdoctoral Scholars Association* and *Postdoctoral Mentoring Award* selection committee:

NAOMI GOLDENSON, *Postdoctoral Scholar - Institute of the Environment and Sustainability*

LOK KWAN LEUNG, *Postdoctoral Scholar - Neurology*

JESSIE XIAOYA MA, *Postdoctoral Scholar - Microbiology, Immunology, and Molecular Genetics*

JEFFREY MALOY, *Postdoctoral Scholar - Life Sciences Core Curriculum*

MONA MOIENI, *Postdoctoral Scholar - Psychology*

JOHNNY SALDATE, *Postdoctoral Scholar - Head and Neck Surgery*

CHANCELLOR'S AWARD FOR
POSTDOCTORAL RESEARCH RECIPIENTS

1998

SHANNON E. DALEY, *Psychology*
BETH WELTY DREYFUSS, *Chemistry and Biochemistry*
LIAN LI, *Chemical Engineering*
FRANCISCO RAYMO, *Chemistry and Biochemistry*
ZHI-MING SHAO, *Pathology and Laboratory Medicine*

2000

FREDERICK ALLAIN, *Chemistry and Biochemistry*
MICHAEL BARTBERGER, *Chemistry and Biochemistry*
ANTHONY HEANEY, *Endocrinology*
WILLIAM MOORE, *Earth and Space Sciences*
ZOLTAN NUSSER, *Neurology*

2001

FARIN AMERSI, *Surgery*
CHARLES PATRICK COLLIER, *Chemistry and Biochemistry*
ENRICO MARCELLI, *Lewis Center for Regional Policy Studies*
PETER NEWMAN, *Sociology*
SUKRU OZTURK, *Chemical Engineering*
THOMAS THANNICKAL, *Psychiatry*
YAN ALEXANDER WANG, *Chemistry and Biochemistry*
ALICIA WEINBERGER, *Physics and Astronomy*

2002

HOOMAN ALLAYEE, *Human Genetics*
BENILLE EMMANUEL, *Art History*
ROBERT KURZBAN, *Anthropology*
IGNACIO MARTINI, *Chemistry and Biochemistry*
MATT MASON, *Physiological Science*
LISA SMITH, *Epidemiology*

2003

LORRAINE EVANGELISTA, *Nursing*
SIAVASH KURDISTANI, *Biological Chemistry*
MARYANN R. SARTIPPOUR, *Surgery*
DAVID SHERMAN, *Psychology*
HSIAN-RONG TSENG, *Chemistry and Biochemistry*

2004

JOVICA BADJIC, *Chemistry and Biochemistry*
IOSIF BENA, *Physics and Astronomy*
CHRISTOPHE CALOZ, *Electrical Engineering*
ALEX EVILEVITCH, *Chemistry and Biochemistry*
MADELINE FITZGERALD, *Near Eastern Languages and Cultures*

2005

EILEEN ANDERSON-FYE, *Psychiatry and Biobehavioral Science*
OZDAL BOYRAZ, *Electrical Engineering*
DANIEL CREMERS, *Computer Science*
KATHRIN MICHELSEN, *Human and Molecular Development*
AARON WHEELER, *Chemistry and Biochemistry*

2006

ADAM ARON, *Psychology*
THOMAS CUBAUD, *Chemistry and Biochemistry*
ENDAWOKE KASSIE, I*GPP*
GANG LI, *Materials Science and Engineering*
WEIDONG LI, *Neurobiology*

2007

NAOMI EISENBERGER, *Psychoneuroimmunology*
SASAN FATHPOUR, *Electrical Engineering*
JENS GROTH, *Computer Science*
RIKI KAWAGUCHI, *Physiology*
XIAOYU ZHANG, *Molecular, Cell and Developmental Biology*

2008

GRÉGOIRE COURTINES, *Physiological Science*
TRACY R. DANIELS, SURGERY, *Oncology*
NATE KORNELL, *Psychology*
CLAUDE LEGAULT, *Chemistry and Biochemistry*
PHILIP T. LIU, *Dermatology*
DANIEL ROY SOLI, *Electrical Engineering*

