

UC SAN DIEGO 30TH ANNUAL



**UNDERGRADUATE
RESEARCH
CONFERENCE**

**APRIL 22, 2017
8:00AM - 4:00PM
THE FACULTY CLUB**

URC.UCSD.EDU

**Sponsored by Student Affairs,
the Office of Research Affairs, and
Academic Enrichment Programs**

2017 UCSD Undergraduate Library Research Prize

If your student presented at the URC and used any of the Library's resources (including Online resources), he or she is eligible to be nominated for the Undergraduate Library Research Prize.

Prizes will be given to four winners:

Life Sciences/Physical Sciences: First prize: \$1,000, Second prize: \$500

Social Sciences/Arts/Humanities: First prize: \$1,000, Second prize: \$500

To be eligible for the prize, students must:

1. Participate in one of the following UC San Diego programs: a. Faculty Mentor Program b. Summer Research Program c. Undergraduate Research Conference
2. Receive a faculty nomination
3. Submit supporting documentation by May 8, 2017.

For more information and to nominate a student:
<https://library.ucsd.edu/about/undergraduate-research-prize/index.html>

30TH ANNUAL UC SAN DIEGO

UNDERGRADUATE RESEARCH CONFERENCE (URC)

April 22, 2017

UC San Diego's Undergraduate Research Conference supports the engagement of undergraduate students in scholarly research. Academic Enrichment Programs (AEP), a division of Student Affairs, coordinates the URC with support from the Vice Chancellor of Student Affairs and the Office of Research Affairs. AEP has a primary goal of encouraging and supporting undergraduate students in the pursuit of academic advancement and success in their post-baccalaureate endeavors. The URC is a campus-wide recognition of undergraduate research in all fields and encourages increased opportunities for creativity and the intellectual recognition of undergraduate students. Participation in the URC is by nomination only; a faculty member must judge a student's work to be outstanding.

Nominated students who wish to participate are required to register for the conference. The conference is a student panel format, guided by a faculty moderator. Panels run concurrently during morning and afternoon sessions in the Faculty Club. Each panel consists of a maximum of eight presentations and between five and eleven undergraduates. Some students have conducted research in collaboration, thus there are several group presentations. Individual presenters receive 15-minutes to discuss their research and group presenters receive 20-minutes.

Both individuals and groups receive 5-minutes for questions and answers. After all presentations are complete, there is additional time for group discussion. When students are not on a panel, they may attend the panel of their choice as an audience member. The URC allows students to discuss their research with faculty and one another. Each student will receive a certificate to commemorate their experience.

The URC is possible because of support from the Vice Chancellor of Student Affairs, Dr. Juan Gonzalez and Vice Chancellor of the Office of Research Affairs, Dr. Sandra Brown. Biological and Physical Science Panels were created by AEP staff members, Dr. Sophia Tsai and Dr. Thomas Brown. Conference coordinator Jessica Davis created all other panels. The URC would not be possible without the entire AEP staff and student workers. AEP gives a special thanks to Ms. Kathie Landis at the Faculty Club, and to our faculty moderators.

30th Annual



Saturday, April 22, 2017

- 8:00 a.m. **Registration** • Faculty Club Lobby
Breakfast • Courtyard
- 8:30 a.m. **Welcoming Remarks** • Faculty Club Dining Room
Dr. David Artis, Dean of Undergraduate Research Initiatives
Dr. Sandra Brown, Vice Chancellor of Research Affairs
Dr. Adam Burgasser, Professor of Physics
Dr. Jeff Orgera, Assistant Vice Chancellor of Student Retention and Success
- 9:00 a.m. **Morning Panels**
- 11:45 a.m. **Lunch** • Faculty Club Courtyard
- 1:00 p.m. **Afternoon Panels**
- 3:45 p.m. **Closing Remarks** • Faculty Club Dining Room
Dr. David Artis, Dean of Undergraduate Research Initiatives
Dominique Turnbow, Library Research Prize
Dr. Olivia Graeve, Professor of Mechanical and Aerospace Engineering
Presentation of Certificates
Group Photograph
- 4:00 p.m. **Conference End**

