10th Annual Undergraduate Research, Scholarship, and Creative Activity Symposium

April 19 & 20, 2016

3rd Floor HUB
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10th Annual Undergraduate Research, Scholarship, and Creative Activity Symposium

Schedule of Events
Oral Presentations

Tuesday, April 19, 2016

7:45 – 8:55   Presenter Registration & Poster Setup  
HUB Lobby 3rd Floor

8:30   Registration Officially Opens  
HUB Lobby 3rd Floor

Oral Presentations

9:00-10:00   Session 1   HUB 355   Moderator: Heidi Waltz, Comp Lit. & Foreign Language
1a   Caribbean Myth and History in the Poetry of Anne Sexton  
   Jill Hoo, English  
   Faculty Mentor: Steven Axelrod, English

1b   Feeling Disobedient: Affective Resistance and Performance and Performative Pranks in Harriet Wilson’s “Our Nig”  
   Kiersten King, English  
   Faculty Mentor: Emma Stapely, English

1c   The Power of Disguise: Removing the Veil of Idealism  
   Ricky St. Claire, English  
   Faculty Mentor: John Briggs, English

9:10 – 10:00   Session 2   HUB 367   Moderator: Ellen Reese, Sociology
2a   The Evaluation of Ancient Egyptian Agricultural Practices and their Implementation in Modern Egyptian Society  
   Giosiana Turchetti, Anthropology / Middle East and Islamic Studies  
   Faculty Mentor: Eugene Anderson, Anthropology

2b   The Second Amendment: A New Beginning  
   Macy Wilens, History Law / Society  
   Faculty Mentors: Robert Parker, Sociology; Richard McFarlane, History
10:10-11:00  Session 3  HUB 355  Moderator: Michael McKibben, Geology and Divisional Dean of Student Affairs, CNAS
3a  A Study of the Multijet Background for Inclusive, Hardronic Searches for Supersymmetry in the CMS Detector
Connor Richards, Physics
Faculty Mentor: Owen Long, Physics and Astronomy

3b  Perceptions of Non-Verbal Communication Style
Pamela Osborn, Biology
Faculty Mentor: Howard Friedman, Psychology

3c  Examining Adult Defects in Gut Specification Mutants
Christian Turner, CMDB
Faculty Mentor: Morris Maduro, Biology

10:10 – 11:00  Session 4  HUB 367  Moderator: Dr. Curt Burgess, Psychology
4a  The Anti-Rape / Anti-Sexual Movement on College Campuses
Kristina Moisa, Political Science / International Relations
Faculty Mentor: Alicia Arrizon, Gender and Sexuality Studies

4c  Correlates of Medical Jargon Use by Physicians and Patients During Surgical Consultations
Brandon Tran, Psychology
Faculty Mentor: Kate Sweeney, Psychology

11:30 – 12:00  Symposium Opening Ceremony
Welcome – Steven Brint, Vice Provost Undergraduate Education

Kennedy Center American College Theatre Festival Performances by:

Monologue from Sylvia by A.R. Gurney
Victoria Ringo, Political Science
Faculty Mentor: Robin Russin, Theatre, Film & Digital Production

Scene from The Elephant Man
Ephraim Eshete, Sociology, Theatre Minor and Fernando Echeverria, Political Science/Theatre
Faculty Mentor: Robin Russin, Theatre, Film & Digital Production

12:00 – 1:00  Poster Sessions  HUB 302
12:00 – 1:00  Resource Fair  HUB 302
**ORAL PRESENTATIONS**

1:10 – 2:00  
**Session 5**  
**HUB 355-H302**  
Moderator: Paulo Chagas, Music

5a  Hearing Colors  
Adrienne Blackwood, Creative Writing  
Faculty Mentor: Michael Jayme, Creative Writing

5b  Latina Theatre for Young Audiences: MARIACHI GRIL  
Melanie Queponds, Theatre and English  
Faculty Mentor: Tiffany Lopez, Theatre, Film & Digital Production

5c  Two Road Converged  
Harrison Moulton, Business Administration Marketing  
Faculty Mentor: Erith Jeffe-Berg, Theatre, Film & Digital Production

1:10 – 2:00  
**Session 6**  
**HUB 367**  
Moderator: Dr. Hill Harman, Chemistry

6a  Synthesis of Neuoprotective Limonoid Natural Products  
Johny Nguyen, Chemical Engineering  
Faculty Mentor: David Martin, Chemistry

6b  Investigation of the Cobalt Distribution in the Room Temperature Ferromagnetic Nanocomposite TiO2-Co Thin Films  
Cody Gonzalez, Mechanical Engineering  
Faculty Mentor: Sandeep Kumar, Mechanical Engineering

