

2014 Interdisciplinary Graduate and Professional Symposium Winners

POSTERS

Vice Chancellor's Prize for Best Poster Presentation, sponsored by the Vice Chancellor of Research - *Complementary Roles of Medial Temporal Lobe Subregions During Spatiotemporal Memory Retrieval*. **Milagros Copara**, Neuroscience; \$1000 | Co-authors: Abdul Hassan; Colin Kyle; Laura Libby; Charan Ranganath; Arne Ekstrom.

2nd Place - *Changes in cortical connectivity of primary somatosensory cortex following early loss of vision in the short-tailed opossum*. **James Dooley**, Neuroscience; \$750 | Co-author: Leah Krubitzer

3rd Place - *Ambient Particulate Matter Enhances Pulmonary Allergic Immune Responses*. **Alejandro Castañeda**, Immunology; \$500 | Co-author: Kent E. Pinkerton.

Honorable Mentions

Antigen-nonspecific memory CD8+ T cells display phenotypic and functional parallels during cancer immunotherapy and influenza infection. **Anthony E. Zamora**, Dermatology; \$100 | Co-authors: Gail D. Sckisel; Julia K. Tietze; Nicole Baumgarth; William J. Murphy.

Increased Pro-inflammatory Cytokines Associated with Increased Abnormal Behaviors in a Non-human Primate Model of Maternal Immune Activation. **Destanie Rose**, Immunology; \$100 | Co-authors: Milo Careaga; Houa Yang; Melissa Bauman; Paul Ashwood.

At the heart of the issue: underlying mechanisms in heart failure. **Rafael Shimkunas**, Pharmacology; \$100 | Co-authors: Zhong Jian; Nipavan Chiamvimonvat; Leighton T. Izu; Kit S. Lam; Ye Chen-Izu.

People's Choice for Best Poster, sponsored by the Vice Chancellor of Student Affairs

1st Place - *Understanding The First Effective Vaccination Against A Cancer: Investigations of Oncogenic Marek's Disease Virus and Vaccines in Chicken*. **Marla C. McPherson**, Integrative Genetics; \$200 | Co-authors: Mary E. Delany; Charmaine M. Robinson.

2nd Place - *Self-Determination as a Function of Economic Pressure and Family Functioning: An SEM Analysis*. **Christina R. Hollifield**, Human Ecology; \$150 | Co-authors: Keith F. Widaman; Katherine J. Conger.

3rd Place - *Investigating the Role of Surfactant in Encapsulating Oil-in-Water Emulsions in a Novel Spray-Dried Alginate Matrix*. **Scott Strobel**, Biological and Agricultural Engineering; \$100 | Co-authors: Amol Chaudhari; Herb Scher; Nitin Nitin; Tina Jeoh.

Honorable Mentions

Impact of Post-Pretreatment Conditioning on Enzyme Accessibility and Water Interactions in Alkali Pretreated Rice Straw. **Nardrapee Karuna**, Biological and Agricultural Engineering; \$50 | Co-authors: Lu Zhang; Jeffrey H. Walton; Emma R. Master; Michael J. McCarthy; Tina Jeoh.

Changes in cortical connectivity of primary somatosensory cortex following early loss of vision in the short-tailed opossum. **James Dooley**, Neuroscience; \$50 | Co-author: Leah Krubitzer.

STUDENT ORGANIZED SESSION

Provost's Prize for Best Student Organized Session (Co-winners)

Leveraging your academic training for a career in Science/Public Policy and Advising. **Amandeep Kaur**, Physics; \$1,500 | Co-authors: Erin Arms; Matt Robbins.

Bridging Disciplinary Barriers to Generate Robust Approaches to Vascular Disease. **Greg Westin**, School of Medicine; \$1,500 | Co-authors: Matthew Silvestrini; Sophia Fang; Joanna Hale; Haseein Fatakdawala.

PEOPLE'S CHOICE FOR BEST PANEL, Sponsored by the Vice Chancellor of Student Affairs

Leveraging your academic training for a career in Science/Public Policy and Advising. **Amandeep Kaur**, Physics; | Co-authors: Erin Arms; Matt Robbins.

ORAL PRESENTATIONS

Chancellor's Grand Prize for Best Oral Presentation* - *Language, Music, and the Brain: Word, chord, and nonobject processing in the 'Visual Word Form Area'.* **Michelle Cohn**, Linguistics; \$5,000 | Co-author: David Corina.

Dean's Prize for Best Oral Presentation in Nursing - *SBA Improves Pregnancy Outcomes; Exploring Why Some Angolan Women Chose Home Birth.* **Stacy L. Alves**, Nursing; \$1,000.

Dean's Prize for Best Oral Presentation in Biological Sciences - *Discovering the Function of the Stick Insect Midgut Appendices.* **Matan Shelomi**, Entomology; \$1,000 | Co-authors: Lynn S. Kimsey; Brian R. Johnson.

Dean's Prize for Best Oral Presentation in Education - *A Focus on Form Approach to Teaching L2 French Morphology.* **Abram J. Jones**, Education; \$1,000.

Dean's Prize for Best Oral Presentation in Engineering - *Imaging coronary arteries using a bimodal catheter combining fluorescence lifetime imaging (FLIm) and intra-vascular ultrasound (IVUS).* **Hussain Fatakdawala**, Biomedical Engineering; \$1,000 | Co-authors: Dimitris Gorpas; Julien Bec; John W. Bishop; Jeffrey Southard; Laura Marcu.

Dean's Prize for Best Oral Presentation in Humanities, Arts, and Cultural Studies - *"This is Not the End of Language": Exploring the Materiality of Navajo Poetics in Orlando White's 'Ats'iits'in'.* **Patricia Killelea**, Native American Studies; \$1,000.