Panel		Session	Room
1	Psychiatry, Psychology, and Cognitive Science	Morning	Faculty Club 1 & 2
2	Mechanical and Materials Engineering	Morning	Faculty Club 3
3	Engineering	Morning	Faculty Club 4 & 5
4	Physiology and Circadian Rhythms	Morning	Faculty Club 6
5	Education and Communication	Morning	Seuss Library
6	Gene Expression	Morning	Atkinson Pavilion
7	Infectious Disease	Morning	Lounge
8	Economics and Evolution	Morning	Terrace
9	Cellular Signaling and Neurobiology	Afternoon	Faculty Club 1 & 2
10	Ecology, Behavior, and Evolution	Afternoon	Faculty Club 3
11	Anthropology, Public Health, and Sociology	Afternoon	Faculty Club 4 & 5
12	Chemistry and Physics	Afternoon	Faculty Club 6
13	Immunology and Inflammation	Afternoon	Seuss Library
14	Arts and Identities	Afternoon	Atkinson Pavilion
15	Molecular Biology	Afternoon	Lounge
16	Psychiatry and Psychology	Afternoon	Terrace

Panel #1: Psychiatry, Psychology, and Cognitive Science

Morning

Room: Faculty Club 1 & 2

Moderator: Dr. Jorge Urresti

Kaushika Vayyala, Revelle College

Nominated by Dr. Lilia M. Iakoucheva, Associate Professor, Psychiatry

Investigating the impact of possibly pathogenic mutations on GAT1 function

Omron Hassan, John Muir College

Nominated by Susan Powell, Associate Adjunct Professor, Psychiatry

5-HT2AR Agonists May Cause an Impairment in Probabilistic Reversal Learning in Mice

Isabel Asp, Revelle College

Nominated by Timothy Brady PhD, Assistant Professor, Psychology

Effect of Meaningful Stimuli on Visual Working Memory

Annalise Miner, Eleanor Roosevelt College

Nominated by Timothy Brady PhD, Assistant Professor, Psychology

Fidelity of Color Vision Memory in Working Memory vs. Long-Term Memory

Robert Walter, Eleanor Roosevelt College

Nominated by Timothy Brady PhD, Assistant Professor, Psychology

Proactive interference in visual working memory

Anna Castiglione, Eleanor Roosevelt College

Nominated by Adam Aron, Professor, Psychology

The Meeting of Action Stopping and Memory Suppression: Does No-Think recruit the same stopping signature as the stop signal task?

Taylor Harman, Revelle College

Nominated by Amy Non, PhD MA, Anthropology

Children of Hispanic Immigrants Collaborating to Overcome Stress (CHICOS)

Panel #2: Mechanical and Materials Engineering

Morning

Room: Faculty Club 3

Moderator: Peng Chen

Yueqi Wang, Sixth College

Nominated by Michael Tolley, Assistant Professor, Mechanical and Aerospace Engineering

Differential Pressure Control of 3D Printed Soft Fluidic Actuators

Marissa Miramontes, Revelle College

Nominated by Dr. Juan Carlos del Álamo, Associate Professor, Mechanical and Aerospace Engineering

Assessment of Intraventricular Flow Patterns in Patients with a Left Ventricular Assist Device

Esmeralda Ochoa, Earl Warren College

Nominated by Michael Tolley, Assistant Professor, Mechanical and Aerospace Engineering

Variable Stiffness Actuation using Pouch Actuators and Layer Jamming

Joseph Wong, Earl Warren College

Nominated by Kesong Yang, Assistant Professor, NanoEngineering

Analyzing the Role of Point Defects and Grain Boundary Properties in Hybrid and Inorganic Perovskites

Eden Aklile, Thurgood Marshall College

Nominated by Darren Lipomi, Professor, NanoEngineering

Graphene-Metal Composite Sensors with Near-Zero Temperature Coefficient of Resistance