6c  Effects of Air Lubrication on Hydrokinetic Turbines  
Chirawat Sanpakit, Mechanical Engineering and Timothy Lam, Mechanical Engineering  
Faculty Mentor: Marko Princevac, Mechanical Engineering

1:10-2:00  
**Session 7**  
**HUB 379**  
Moderator: Thomas Morton, Chemistry

7a  An Exploratory Study of the Geographic Distribution of Asthma Hospitalization Rates in Inland Empire, California  
Yuna Kwon, Biology  
Faculty Mentor: Tanya Nieri, Sociology

7b  The Synthesis and Biological Testing of Cupric Polypyridyl Complexes: An Alternative to Cisplatin?  
Noah Angel, Chemistry  
Faculty Mentor: Jack Eichler, Chemistry

7c  Copper(II) Complexes as Potential Anticancer Drugs  
Michelle Smith, Chemistry, Julia Jenkins, Biochemistry, Youssef Daoudi, Biochemistry  
Faculty Mentor: Jack Eichler, Chemistry
2:10 – 3:00  Session 8  HUB 355  Moderator: Marko Princevac, Mechanical Engineering

8a  Fabrication of Siolica Nanofibers for Nucleic Acid Extraction  
Marissa Gonet-Gonzales, Bioengineering  
Faculty Mentor: Wenwan Zhong, Chemistry

8b  Biomimetic Impact Resistant Nanofiber Reinforced Composites  
Brian Macdonald, Chemical Engineering  
Faculty Mentor: David Kisailus, Chemical and Environmental Engineering

8c  Conductive Reverse Osmosis-Polyamide Membranes for Silica-Containing Wastewater Treatment  
Julianne Rolf, Environmental Engineering  
Faculty Mentor: David Jassby, Chemical and Environmental Engineering

2:10-3:00  Session 9  HUB 367  Moderator: Joel Sachs, Biology

9a  Captopril Suppresses Toxicant-induced Pressor Responses and Upregulation of RAAS Gene Markers NR3C2 and SGK1 in Acutely Salt-loaded Rats  
Alicia Ramirez, Biology and John Lindner, Biochemistry  
Faculty Mentors: Margarita Curras-Collazo, Department of Cell Biology & Neuroscience; Frances Sladek, Department of Cell Biology & Neuroscience

9b  Hydraulic Characteristics as a Survival Trait in Woody Plant Species Found in California’s Chaparral Region  
Luis Torres, Biology  
Faculty Mentor: Louis Santiago, Botany and Plant Sciences

9c  Increased Neuronal Activity in the Stress Center of the Brain in Response to Acute Ozone Exposure May Indicate Why Ozone Leads to Metabolic Disorder  
Damon Platt, Biology  
Faculty Mentor: Margarita Curras-Collazo, Department of Cell Biology & Neuroscience
SCHEDULE OF EVENTS
ORAL PRESENTATIONS

WEDNESDAY, APRIL 20, 2016

7:45 – 8:55 Presenter Registration & Poster Setup
HUB Lobby 3rd Floor

8:30 Registration Officially Opens
HUB Lobby 3rd Floor

ORAL PRESENTATIONS
9:10 – 10:00 Session 10 HUB 355 Moderator: Paulo Chagas, Music
10a Constructing an Albertine Legacy: Sculptural Monuments in Saxon Court Chapels and Freiberger Dom, 1554-1594
Russel Altamirano, Art History
Faculty Mentor: Kristoffer Neville, Art History

10b The Dynamic Social Agency of the Kālacakra Sand Mandala
Sierra LaPoint, Art History / Religious; Philosophy
Faculty Mentor: Matthew King, Religious Studies, Gender and Sexuality Studies

10:10 – 11:00 Session 11 HUB 355 Moderator: Alicia Arrizon, Gender & Sexuality Studies
11a Why is Google So Successful?
Yvette Villalobs, Business Administration
Faculty Mentor: Sean Jasso, Business Administration

11b Semantic Weight and How Language Helps Children Understand Religion
Eva M. Perez Cecenas, Business Administration and Linguistics
Faculty Mentor: Rebekah Richert, Psychology

11c The Role of Online Social Network Support in New Users Continued Interactions
Juan Sanabria, Neuroscience
Faculty Mentor: Megan Robbins, Psychology
10:10 – 11:00  Session 12  HUB 367  Moderator: Morris Maduro, Biology
12a Microsatellite Characterization of Penicillium Digitatum, Casual Agent of Green Mold of Citrus
Erika Varady, Biology
Faculty Mentor: George Vidalakis, Plant Pathology and Microbiology

12b Effect of Material Properties on Bacterial Attachment to Thin Film Photocatalytic Titanium Dioxide
Madeline Luth, Microbiology
Faculty Mentor: Sharon Walker, Chemical and Environmental Engineering