2009

JESSE L. CLARK, *Medicine*
JEROME DARBUN, *Mathematics*
EILEEN LUEDERS, *Neurology*
SUNG KYU SEO, *Electrical Engineering*
RUPA SRIDHARAN, *Biological Chemistry*

2010

LAURA B. ALLEN, *Pediatrics, Anesthesiology, and Psychiatry & Biobehavioral Sciences*
ARTHUR E. BRAGG, *Chemistry and Biochemistry*
YOUNGJAE CHUN, *Mechanical and Aerospace Engineering*
KEISUKE GODA, *Electrical Engineering*
FRANCISCO J. SÁNCHEZ, *Human Genetics*
ELAINE A. SULLIVAN, *Near Eastern Languages and Cultures*

2011

WAHEB BISHARA, *Electrical Engineering*
SHELLEY A. CLARIDGE, *California NanoSystems Institute*
SARAH FRANKLIN, *Anesthesiology*
XUE HUA, *Neurology*
KATE BASIA WOLITZKY-TAYLOR, *Psychology*

2012

BUHM HAN, *Computer Science*
WANJUN JIANG, *Electrical Engineering*
PENG LIU, *Chemistry and Biochemistry*
MIRJAM SCHENK, *Dermatology*
HILKE SCHLICHTING, *Earth and Space Science*
DAVID T. UMINSKY, *Mathematics*

2013

ARAM CHUNG, *Bioengineering*
ERIC DIEBOLD, *Electrical Engineering*
JENNIFER HAHN-HOLBROOK, *Psychology and the Institute for Society & Genetics*
JIANSEN JANG *Chemistry & Biochemistry*
PAUL MATHEWS, *Neurobiology*
EDWARD MIRACCO, *Chemistry & Biochemistry*
FLORENCE ROUSSOTTE, *Neurology*
CRAIG SCHROEDER, *Mathematics*

2014

MOHAMMAD H. ASGHARI, *Electrical Engineering*
COLIN HOLBROOK, *Anthropology and Center for Behavior, Evolution, and Culture*
EMMANUEL BRUNO JEAN-FRANCOIS, *French & Francophone Studies*
YONG LIANG, *Chemistry & Biochemistry*
TANYA STOYANOVA, *Microbiology, Immunology & Molecular Genetics*
XIAOPING TONG, *Neurobiology*
NICOLE VALENZUELA, *Pathology & Laboratory Medicine*
CARMEN WARREN, *Molecular, Cell & Developmental Biology*
HUANPING ZHOU, *Materials Science and Engineering*

2015

ALEXANDER AFANASYEV, *Computer Science*
MIEKE EECKHAUT, *California Center for Population Research*
PENG GE, *Microbiology, Immunology & Molecular Genetics*
COLIN YU-HONG LAM, *Chemistry and Biochemistry*
DONG-KEUN LEE, *Oral Biology and Medicine*
BENJAMIN A. TABAK, *Psychology*

2016

ZEYAN LIEW, *Epidemiology*
JOSEPH F. MCGUIRE, *Psychiatry*
KANG YANG, *Geography*
YONGSOO YANG, *Physics and Astronomy*

POSTDOCTORAL MENTORING
AWARD RECIPIENTS

2012

JAMES BOWIE, *Chemistry and Biochemistry*
MARK COHEN, *Neuroscience*
KELSEY MARTIN, *Biological Chemistry*

2013

DOUGLAS L. BLACK, *Microbiology, Immunology, Molecular Genetics*
KENDALL N. HOUK, *Chemistry and Biochemistry*

2014

MICHELLE CRASKE, *Psychology*
LUISA IRUELA-ARISPE, *Molecular, Cell, and Developmental Biology*

2015

AYDOGAN OZCAN, *Electrical Engineering*

2016

MICHAEL F. GREEN, *Psychiatry*
EDYTHE D. LONDON, *Psychiatry and Biobehavioral Sciences; Molecular and Medical Pharmacology*
RICHARD WIRZ, *Mechanical and Aerospace Engineering*