Liban Jibril, Revelle College

Nominated by Darren Lipomi, Professor, NanoEngineering

Fabrication of a Gold Nanowire Strain sensor by Nanoskiving

Mohammad Alkhadra, Revelle College

Nominated by Darren Lipomi, Professor, NanoEngineering

Measuring the Glass Transition Temperature of Conjugated Polymer Films with UV-vis Spectroscopy

Zichen Zhang, Earl Warren College

Nominated by Prabhakar R. Bandaru, PhD, Mechanical and Aerospace Engineering

Light induced actuation

Panel #3: Engineering
Morning
Room: Faculty Club 4 & 5
Moderator: Dr. Tom Murphy

Lu Xu, Sixth College

Nominated by Tse Nga Ng (Tina Ng), Professor, Electrical and Computer Engineering

Flexible IR Photodetector array

Yan Gong, Thurgood Marshall College

Nominated by Truong Nguyen, Professor, Electrical and Computer Engineering

Nighttime image/video enhancement

Yan Liang, John Muir College

Nominated by Thomas Murphy, Professor, Physics

Algorithmic correction to the lunar laser ranging timing measurements in APOLLO

Neeki Ashari, Revelle College

Nominated by Dr. Alan R. Hargens, Orthopaedic Surgery, School of Medicine

Lower Body Negative Pressure Countermeasure Suit for Spaceflight

Hasan Abu-Amara, John Muir College

Nominated by Nuno Bandeira, PhD, Computer Science and Engineering

General Methods for the Identification of Species and Tissue Information in Mass Spectrometry

Nan Jiang, Earl Warren College

Nominated by Truong Nguyen, Professor, Electrical and Computer Engineering

Rubik's Cube AR Solving Assistant

Maria Fonseca, Earl Warren College

Manasa Muralidharan

Nominated by Jan Kleissl, Professor, Mechanical and Aerospace Engineering

Impact of Solar Rooftop on Building Energy Use

Heitor Schueroff, Sixth College

Nominated by Sarah N. Giddings, Assistant Professor, Integrated Oceanography, Scripps Institution of Oceanography

FlowWeaver – an interactive particle tracking visualization tool

Panel #4: Physiology and Circadian Rhythms

Morning

Room: Faculty Club 6

Moderator: Dr. Philip Gordts

McKenna Sinkovich, John Muir College

Nominated by Dr. Pamela Mellon, Reproductive Medicine

Circadian Rhythms and the Growth Hormone Axis

Jenny Lee, Sixth College

Nominated by Dr. Susan Golden, Molecular Biology

The Role of Cyclic di-AMP in *Synechococcus elongatus*

Briana McKnight, Eleanor Roosevelt College

Nominated by Dr. Susan Golden, Biological Sciences

Elucidating the Mechanism of KaiC Localization in *Synechococcus elongatus*

Alma Fregoso, John Muir College

Nominated by Pam Taub, MD, Associate Professor, Medicine

The impact of time-restricted feeding (TRF) improving the health of patients with metabolic syndrome

Jessica Fischman, Sixth College

Fane He, Sixth College

Nominated by Dr. Alan R. Hargens, Orthopaedic Surgery, School of Medicine

Effects of Resistance Exercise on Intracranial Pressure

Norah Al-Azzam, Earl Warren College

Nominated by Dr. Philip Gordts, Cellular and Molecular Medicine

The role of adipose tissue heparan sulfate and its affect on adipose tissuse biology-application of MPS IIIa model

Alfredo Lucas, Earl Warren College

Nominated by Pedro Cabrales, PhD, Bioengineering

Determination of Red Blood Cell Wall Shear Stress Using Image Processing Techniques