12c The Effects of Climate and Forest Disturbances on the Growth of Calocedrus Decurrens at the
Southern and Northern Portion of Its California Range
Alina Geangu, Plant Biology
Faculty Mentor: Jeffrey Diez, Botany and Plant Sciences

11:10-12:00  Session 13  HUB 355  Moderator: Rebekah Richert, Psychology
13a The Effects of Gaming Exposure on Metacognitive Experience
Cynthia Ibarra, Psychology
Faculty Mentor: Rebekah Richert, Psychology

13b Prayer's Perceived Efficacy in Health Contexts
Albert Ly, Psychology
Faculty Mentor: Rebekah Richert, Psychology

13c Ideas about Health and Medicine
Rachel Nemeth, Psychology
Faculty Mentor: Rebekah Richert, Psychology

12:00 – 1:00  Poster Sessions  HUB 302
12:00 – 1:00  Resource Fair  HUB 302
ORAL PRESENTATIONS
1:10-2:00    Session 14    HUB 355    Moderator: Matthew King, Religious Studies
14a  The Effect of Sibling Relationships on Resiliency Against Childhood Bullying  
    Nina Caudill, Sociology  
    Faculty Mentor: Robert Parker, Sociology

14b  Technocultural Citizenship and Counterpublicity: Player Agency and Worldmaking in Queer Videogame Spaces  
    Mary Michael, Sociology / Law and Society  
    Faculty Mentor: James Tobias, English

14c  Assessing the Knowledge, Beliefs, and Attitudes of HIV/AIDS Among Undergraduate and Medical Students  
    Jason Tran, Public Policy  
    Faculty Mentor: Emma Simmons, School of Medicine

1:10-2:00    Session 15    HUB 367    Moderator: Barry Mishra, Religious Studies
15a  Why Marriage? The Incompatibility of Marital Expectations with Individuation and Exhaustion  
    Samantha St. Claire, English  
    Faculty Mentor: Vorris Nunley, English

15b  Determining the Extent That a High Dimensional Memory Model Can Categorize Verbs Based on Fine Granularity  
    Kimberly Miller, Linguistics  
    Faculty Mentor: Curt Burgess, Psychology

2:10-3:00    Session 16    HUB 355    Moderator: Kurt Anderson, Biology
16a  Involvement of VPAC2 Receptors in Adrenal Mineralocorticoid and Glucocorticoid Gene Expression and Hormone Responses to Acute Stress in Mice  
    John Lindner, Biochemistry and Neuroscience  
    Faculty Mentor: Margarita Curras-Collazo, Cell Biology and Neuroscience

16b  Promoting Mindfulness and Acceptance: How a Week-long Mediation Training Program Influenced Youths Coping Self-Efficacy  
    Akhila Nekkanti, Neuroscience  
    Faculty Mentor: Michael Jayme, Creative Writing

16c  Relative Expression of Ecdysis Triggering Hormone Signaling Genes in Adult Drosophila Melanogaster  
    Raymond Tran, Neuroscience  
    Faculty Mentor: Michael Adams, Entomology, Cell Biology and Neuroscience
2:10-3:00  Session 17  HUB 367  Moderator: Dimitrios Morikis, Bioengineering
17a Preparation, Degradation, and Cytocompatibility of Electronphoretically Deposited MgO Nanoparticle Coatings for Orthopedic Applications
Mayra Celene and Cortez Alcaraz, Bioengineering
Faculty Mentor: Huinan Liu, Bioengineering

17b Stage-Specific Induction of Cardiomyogenic Differentiation in Dynamic Suspension
Joshua Karam and Daniel Nampe, Bioengineering
Faculty Mentor: Hideaki Tsutsui, Mechanical Engineering

2:10-3:00  Session 18  HUB 355  Moderator: Denver Graninger, History
18a Linguistic Analysis of Gender-Inclusive Language in English
Honeiah Karimi, Linguistics
Faculty Mentor: Heidi Waltz, Comparative Literature and Foreign Languages

18b Situational Experience Through the Lens of Relationships Around the World
Shazia Parekh, Psychology
Faculty Mentor: David Funder, Psychology

18c Student Explanations for their Attitudes Toward Cognitive Enhancement Drugs
Nicole Perez, Psychology and Music Performance
Faculty Mentor: Kate Sweeney, Psychology

3:10-4:00  Session 19  HUB 337  Moderator: Jingsong Zhang, Chemistry
19a Adult C. Elegans Exhibit Physiological Abnormalities When Early Gut Development is Partially Compromised
Kollan Doan, Cell, Molecular and Development Biology
Faculty Mentor: Morris Maduro, Biology

19b CVD Growth and Characterization of TMD Materials on Patterned and Non-Patterned Substrates
Sahar Naghibi, Chemistry
Faculty Mentor: Ludwig Bartels, Chemistry

