Undergraduate Research Reception and Poster Session  
October 4, 2011

Yaadwinder Bal, Holly Nguyen and Dr. Linda Roberts – Chemistry  
*Differential effect of detergent suggests different aggregated structures in wild-type vs. amyloid*  
*Apolipoprotein A-I*

Sage Bauers and Dr. William DeGraffenreid – Physics and Astronomy  
*Effects of mixing parameters on the optical qualities of aerosols*

Nate Bell, Nate Shanklin and Dr. Ronald M. Coleman – Biological Sciences  
*Effect of temperature on aggression of the convict cichlid*

Steve J. Bertolani and Dr. Benjamin F. Gherman – Chemistry  
*Computational study of hydrogen bonding residues and thiolate coordination in the active site of eubacterial peptide deformylase*

Sam Borstein and Dr. Ronald M. Coleman – Biological Sciences  
*Can melanophore development in the ontogeny of cichlids be used as a phylogenetic character?*

Svetlana N. Chernioglo, Lynn Q. Nguyen and Dr. John D. Spence – Chemistry  
*Syntheses and photoreactivity of electron rich arenediynes*

Alejandra Cortes, J. Cheng, M. Estrada, A. Koons, K. Lardner, Y Nikitin  
and Dr. Enid T. Gonzalez – Biological Sciences  
*Bacterial community analysis of the Pinus caneriensis rhizosphere*

Michael Davis, Dana Carper, Dr. Enid T. Gonzalez and Dr. Jamie M. Kneitel – Biological Sciences  
*Bacterial diversity in Mather vernal pools*

Aiman Diza, Courtney Morgan and Dr. Nicholas Ewing – Biological Sciences  
*Assembling reporter gene constructs as tools to test gene expression*

Alexandria Domagala, Yelena Gapchenko and Dr. James Miranda – Chemistry  
*Synthesis of metal salens for catalytic electroreductive cyclization*

Maribel Escobedo and Dr. Mary McCarthy Hintz – Chemistry  
*Effects of Arnica montana, Theobroma cacao and Cinnamomum verum on breast cancer cells*

Ramiro P. Fernandez and Dr. Benjamin F. Gherman – Chemistry  
*Computational study of the cyclization reactions of enediynes with conjugated and quinoxaline-based supporting groups*
Joe Gomes and Dr. Kelly McDonald – Biological Sciences
Using public databases to enhance learning of molecular biology and genetics in a lower division college biology course

Jasmine Hamilton and Dr. Ronald M. Coleman – Biological Sciences
Gastropod diversity in the upper intertidal zone of Cabo Blanco, Costa Rica

Sonia Hawkins, Lauren Musgrove and Dr. Linda Roberts – Chemistry
The effect of pH and temperature on Apolipoprotein A-I amyloid fibril formation

Nicole Horton and Dr. John D. Spence – Chemistry
Detecting excimer emission in aromatic arenediyynes

Ashley C. Jackson and Dr. Mary McCarthy Hintz – Chemistry
Determination of the cytotoxic potency of Osha and Oshala root extracts on breast cancer cells

Sylvanna V. Krawczyk and Dr. Benjamin F. Gherman – Chemistry
Computational analysis of carbonic anhydrase biomimetic reactivity via novel metal-hydrosulfide complexes

Clarence Leung and Dr. Robin Datel – Geography
Places perceived as Chinese in Sacramento

Daniel Logan and Dr. Robin Datel – Geography
From the Fertile Crescent to the Central Valley: Iraqi refugees and the Arab-American Community of Sacramento County

Nick Macias and Dr. Ronald M. Coleman – Biological Sciences
Potential direct and indirect effects of omnivorous shrimps on mayfly naiaids in a tropical island stream: a laboratory study

Maria Martinez, Jennifer Cash, Donald K. Walter - Sacramento City College and San Diego State
The Kepler Observatory used to study semi-regular variables

Alexandra Moskaleva – Physics and Astronomy, and CERN, Switzerland
Investigating a candidate for the ATLAS Muon System Upgrade

Alexandra Moskaleva – Physics and Astronomy and Dr. Mani Tripathi, University of California, Davis
Developments in gold-stud bump bonding applications

Edgar Padilla-Valdivia and Dr. Shannon Datwyler – Biological Sciences
Using DNA sequence data to examine evolutionary relationships in Penstemon

Grace Paragas and Dr. Katherine McReynolds – Chemistry
Creation of amino tris-core for use in glycodendrimer synthesis

Sigurd Raudes – Cosumnes River College and Dr. Mary McCarthy Hintz – Chemistry
The effects of Ginkgo Biloba seeds, Yunnan Biyao and Dracaena Cochinensis on breast cancer cells

Ben Rinn and Dr. Robin Datel – Geography
Eating within the community

Manuel Sabin and Dr. Coskun Cetin – Mathematics and Statistics
Concepts and applications for propagation of error techniques on statistical parameter estimation
Manuel Sabin, Michel Paniagua, Jacob Russell, Dr. Coskun Cetin and Dr. Rafael Diaz – Mathematics And Statistics
Sample size computations for a given level of statistical power: A tale of two tails

A. J. Sisneros and Dr. Vera Margoniner – Physics and Astronomy
The effect of math skills in the Physics 5A course

Sergio Toscano and Dr. John D. Spence – Chemistry
Improved syntheses of symmetrical arenediyynes

Joel Unpingco and Dr. Katherine McReynolds – Chemistry
Divergent synthesis of an octavalent carboxy-terminated core for glycodendrimer synthesis

Clayton Visger and Dr. Shannon Datwyler – Biological Sciences
A cytogeographical survey of California Penstemon section Saccanthera subsection heterophylli

Ryan Voss and Dr. Vera Margoniner – Physics and Astronomy
Galaxy Evolution in the Deep Lens Survey: The Butcher-Oemler Effect

Kanyeemngtiang Yang and Dr. Mary McCarthy-Hintz – Chemistry
The effects of Aloe vera, Aloe arborescens and Mentha peperita on breast cancer cells
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