Quynh Do, John Muir College

Zulfar Ghulam-Jelani, Earl Warren College

Nominated by Dr. Suckjoon Jun, Physics

Control of growth physiology and cell size in *Bacillus subtilis*

Panel #5: Education and Communication

Morning

Room: Seuss Library

Moderator: Dr. Luz Chung

Jody Tai, John Muir College

Wilson Tan, Marshall College

Nominated by Dr. Madeleine Picciotto, Basic Writing

A Reality Check on Comprehension Checks: Alternative Strategies for Writing Tutorials

Erick Ramirez, John Muir College

Nominated by Amy Binder, Professor, Sociology

Doubly Institutional Disadvantage: Navigating Higher Education as a Low-income Transfer and Non-Transfer Student

Angelica Gutierrez, John Muir College

Nominated by Luz Chung, Ed.D., Education Studies

Limitations of Access to Higher Education

Benyam Alemu, Eleanor Roosevelt College

Nominated by Luz Chung, Ed.D., Education Studies

Student-driven Program Design: Collaboratively Linking Higher Ed to K-12 Practitioners

Jacobzen Chang, Earl Warren College

Nominated by Dr. Harry Simón Salazar, Communication

Different Factors that affect Power Dynamics In Collaborative Learning

Nima Keyvan, Eleanor Roosevelt College

Kevin Johnson

Nominated by Luz Chung, Ed.D., Education Studies

Best Practices for College Mentors

Brianna Castillo

Nominated by Dr. Harry Simón Salazar, Communication

Does the After School Site have an Impact?

Austin German, John Muir College

Nominated by Dr. John Haviland, Anthropology

Nouns, Verbs and Gaze in an Emerging Sign Language

Panel #6: Gene Expression

Morning

Room: Atkinson Pavilion

Moderator: Dr. Elaine Tanaka

Brenda Delgado, John Muir College

Nominated by Christina Jamieson, PhD, Urology

The role of neuroendocrine markers, Chromogranin A and Synaptophysin expression in the bone microenvironment in Metastatic Prostate Cancer

Shannon Laub, Earl Warren College

Rinoka Sato, Earl Warren College

Nominated by Yingxiao Wang, Professor, Bioengineering

Epigenetic Changes due to Drug Resistant Pancreatic Ductal Adenocarcinoma and Related Analysis Using Fluocell Software Package

Miguel Alcantar, Earl Warren College

Nominated by Alon Goren, Assistant Professor, Medicine

Preservation of the Epigenetic Landscape during Mitosis

Yuanhao Qu, Earl Warren College

Nominated by Weg M. Ongkeko, MD, PhD, Surgery

HPV status is associated with a novel panel of PIWI-interacting RNAs in head and neck squamous cell carcinoma(HNSCC)

Kevin Chau, Eleanor Roosevelt College

Jasmine Lai, Thurgood Marshall College

Nominated by Dr. Lilia M. Iakoucheva, Associate Professor, Psychiatry

Impact of mutations on splicing isoform networks in Autism

Cindy Sou, Eleanor Roosevelt College

Nominated by Dr. Suckjoon Jun, Physics

CRISPR regulated gene knockdowns

Vineet Tummala, Revelle College

Nominated by Philip Gordts, MS, PhD, Medicine, Division of Endocrinology and Metabolism

Impact of APOE on Heart Disease

Danielle Burner, Sixth College

Nominated by Christina Jamieson, PhD, Urology

A Red/Far-Red Optical Switch System for Localized Inhibition of WNT5a in Bone Metastatic Prostate Cancer

Panel #7: Infectious Disease

Morning

Room: Lounge

Moderator: Dr Sabine Otilie

Lily Hye Jee Hahn, Revelle College

Nominated by Dr. Anjan Debnath, Skaggs School of Pharmacy

Entamoeba, Naegleria, Giardia

Erika Sasaki, Earl Warren College

Nominated by Elizabeth Winzeler, PhD, Pediatrics

Identification & Validation of Small Molecule Targets in Plasmodium Falciparum

Yue Qin, Revelle College

Nominated by Dr. Tariq Rana, Pediatrics

Dynamics of Human and Viral RNA Methylation during Zika Virus Infection

Shams Al-Azzam, John Muir College

Nominated by Dr. Lars Bode, Pediatrics

The effect of Human Milk Oligosaccharides on Parasitic Infections

William Comstock, John Muir College

Nominated by Robert A Quinn, PhD, Skaggs School of Pharmacy

Using Novel Experimental Protocols to mimic and study the Microbiology of Lung Infections