19c Investigating the Systematics of the Pseudochalcura (Hymenoptera: Eucharitidae) Populations of North America
Scott Heacox, Entomology
Faculty Mentor: John M. Heraty, Entomology

3:10-4:00  Session 20  HUB 379  Moderator: Perry Link, Comp. Lit. & Foreign Languages
20a The Evolution of Revolution – A Comparative Analysis of World Revolutions from 1789 to 2011
Sandor Nagy, Global Studies
Faculty Mentor: Christopher Chase-Dunn, Sociology

20b Does the Inclusion of Latin Culture Affect Latina Women’s Subjective Experience of Zumba
Christine Munoz, Sociology
Faculty Mentor: Tanya Nieri, Sociology

4:00 – 5:00  CLOSING CEREMONY  HUB 302

Presentation of Best Oral and Poster Presentation Awards and Closing Remarks
SCHEDULE OF EVENTS

POSTER PRESENTATIONS

TUESDAY, APRIL 19, 2016
HUB 302

BCOE

A 01 Polydiacetylene-Coated Polyvinylidene Fluoride Strip Aptsensor for Colorimetric Detection of Zinc(II)
Karen Bohorquez, Mechanical Engineering
Faculty Mentor: Hideaki Tusutsui, Mechanical Engineering

A 02 Photocatalytic Oxidation of Nitrogen Oxides Using TiO2-incorporated Coatings
Eric Lin, Chemical Engineering
Faculty Mentors: Kawai Tam, Chemical/Environ. Engineering; David Cocker, Chemical and Environmental Engineering

A 03 Environmental Impacts of Titanium Dioxide Through A Model Colon and Septic Tank System
Diego Novoa, Chemical and Environmental Engineering
Faculty Mentor: Sharon Walker, Chemical/Environ. Engineering

A 04 Controlled BaTiO₃ Nanofibers for Enhanced Piezoelectric Properties
Paymon Shirazi, Chemical Engineering
Faculty Mentor: Nosang Myung, Chemical and Environmental Engineering

A 05 A study of Poly (Glycerol Sebacate) on Magnesium as Bioresorbable Materials
Larry Tran, Chemical Engineering
Faculty Mentor: Huinan Liu, Mechanical Engineering

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| A 06 | 1980 Iran-Iraq War: Impact of Illegal Use of Chemical Weapons  
Arvanoush Boudaghians, Linguistics  
Faculty Mentor: Denver Graninger, History |
| A 07 | Support from Friends and the Academic Self-Efficacy and School Connectedness of First-Year College Students  
Francine Can, Psychology  
Faculty Mentor: Mary Gauvain, Psychology |
| A 08 | Music as a Form of Migration  
Alondra Clemente, Anthropology  
Faculty Mentor: Susan Ossman, Anthropology |
| A 09 | Reimagining Interdisciplinary Disciplines: A Case for Subjectivity in Knowledge Construction in Public Policy and the Social Sciences  
Ariana Elizalde, English and Public Policy  
Faculty Mentor: Fred Moten, English |
| A 10 | Editing California: Félix Buelna  
Evelyn Gamez, Linguistics and Spanish  
Faculty Mentor: Covadonga Lamar Prieto, Hispanic Studies |
| A 11 | Emotions and Cognitive Development in Early Childhood  
Haydi Gerges, Psychology  
Faculty Mentor: Rebekah Richert, Psychology |
| A 12 | The Effect of Music on the Perception of Emotionally Neutral Faces  
Jessica Grier, Psychology  
Faculty Mentor: Rebekah Richert, Psychology |
| A 13 | Children's Analogical Connections and Physical Realism  
Jennifer Hernandez, Psychology  
Faculty Mentor: Rebekah Richert, Psychology |
| A 14 | He Said/She Said: Boys and Girls Differ in Emotional Coherence  
Thong Huynh, Anthropology  
Faculty Mentor: Elizabeth Davis, Psychology |
| A 15 | Audeamus Multidisciplinary Journal  
Julia Krum, Neuroscience, Raymond-Tan Tran, Neuroscience, and Adrianne Blackwood, Creative Writing  
Faculty Mentor: Richard Cardullo, Biology |
A 16  Connections Between Task-irrelevant Perceptual Learning and the Attention Network Task
Jennie Linck, Psychology
Faculty Mentor:  Aaron Seitz, Psychology

A 17  Effect of Emotional Arousal on Visual Working Memory Consolidation
Ana Martinez Flores, Psychology
Faculty Mentor:  Weiwei Zhang, Psychology

A 18  Anthropomorphic Views of God and Religious Affiliation
Marisa Montoya, Psychology
Faculty Mentor:  Rebekah Richert, Psychology

A 19  What’s in a Name? Using the Hyperspace Analogue to Language Model of Semantic Memory to find
Associations between Adjectives and Names
Derrick Tien, Statistics
Faculty Mentor:  Curt Burgess, Psychology