Dean's Prize for Best Oral Presentation in Mathematical and Physical Sciences *Highly efficient one-pot multienzyme (OPME) synthesis of glycans with fluoros-tag assisted purification.* **Joel Hwang**, Chemistry; \$1,000 | Co-authors: Hai Yu; Xi Chen.

Dean's Prize for Best Oral Presentation in Social Sciences* - *Language, Music, and the Brain: Word, chord, and nonobject processing in the 'Visual Word Form Area'.* **Michelle Cohn**, Linguistics; \$1,000 | Co-author: David Corina.

Dean's Prize for Best Oral Presentation in Medicine - *Neural Mechanisms for Attention: Covariance Optimization.* **Douglas Totten**, Neuroscience; \$1,000 | Co-author: William DeBello.

Dean's Prize for Best Oral Presentation in Veterinary Medicine - *High-Resolution Manometry for Improved Clinical Diagnosis of Esophageal Disorders.* **Tarini Ullal**, School of Veterinary Medicine; \$1,000 | Co-authors: Stanley Marks; Peter Belafsky; Jeffrey Conklin.

PEOPLE'S CHOICE FOR BEST ORAL PRESENTATION, Sponsored by the Vice Chancellor of Student Affairs

Improving Quality of Life, Motor and Cognitive Functioning in people with Parkinson's Disease through Dance Movement Training. **Maria Ventura**, Psychology; \$200 | Co-authors: Jessica Ross; Karen Sigvardt; Elizabeth Disbrow.

Honorable Mentions, People's Choice for Best Oral Presentation

Ecological impacts of lobster condos on Bahamian marine species. **Angela Doerr**, Ecology; \$10 gift card.

Does production of methane in the gut affect glucose tolerance? **Bret Rust**, Nutritional Biology; \$10 gift card. | Co-authors: William Horn; Eun Bae Kim; Maria Marco; Danielle Cooper; Nancy Keim.

Illuminating ion channel activity in cells with glowing tarantula toxins. **Kenneth Eum**, Physiology; \$10 gift card. | Co-authors: Drew Tilley; Sebastian Fletcher-Taylor; Vladimir Yarov-Yarovoy; Jon T. Sack.

Isobutanol production from cellobiose in Escherichia coli. **Shuchi H. Desai**, Microbiology; \$10 gift card. | Co-authors: Christine A. Rabinovitch-Deere; Yohei Tashiro; Shota Atsumi.

Learner achievement in Mutsun revival: Report on a linguist-learner partnership. **Lajos Szoboszlai**, Linguistics; \$10 gift card.

Enhancing the therapeutic value of mesenchymal stem cells for bone defects and heart attacks. **Allison Hoch**, Biomedical Engineering; \$10 gift card. | Co-author: J. Kent Leach.

Neural Mechanisms for Attention: Covariance Optimization. **Douglas Totten**, Neuroscience; \$10 gift card. | Co-author: William DeBello.

From Pond Scum to Biofuel: How Algae Can Power Our World. **Lisa Anderson**, Chemistry; \$10 gift card.

Dynamic whole brain functional connectivity during episodic memory retrieval. **Amber Schedlbauer**, Neuroscience; \$10 gift card. | Co-authors: Arne Ekstrom; Milagros Copara; Andrew Watrous.

RNA toxicity in FXTAS caused by CGG repeat is independent of FMR1 gene. **Janet Keiter**, Neuroscience; \$10 gift card. | Co-authors: Emily Doisy; Robert Berman; Stephen Noctor.

The critical role of secreted IgM in autoimmune disease prevention.

Trang Nguyen, Immunology; \$10 gift card. | Co-authors: Rebecca A. Elsner; Nicole Baumgarth.

Nanomaterials: Building from the Bottom Up. **Jorgen Rufner**, Chemical Engineering and Materials Science; \$10 gift card. | Co-authors: Klaus van Benthem; Ricardo Castro.

Imaging coronary arteries using a bimodal catheter combining fluorescence lifetime imaging (FLIm) and intra-vascular ultrasound (IVUS).

Hussain Fatakdawala, Biomedical Engineering; \$10 gift card. | Co-authors: Dimitris Gorpas; Julien Bec; John W. Bishop; Jeffrey Southard; Laura Marcu.

Health Education on Maternal and Child Mortality at Ho Municipal Hospital, Ghana. **Jerry John Nutor**, School of Nursing; \$10 gift card.

Environmental influences on microbial mat biogeography in ice-covered Lake Fryxell, Antarctica. **Tyler Mackey**, Earth and Planetary Sciences; \$10 gift card. | Co-authors: Hawes, I; Sumner, DY; Forrest, AL; Jungblut, AD.

PERFORMANCES

Dean's Prize for Best Performance* - *Take off your Genes: Seducing Domesticated Plants & Animals to Depend on Humans.* **Donnelly A. West**, Plant Biology; \$1,000.

2nd *Mariachi Cielito Lindo.* Dir.: **Miguel A. Zepeda Torres**, Spanish and Portuguese; \$500.

*Sponsored by the Dean of Graduate Studies and Vice Provost of Graduate Education

PEOPLE'S CHOICE FOR BEST PERFORMANCE, Sponsored by the Vice Chancellor of Student Affairs

Take off your Genes: Seducing Domesticated Plants & Animals to Depend on Humans. **Donnelly A. West**, Plant Biology; \$100.

ART WORK

Dean's Prize for Best Art*

Behind Closed Doors. **Cody Ross**, Anthropology; \$1000.

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Congratulations to all of our winners this year!
Please join us for our 2015 IGPS Symposium, April 2-3, 2015!