Denny Bao, Sixth College

Nominated by Soumita Das, Assistant Professor, Pathology

Nanoparticle Decoys for Treating Infection with Vibrio Cholerae

Natasha Mazon, Thurgood Marshall College

Nominated by Eduardo Macagno, PhD, Biological Sciences

Characterization of Antimicrobial Peptides in the Medicinal Leech

Panel #8: Economics and Evolution

Morning

Room: Terrace

Moderator: Dr. John Haviland

Wanxin Huang, Eleanor Roosevelt College

Nominated by Ross Starr, Professor, Economics

Price Distortion in Chinese Healthcare Industry

Becky Hui, Thurgood Marshall College

Nominated by Ross Starr, Professor, Economics

Rise and Impacts of the Sharing Economy: The Cases of Uber and Airbnb

Anastasia Vechera, Eleanor Roosevelt College

Nominated by Dr. Saiba Varma, Anthropology

Contemporary Organ Transplantation: A Social Process of Nuance and Uncertainty

Adam Chin, Revelle College

Nominated by Gila Sher, Professor, Philosophy

Darwinism in Ancient Greek Thought

Sonja Chen, Eleanor Roosevelt College

Nominated by Joe Hankins, Professor, Anthropology

Silicon Valley Immigrants: The Benefited and the Marginalized

Alejandro Perez, Eleanor Roosevelt College

Nominated by Dr. Katerina Semendeferi, Anthropology

Powerful Art: The Transformation of Value of Wixarika Religious Offerings

Miriam Sandoval, Warren College

Nominated by Dr. Harry Simón Salazar, Communication

Hierarchical Deinstitutionalization: Indigenous Language Revitalization on the San Pascual Reservation

Panel #9: Cellular Signaling and Neurobiology

Afternoon

Room: Faculty Club 1 & 2

Moderator: Dr. Stephanie Grainger

Jennifer Grundman, John Muir College

Emily Sereno, Sixth College

Nominated by Ralph Greenspan, Professor, Biological Sciences

Flies on the Move: Measuring Learning Ability and Behavioral Changes of Fruit Flies in Response to Laser Treatment

Oliva Mota, John Muir College

Nominated by Eduardo Macagno, PhD, Cell and Developmental Biology

ATP Modulation of Neuronal Gap Junctions Circuits in the CNS of the Leech

Xuehan Sun, Revelle College

Nominated by Jonathan Lin, MD, PhD, Pathology

Tauopathy-associated EIF2AK3/PERK alleles increase neuronal vulnerability to ER stress

Xavier Orain, Revelle College

Nominated by Dr Chengbiao Wu, Neuroscience

Study of Hereditary Sensory Autonomic Neuropathy Type V.

Jordan Setayesh, Sixth College

Nominated by Karl Willert, Professor, Cellular and Molecular Medicine

Wnt-Fzd Specificity

Yimin Yang, Earl Warren College

Nominated by Alexandra Newton, Professor, Pharmacology

Rare Protein Kinase C Variants in Alzheimer's Disease

Dylan Le, Earl Warren College

Nominated by William Kristan, Professor Emeritus, Neurobiology

Panel #10: Ecology, Behavior, and Evolution

Afternoon

Room: Faculty Club 3

Moderator: Dr. Tatum Simonson

Maryanne Beckwith, John Muir College

Nominated by Dr. Lisa Levin, Biological Oceanography

Demersal Fish Ecology in Hypoxic Regions Along the Southern California Borderland

Cheyenne Payne, John Muir College

Nominated by Greg Rouse, Professor, Marine Biology Research Division

A New Species of Sea Daisy (Xyloplax, Asteroidea, Echinodermata)