SoBA
A 20  Can Yogurt Lids Cure Cancer? A closer understanding of the driving force behind philanthropic actions and the
results of those actions.
Alyssa Stump, Business Administration
Faculty Mentor:  Sean Jasso, Business Administration

CNAS
A 21  Mapping the m5C modification on small RNAs in C. elegans
Phillip Adilukito, Neuroscience
Faculty Mentor:  Weifeng Gu, Cell Biology and Neuroscience

A 22  Identifying a Division Plane Orientation Mutant in Arabidopsis thaliana
Leslie Aranda, Biochemistry
Faculty Mentor: Carolyn Rasmussen, Botany and Plant Sciences

A 23  Synthesis of Copper(II) Complexes with Potential for Antitumor Activity
Michael Baird, Chemistry
Faculty Mentor:  Jack Eichler, Chemistry

A 24  Overexpression of MiR-361 Promotes Osteogenesis From the Neural Crest
Linh Blackney, Biology
Faculty Mentor:  Nicole zur Nieden, Cell Biology and Neuroscience

A 25  The Effects Of Electronic Cigarette Exhaled Aerosol Residue On Human Cell Morphology As An
Indicator Of Cell Stress
Jessica Bustamante, Cell, Molecular Development Biology
Faculty Mentor:  Prue Talbot, Cell Biology and Neuroscience
A 26  Effects of Electronic Cigarette Aerosol on Human Embryonic Stem Cell Health
      Iliana Cordova, Psychology
      Faculty Mentor: Prue Talbot, Cell Biology and Neuroscience

A 27  Cytotoxic Effects of Varying Humectant Concentrations and Voltage in Electronic Cigarettes
      Eriel Datuin, Biology
      Faculty Mentor: Prue Talbot, Cell Biology and Neuroscience

A 28  The Effect of Variable Connectivity on Richness in Spatially Fragmented Pond Microcosms
      Heather David, Microbiology
      Faculty Mentor: Kurt Anderson, Biology

A 29  Effect of Genetically Modified Soybean Oil (Plenish) on Pain Threshold through Diet-Induced Obesity
      Dave Enriquez, Neuroscience
      Faculty Mentor: Margarita Curra-Collazo, Cell Biology and Neuroscience

A 30  Investigating Associational Susceptibility of a Native Plant Mediated by and Invasive Plant and an
      Invasive Herbivore
      Seth Freitas, Entomology
      Faculty Mentor: Matt Daugherty, Entomology

A 31  Investigating the impact of fluidic agitation on human pluripotent stem cells in dynamic suspension
      Ronak Joshi, Neuroscience
      Faculty Mentor: Hideaki Tsutsui, Mechanical Engineering

A 32  The Role of HOTAIR M1 and HOX genes in Breast Cancer Development
      Alexia King, Biochemistry
      Faculty Mentor: Ernest Martinez, Biochemistry

A 33  Exploring Brain Gene Markers for Neurobehavioral Deficits Produced by Developmental Exposure to
      Indoor Flame Retardants
      Elena Kozlova, Neuroscience
      Faculty Mentor: Margarita Curra-Collazo, Cell Biology and Neuroscience

A 34  Morphological Variation in Natural and Synthetic Nicotiana tabacum Polyploids
      Amelda Kurti, Microbiology
      Faculty Mentor: Amy Litt, Botany and Plant Services

A 35  Effects of Fatherhood on Neuronal Morphology in the MPOA in Male California Mice
      Diane Luu, Cell, Molecular and Developmental Biology
      Faculty Mentor: Peter Hickmott, Psychology, and Wendy Saltzman, Biology

A 36  Analysis of the function of FRUITFULL paralogs in tomato using CRISPR
      Jenna Macon, Cell, Molecular and Developmental Biology
      Faculty Mentor: Amy Litt, Botany and Plant Sciences
A 37  Characterization of a Plant Hormone Receptor: ABA-PYR1
Robert Mannatt, Biochemistry
Faculty Mentor: Sean Cutler, Botany and Plant Sciences

A 38  Assessing the dynamics of a generalist predator/prey model across different spatial configurations
Rosa McGuire, Biology
Faculty Mentor: Kurt Anderson, Biology

A 39  Replication of a honey bee virus in alfalfa leafcutter bees
Sarah Miller, Biology,
Faculty Mentor: Quinn McFrederick, Entomology

A 40  Analysis of Reproductive Mode (Placental and Nonplacental) on Genetic Variation Across Geographically Isolated Populations of P. prolifca and P. infans
Anthony Nguyen, Biochemistry
Faculty Mentor: David Reznick, Biology

A 41  Role of Microtubule Dynamics in Cell Division using Maize tangled-1 Mutant
McKenzie Pickle, Biology
Faculty Mentor: Carolyn Rasmussen, Botany and Plant Sciences

