# **Student Research Symposium Awardees 2012- 2013**

The following students received an outstanding presentation award at the 2012 Cal State L.A. Student Symposium on Research, Scholarship and Creative Activities. Congratulations to all!

#### **Oral Presentations**

# **Group 1 - Behavioral and Social Sciences**

# Wendy Dorenbush

M.A. Anthropology
Lost Settlements: Rediscovering the Maya Settlement and Landscape of Cahal Pech, Belize

Faculty Mentor: James Brady

# **Group 2 - Behavioral and Social Sciences**

## Tony Ye

M.A. Psychology

Cognitive Inflexibility After Adolescent Methamphetamine Exposure

Faculty Mentor: Alicia Izquierdo

## **Group 3 - Engineering and Computer Science**

#### **Garth Herman**

M.S. Electrical Engineering

Hybrid Routing Algorithms for Navigation Control of a Semi-Autonomous Robotic Platform

Faculty Mentors: Charles Liu and Helen Boussalis

## **Group 4 - Engineering and Computer Science**

# Azizkhan Pathan Joseph David Wells Benjamin Liu

B.S. Mechanical Engineering Experimental Sounding Supersonic Rocket Design Faculty Mentor: Darrell Guillaume

# **Usama Tohid**

M.S. Mechanical Engineering

# **Group 5 - Biological Sciences**

# **Kathy Trang**

B.A. Psychology and B.S. Biology

Alternative Splicing: Sexual Differentiation at the Transcriptome

Faculty Mentor: Houng-Wei Tsai

#### **Andrea Herrera**

M.S. Biology

Determining the mechanism of inhibition of mitochondrial Ca2+ overload by the cocoa flavanol ()-epicatechin as a means of conferring cardioprotection during ischemiareperfusion

Faculty Mentor: Katrina Yamazaki

# **Group 6 - Humanities and Letters**

## **Krystal Messer**

M.A. History

Taken for a Ride: How General Motors Drove the Pacific Electric Railway Out of Business

Faculty Mentor: Choi Chatterjee

#### **Robert Brown**

M.A. Political Science

The Path to Insurgency: A Comparative Analysis of Afghanistan, Colombia, and Angola

Faculty Mentor: Emily Acevedo

# Group 7 - Biological and Chemical Sciences

#### **Michael Martinez**

B.S. Chemistry

Identification of Benzo[a]pyrene Diones as Net Sensitizers of Singlet Oxygen
Faculty Mentors: Krishna Foster and Matias Selke

# **Poster Presentations**

# **Behavioral and Social Sciences**

Ana Fonseca Phoebe Lee Sibella Salazar Liana Kostaudyan

M.A. Psychology

Maintenance of Latino Culture among Latino Young Adults and Parents

Faculty Mentor: Jessica Dennis

**Guadalupe Gutierrez,** B.A. Psychology

Sandy Wang, M.A. Psychology

Parenting Behavior and School-Aged Bullying Experience: Association with Self-Esteem in Young

Adults

Faculty Mentors: Munyi Shea and Robert Kennison

# **Biological and Agricultural Sciences**

# **Oswaldo Escobar**

B.S. Microbiology *Improvement of Polarization of Human Bronchial Epithelial Cells Grown at Air-Liquid Interface with Retinoic Acid* Faculty Mentor: Edith Porter

## **Natalie Rodriguez**

M.S. Biology

Epistatic Analysis of Candida albicans Yck $2\Delta/\Delta$  Strain: Implications of gene expression profile on mutant morphology and stress response

Faculty Mentor: Hyunsook Park

# Jazma Tapia

B.S. Microbiology

The Role of Antimicrobial Lipids: Potential Novel Innate Immune Factors Preventing Intrauterine

Infections

Faculty Mentor: Edith Porter

# **Engineering and Computer Science**

# **Anahis Rincon**

B.S. Biochemistry

Optimization of Centrifugal Microfluidic Disc Design for Separations via Monolithic Silica discs Faculty Mentor: Frank Gomez

# Health, Nutrition, and Clinical Sciences

## **Eileen Gonzalez**

B.S. Microbiology

Mitochondrial Dynamics in the Type 2 Diabetic Heart

Faculty Mentor: Katrina Yamazaki

# **Physical and Mathematical Sciences**

# **Mary Arrastia**

B.S. Chemistry and Math

Design and Development of a Novel Microfluidic Direct Methanol Fuel Cell

Faculty Mentor: Frank Gomez

## Maria Ortega

M.S. Chemistry with Biochemistry option

Fabrication and solvent studies of thiolene optical adhesive 81 microfluidic chips and their use in chemical separations and reactions

Faculty Mentor: Frank Gomez