Grace Chan, Eleanor Roosevelt College

Nominated by Dr. Jennifer Taylor, Marine Biology Research Division

Ocean Acidification and Food Availability Effects on Mantis Shrimp Feeding Behavior

Cassidy Tran, John Muir College

Nominated by Eva-Maria S. Collins, PhD, Physics and Cell & Developmental Biology

Generation and Long-Term Maintenance of Nerve-Free Hydra

Jingxiao Zhang, Eleanor Roosevelt College

Zhuoran Ding, Earl Warren College

Nominated by James Nieh, Professor and E.B.E. Chair, Biological Science, section of Ecology, Behavior and Evolution

Effect of a new pesticide (flupyradifurone) on honey bee longevity and health

Panel #11: Anthropology, Public Health, and Sociology

Afternoon

Room: Faculty Club 4 & 5

Moderator: Dr. Isaac Martin

Isabel Hermsmeyer, Revelle College

Nominated by Margaret Schoeninger, PhD, Anthropology

The Peculiar Diet of Paranthropus boisei and an Investigation of Gelada Baboons as a Model

Shannon Subers, Eleanor Roosevelt College

Nominated by Shirley Strum, PhD, Anthropology

The lonely ape?: Social flexibility in orangutans and its implications for captive populations

Savanna Ducharm, John Muir College

Nominated by Dr. Thomas Csordas, Anthropology

DEFINING BODIES: How biomedical technologies construct the body under the biomedical gaze

Matthew Van Schalkwyk, John Muir College

Nominated by Thomas E. Levy, Distinguished Professor, Anthropology

Craft Production and Metallurgy in the Southern Levant: The Role of Lithics in an Early Bronze Age III/IV Copper Production Center

Katerina Morgan, Thurgood Marshall College

Nominated by Dr. Isaac Martin, Vice Chair, Sociology

Do Supervised Injection Facilities Have a Future in North America? A Transnational Comparison

Christian Marshall, John Muir College

Nominated by Amy Binder, Professor, Sociology

Racial Distinctions in the Market for Youth Financial Advice

Sydney Parr, Sixth College

Nominated by Dr. Isaac Martin, Vice Chair, Sociology

SD's Kitchen: A Study of Social Network Isolation of the Urban Poor

Panel #12: Chemistry and Physics

Afternoon

Room: Faculty Club 6

Moderator: Dr. Saikat Chakraborty Thakur

Laura Tran, Revelle College

Nominated by Michael Gilson, Professor and Chair in Computer-Aided Drug Design, Center for Drug Discovery

The Effect and Importance of Force Field Parameters on Simulation Accuracy in Host-Guest Simulations

Aishwarya Venkatramani, Revelle College

Nominated by J. Andrew McCammon, Professor, Chemistry and Biochemistry

Molecular Dynamics of malarial parasite Plasmodium falciparum

Kyle Balucanag, John Muir College

Nominated by Palmer Taylor, PhD, Pharmacology

Plasma Protein Binding as a Determinant in Developing and Approving New Drug Candidates

Adrian Garcia Badaracco, Earl Warren College

Nominated by Andrew C. Kummel, Distinguished Professor, Chemistry and Biochemistry

Low Efficiency Upconversion Nanoparticles for High-Resolution Coalignment of Near-Infrared and Visible Light Paths on a Light Microscope

Kelly Garcia, Revelle College

Nominated by Dr. Saikat Chakraborty Thakur, PhD, Center for Energy Research

Spectroscopic studies of axial plasma detachment in the Controlled Shear Decorrelation eXperiment (CSDX) plasma device

Brandon Schwendeman, Sixth College

Nominated by Dr. Saikat Chakraborty Thakur, PhD, Mechanical and Aerospace Engineering

Matching network for RF biasing of insulators for plasma exposure

Nathaniel Goldberg, Muir College

Nominated by Michael Tolley, Assistant Professor, Mechanical and Aerospace Engineering