A 42  Investigation of HOTAIRM1 in Hindbrain Tumors
Shawn Poag, Biochemistry
Faculty Mentor: Ernest Martinez, Biochemistry

A 43  Data Mining the 2010 National Health Interview Survey: What Characteristics are Common Among Those with Multiple Cancers?
Gabriel Ruiz, Statistics
Faculty Mentor: Subir Ghosh, Statistics

A 44  Disruption of Neurological Circuits Controlling Blood Pressure by Indoor Flame Retardants
Gissell Sanchez, Neuroscience
Faculty Mentor: Margarita Curras-Collazo, Cell Biology and Neuroscience

A 45  Synthesis of Flavalin Natural Products
Lauren Sangster, Biochemistry
Faculty Mentor: David Martin, Chemistry

A 46  Solid-State Upconversion with CdSe Nanocrystals and Anthracene
Gabriela Tablas, Chemistry
Faculty Mentor: Ming Lee Tang, Chemistry
SCHEDULE OF EVENTS
POSTER PRESENTATIONS

WEDNESDAY, APRIL 20, 2016
HUB 302

BCOE

B 01 Rice Husk: A Sustainable Building Material for the Philippines
Jacqueline Ortega, Chemical Engineering
Faculty Mentor: Kawai Tam, Chemical and Environmental Engineering

B 02 Using DNA-hybridized microspheres in paper-based assays
Jenna Roper, Bioengineering
Faculty Mentor: Hideaki Tsutsui, Mechanical Engineering

B 03 Free Fatty Acid Exposure Decreases Trans-epithelial Electrical Resistance of Caco-2 Cells
Aaron Tan, Bioengineering
Faculty Mentor: Victor Rodgers, Bioengineering

CHASS

B 04 Disproportionate Representation of Latino and African American Students in Special Education: An Auto-Ethnography
Erica Guzman, Linguistics
Faculty Mentor: Jennifer Najera, Ethnic Studies

B 05 How do Attentional and Physiological Components of Emotion Regulation Contribute to Children’s Risk for Externalizing Symptoms?
Nikita D. Mahbubani, Psychology
Faculty Mentor: Elizabeth L. Davis, Psychology

B 06 Reproducing Religious Icons: Our Lady of Guadalupe in Southern California
Gabriela Perez, Religious Studies
Faculty Mentor: Jennifer Hughes, History, and Matthew King, Religious Studies

B 07 Prosocial Views of God and Gender
Styliani Petraki, Psychology
Faculty Mentor: Rebekah Richert, Psychology

B 08 Intersecting Identities: The Experience of Coming Out as Undocuqueer
Liliana Ramirez, Anthropology
Faculty Mentor: Jennifer Najera, Ethnic Studies
B 09  How Language Proficiency Could Increase Semantic Relationships in Memory  
Melissa Saidak, Psychology  
Faculty Mentor: Curt Burgess, Psychology

B 10  Desire in Natsume Soseki's Kokoro  
Yesenia Sanchez, Languages and Literature, Japanese  
Faculty Mentor: Annmaria Shimabukuro, Comparative Literature and Foreign Languages

B 11  Children’s Desensitization to Violence in Video Games and TV News  
Nancy Tang, Psychology  
Faculty Mentor: Rekekah Richert, Psychology

B 12  Parents Overestimate Children’s Behavioral and Cognitive Emotion Regulation Strategy Repertoires  
Austen Trainer, Psychology  
Faculty Mentor: Elizabeth Davis, Psychology

B 13  Get Back Out There! Children’s Participation in Sports and Parent Emotion Socialization  
Angie Truong, Psychology  
Faculty Mentor: Elizabeth Davis, Psychology

B 14  Exploration of Memory and Language Function through the SCiL Application  
Giselle Urquijo, Neuroscience  
Faculty Mentor: Curt Burgess, Psychology

B 15  Availability of Primary Care Resources, Social Disadvantage, and Diabetes Mortality in US Counties: A Multi-level Analysis  
Katy Wang, Statistics  
Faculty Mentor: Augustine Kposowa, Sociology

B 16  Framing Kind Acts on Life Satisfaction in Two Cultures  
Zizhong Xiao, Psychology  
Faculty Mentor: Sonja Lyubomirsky, Psychology

B 17  A Comedy of Migration: Commedia Dell'Arte and the Characterization of Migrant Workers  
Natalia Zufferey, Theatre  
Faculty Mentor: Erith Jaffe-Berg, Theater, Film and Digital Production

CNAS

B 18  Identifying the Dust-Associated Core Microbiome of the Salton Sea Region  
Taryn Barsotti, Microbiology  
Faculty Mentor: Emma Aronson, Plant Pathology and Microbiology