Dielectric elastomer actuators utilizing fluid electrodes

Panel #13: Immunology and Inflammation

Afternoon

Room: Seuss Library

Moderator: Dr. Stephanie Stanford

Stephanie Wong, John Muir College

Nominated by Dr. Maripat Corr, Medicine

Sex differences in Toll-like receptor regulation of arthritic pain in mice

Kevin Yang, John Muir College

Anthony Bui

Nominated by Dr. Maripat Corr, Medicine

P2XR and IL-1 deficiency Affect Arthritis in Males more than Females

Yuya Fujita, John Muir College

Nominated by Dr. Maripat Corr, Medicine

Evaluation of IL10 in an animal model of rheumatoid arthritis

Yi-Chen (Madeline) Lee, Thurgood Marshall College

Nominated by Jesus Rivera-Nieves, MD, Medicine

The role of gut microbiome and IgA production in Inflammatory Bowel Disease (IBD) of TNF^{ΔARE} (TNF) mice versus TNF^{Δ7KO} mice

Abdolkhaleq Mohamed, Sixth College

Nominated by Anjan Debnath, PhD, Skaggs School of Pharmacy

Effect of NLRP3 Inhibitor on Entamoeba histolytica Growth and their Capability of Infecting Macrophage Host Cells

Panel #14: Arts and Identities

Afternoon

Room: Atkinson Pavilion

Moderator: Dr. Alain J.-J. Cohen

Anna Parkhurst, John Muir College

Nominated by Michael Davidson, Professor Emeritus, American Literature

Aesthetic Objects and Expressive Subjects: Portraits of Female Subjectivity in the Gilded Age

Louise Wilson, John Muir College

Nominated by William Tronzo, Professor, Visual Arts Department

La Sirena: Exploring the Figure of the Mermaid in Mexican Folk and Popular Art

Ryan Jensen, Eleanor Roosevelt College

Nominated by Alain J.-J. Cohen, PhD, Film

Recurring Elements within the film Birdman

Sarah Prentiss, Sixth College

Nominated by Janet Smarr, Distinguished Professor, Theatre and Dance

Female Identity in Restoration Comedy from the Perspective of Both Male and Female Playwrights

Krysta Kowalski, John Muir College

Nominated by Alain J.-J. Cohen, PhD, Literature

Anticipation in Sequence 15: Nuances of a Marriage in Suspense in WHO'S AFRAID OF VIRGINIA WOOLF?

Megan Finch, Sixth College

Nominated by Kevin Lewis, Professor, Sociology

The Parent Trap: How College Students Perceive Their Parents? Divorce to Impact Their Behavior and Identity in Romantic Relationships

Oslín Licea Chávez

Nominated by Luz Chung, Ed.D., Education Studies

Heritage Spanish Speakers

Daisy Bejarano, Thurgood Marshall College

Nominated by Dr. Vanesa Ribas, Sociology

Mi Existir, Es Resistir: Unpacking Complex Collective Identity and Activism in Queer Chicana and Mexican Social and Political Spaces

Panel #15: Molecular Biology
Afternoon
Room: Lounge
Moderator: Dr. Constanza Cortes

Jennifer Corona, Eleanor Roosevelt College
Nominated by Amy Non, PhD MA, Anthropology
mtDNA Ancestry in Hispanic Immigrant Children

Logan Laubach, Revelle College
Nominated by Kamil Godula, Assistant Professor, Chemistry and Biochemistry
Glycopolymer Mimetics influence on Growth Factor Recruitment on an Embryoid Body

Christine Rahal, Earl Warren College
Nominated by Dr. Richard Kolodner, Cellular and Molecular Medicine
Identification of the Rad5 DNA Helicase in Exo1-Independent DNA Mismatch Repair

Jake Schenken, Revelle College
Nominated by Elizabeth Winzeler, PhD, Pediatrics
Target Identification and Validation in ABC16 Knockout *S. cerevisiae*

Kirsten Wong, Revelle College
Nominated by Dr. Adam Engler, Bioengineering
Improved Disease Modeling Reveals New Cardiac Phenotypes in 9p21 Gene Locus

Heather Tucker, Sixth College
Nominated by Constanza Cortes, Assistant Project Scientist, Pediatrics
Analysis of Skeletal Muscle Protein in TFEB Bigenic Mice Subjected to Metabolic Stressors

David Kozirovskiy, Sixth College
Nominated by Kamil Godula, Assistant Professor, Chemistry and Biochemistry
Design and Synthesis of Covalent Inhibitors of Beta-1,4-Galactosyltransferase 7

Steven Wu, Thurgood Marshall College
Nominated by Alexandra Newton, Professor, Pharmacology
Identification of Protein Kinase C's substrates via Chemical Genetics

Panel #16: Psychiatry and Psychology

Afternoon

Room: Terrace

Moderator: TBA

Cristina Rangel, Thurgood Marshall College

Nominated by Dr. Amy Lansing, Psychiatry

Predictors of Drinking Induced Disinhibition Among Juvenile Delinquents

Sanskruti Kakaria, Sixth College

Nominated by Charles T. Taylor, PhD, Psychiatry

Can Increased Positivity Lead to Stronger Relationships within a Psychiatric Population?

Kristina LePard, Thurgood Marshall College

Nominated by Dr. Lisa Eyer, Psychology

Mood Variability from Baseline Mood in those with Bipolar Disorder: An Ecological Momentary Assessment

Layla Elmi, John Muir College

Nominated by Dr. Carolyn B. Allard, Psychiatry

Predictors of treatment initiation and completion in veterans with PTSD

Rachel Storer, Eleanor Roosevelt College

Nominated by Charles T. Taylor, PhD, Psychiatry

Approach and Avoidance in the Brain: A Cross-sectional Examination of Anxiety and Depressive Disorders using fMRI

Selena Baca, John Muir College

Nominated by Dr. Carolyn Allard, Psychiatry

Sexual Trauma History and Associated Symptoms Among Treatment-Seeking Male and Female Veterans

Beverly Yu, Earl Warren College

Nominated by Maria Marquine, Assistant Professor, Psychiatry

Stressful Life Events and Resilience among Older Hispanics and Non-Hispanic Whites



Programs sponsored by Academic Enrichment Programs (AEP) are designed to broaden students' educational experiences and encourage their pursuit of advanced degrees. AEP offers UC San Diego undergraduates the opportunity to obtain valuable, multi-disciplinary, research-oriented academic or professional preparation in virtually any academic major, including life, physical, health, and social sciences, math, engineering, and arts and humanities. AEP initiatives are designed to enhance students' ability to pursue post-baccalaureate success. Programs provide students with the experience of conducting research under the guidance of UC San Diego faculty mentors and presenting research findings at noted undergraduate research conferences in the company of peers and established scientists.

In addition to facilitating research based faculty/student contact, AEP provides other avenues for faculty and student interaction, including faculty moderation at research conferences and informal gatherings such as Coffee and Conversation with Faculty. AEP provides both academic year and summer research, training, and scholarship opportunities, maximizing student opportunities to participate in research-related and personal and professional development activities. Many of the programs provide scholarship or stipend support. Summer programs also provide on-campus housing or a housing subsidy that partially offsets the costs of housing.

AEP's support is comprehensive. The office is an excellent resource for students interested in completing one research assignment or planning for an academic or research career. It also arranges opportunities for networking with peers, professors, and professionals, on and off-campus. Most programs follow the cohort model that enhances a student's sense of belonging at the university and treats students as valued members of a mutually supportive scholarly community.

AEP participants also receive assistance and guidance in applying for graduate school and various fellowships and scholarships. Additionally, they are given the chance to exchange ideas with other research undergraduates and faculty from across the country.

ACADEMIC ENRICHMENT PROGRAMS STAFF

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