B 19  Screening Drosophila Melanogaster Sensory Neurons to Characterize an Entire Neural Circuit, Connecting Sensory Input to Hormonal Release  
Riyan Bittar, Biology  
Faculty Mentor: Naoki Yamanaka, Entomology
Characterization of DNA Transposable Elements from three Superfamilies in the Fairchild Mandarin Genome  
Alberto Corona, Biology, Travis Wrightsman, Biochemistry, and Cameron Hatch, Biochemistry  
Faculty Mentor: Susan Wessler, Botany and Plant Sciences

Diel Patterns in Oviposition and Egg Hatching of *Ectomyelois ceratoniae* Zeller  
James Hepler, Entomology, Plant Biology  
Faculty Mentor: Thomas Perring, Entomology

Soybean Oil High Fat Diet Reduces Hypothalamic Oxytocin Immunoreactivity  
Catherine Ho, Neuroscience  
Faculty Mentors: Margarita Curra-Collazo, Cell Biology and Neuroscience; Frances Sladek, Cell Biology and Neuroscience

Big Head, Little Head: Tracing the evolution of exaggerated head shapes in Nannocoris Reuter (Hemiptera: Schizopteridae)  
Christy Hoong, Neuroscience  
Faculty Mentor: Christiane Weirauch, Entomology

Expression of aquaporin 3 is a significant factor in outcomes of ascorbate treatment  
Andrew Huang, Neuroscience  
Faculty Mentor: Victor Rodgers, Bioengineering

Plant Nutrition: Dynamics in gene regulation in response to phosphate starvation in Arabidopsis  
James Koo, Biology  
Faculty Mentor: Julia Bailey-Serres, Botany and Plant Sciences

Floral Evolution in Nicotiana  
Amber Lawhorn, Biology  
Faculty Mentor: Amy Litt, Botany and Plant Sciences

Drug Design to Prevent Cancer Cell Metastasis  
Taylor Le, Biochemistry  
Faculty Mentor: Thomas Morton, Chemistry

Investigating the Role of EndoU in Developing T-cells  
Megan Lee, Biology  
Faculty Mentor: Fedor Karginov, Cell Biology and Neuroscience

Structural study of the interaction between DNMT1 and histone modification H4K20me2  
Linhui Li, Biochemistry  
Faculty Mentor: Jikui Song, Biochemistry

Testing for Heterodimerization of Moss Methyltransferases Through Genetic Crossing of Transgenic Tobacco Plants  
Haley Masters, Biology  
Faculty Mentor: Eugene Nothnagel, Botany and Plant Sciences; Martha Orozco-Cardenas, Botany and Plant Sciences
B 31  Cloning, Purification and Crystallization of ETR1  
Taylor Meyer, Biology  
Paul Larsen, Biochemistry

B 32  Impact of a Western Diet on Lipid Signaling Molecules in the Left Ventricle of Obese Mice  
Kevin Mortazavi, Neuroscience  
Faculty Mentor: Nicholas DiPatrizio, Biomedical Sciences

B 33  Screening for RNAi mutants deficient in silencing virus  
Sona Naik, Neuroscience, Stephanie Ngo, Biology, and Christian Agatep, Genetics  
Faculty Mentor: Weifeng Gu, Cell Biology and Neuroscience

B 34  Expression of glutamate aspartate transporter (GLAST) in the intrahippocampal kainic acid model of epileptogenesis  
Andrew Nakla, Biology  
Faculty Mentor: Devin Binder, Biomedical Sciences

B 35  Induction of M cells by Cholera Toxin  
Sophia Parks, Neuroscience  
Faculty Mentor: David Lo, School of Medicine (Biomedical Sciences)

B 36  Identification of Optimal Overexpression and Purification Conditions of Ribosomal Protein S1 from Escherichia coli (E.coli)  
Yatna Patel, Biochemistry  
Faculty Mentor: Gregor Blaha, Biochemistry

B 37  Auditory Fear Conditioning and Extinction in fmr1 and mmp-9 Knockout Mice  
Kasim Pendi, Biology, Neuroscience  
Faculty Mentors: Iryna Ethell, Biomedical Sciences; Khaleel Razak, Psychology

B 38  Assessing the Effect of Histone Methyltransferase Inhibitors on Plasmodium falciparum var Gene Expression and Genome Structure  
Raphael Reyes, Biology  
Faculty Mentor: Karine Le Roch, Cell Biology and Neuroscience

B 39  Examination of Potential i-Motif Binding Candidates  
Ranier Rivera, Biochemistry  
Faculty Mentor: Thomas Morton, Chemistry

B 40  Assessing the Knowledge, Beliefs, and Attitudes Toward Communities Affected By HIV/AIDS Among Undergraduate and Medical Students  
Patrick Samones, Biochemistry  
Faculty Mentor: Emma Simmons, School of Medicine

B 41  Defining Interactions between RNA Polymerase, NusG, RfaH, and the Ribosome  
Gabriela Sanchez, Biochemistry  
Faculty Mentor: Gregor Blaha, Biochemistry
The Role of Density Dependence on the Life History of the Trinidian Guppy
Rajvee Sanghavi, Biological Sciences
Faculty Mentor: David Reznick, Biology

Escape Behavior and Flight Initiation Distance of the Granite Spiny Lizard, Sceloporus orcutti
Jennifer Shedden, Biology
Faculty Mentor: Timothy Higham, Biology

Morphological and functional consequences of hippocampal demyelination and remyelination-induced recovery
Joselyn Soto, Cell, Molecular, Development Biology
Faculty Mentor: Seema Tiwari-Woodruff, Biomedical Sciences

Macrobrachium Prawn Effects on Rivulus hartii Eggs' Developmental Time
William Tedjo, Biochemistry
Faculty Mentor: David Reznick, Biology

Glycosyl Composition of Polymeric Components of Gums Exuded from Uninfected and Neofusicoccum-Infected Almond Trees
Bassam Theordory, Biochemistry
Faculty Mentor: Eugene A. Nothnagel, Philippe E. Rolshausen, Sebastiaan Bol, Botany and Plant Sciences

Functionalized Tetracene Organic Field Effect Transistors
Dominic Ventre, Bioengineering
Faculty Mentor: Ming Lee Tang, Chemistry

Synthesis of Cobalt Containing Photocatalysts for Direct Alcohol Activation
I-Chieh (Jack) Wang, Biochemistry
Faculty Mentor: David Martin, Chemistry
THANK YOU TO THE CAMPUS PARTNERS WHO MADE THE SYMPOSIUM A GREAT SUCCESS

FACULTY MODERATORS

- Dr. Kurt Anderson, Biology
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- Dr. Paulo Chagas, Music
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- Dr. Hill Harman, Chemistry
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- Dr. Perry Link, Comparative Literature & Foreign Languages
- Dr. Morris Maduro, Biology
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- Dr. Dimitrios Morikis, Bioengineering
- Dr. Thomas Morton, Chemistry
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- Dr. Ellen Reese, Sociology
- Dr. Rebekah Richert, Psychology
- Dr. Joel Sachs, Biology
- Dr. Heidi Waltz, Comparative Literature & Foreign Languages
- Dr. Jingsong Zhang, Chemistry

ORAL PRESENTATION EVALUATORS

- Dr. Emma Aronson, Plant Pathology and Microbiology
- Dr. Nicholas Barth, Earth Sciences
- Elizabeth Claassen Thrush, Educational Initiatives Coordinator
- Dr. Gary Coyne, Director of Evaluation and Assessment
- Jared Dobbins, Coordinator Special Programs
- Dr. Dimitrios Morikis, Bioengineering
- Kathleen Sawa, Academic Internships Coordinator
- Dr. Christine Victorino, Assistant Vice Provost, Undergraduate Education

POSTER JUDGES

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- Dr. Nicolas Barth, Earth Sciences
- Dr. Sherryl Berg-Ridenour, School of Business Administration
- Dr. Steven Brint, Sociology and Vice Provost of Undergraduate Education
- Dr. Liz Davis, Psychology
• Dr. Subir Ghosh, Statistics
• Dr. Katja Guenther, Gender and Sexuality Studies
• Rickerby Hinds, Theatre, Film & Digital Production
• Dr. Darrell Jenerette, Botany
• Dr. Zhiyun Qian, Computer Science and Engineering
• Dr. Ming Lee Tang, Chemistry
• Dr. Darrell Jenerette, Botany
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• Dr. Heidi Waltz, Comparative Literature and Foreign Languages
• Dr. Ruoxue Yan, Chemical and Environmental Engineering

**RESOURCE FAIR PARTICIPANTS**

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**CAREER CENTER**
**CNAS SCIENCE AMBASSADOR PROGRAM**
**FIELDS**
**FLYING SAMARITANS AT UCR**
**GLOBAL ISSUES FORUM**
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**STUDENT SUCCESS PROGRAMS**
**STUDY ABROAD**
**R COURSES**
**UCDC**
**UNIVERSITY HONORS**

**UNDERGRADUATE EDUCATION TEAM**

• Madina Brammer, Administrative Assistant, Undergraduate Education
• Kay Buell, Administrative Assistant, Student Success Programs
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• Elizabeth Claassen Thrush, Educational Initiatives Coordinator
• Dr. Gary Coyne, Director of Evaluation and Assessment
• Vincent Doan, Undergraduate Education Student Worker
• Jared Dobbins, Coordinator Special Programs
• Efren Gomez, Information Technology Director
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• Justin Hoang, Undergraduate Education Student Worker
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