Emilio Leal Cárdenas

Contact Information

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Research Interests

Total Synthesis, Medicinal Chemistry, and Natural Products

Education

California State University, Fresno

B.S. in Chemistry **August 2009 – May 2014**
– GPA: 3.67

Selected Publications

Schott, J. T.; Mordaunt, C. E.; Vargas, A. J.; Leon, M. L.; Chen, K. H.; Singh, M.; Satoh, M.; Cardenas, E. L.; Maitra, S.; Patel, N. V.; de Lijser, P. H. J. "Effects of structural and electronic characteristics of chalcones on the activation of peroxisome proliferator-activated receptor gamma (PPARγ)" submitted to *Bull. Pharm. Soc. Japan.*

Grants

National Science Foundation Grant – METRO Center **Spring 2013 – Present**
Grant – GEO–0914718

National Science Foundation Grant – Isoprene Grant **Fall 2012 – Present**
Grant – 1035176 and 0914718

Honors and Awards

CSU-LSAMP Academic Year Research Program **Fall 2013**

CSU, Fresno Undergraduate Research Award (Semi-Annual) **Spring 2013**

CSU, Fresno ASI Academic Committee rGrant (Annual) **Fall 2012**

Professional Experience

California State University, Fresno

Student Assistant **August 2013 – Present**
Processing NMR samples for the organic chemistry undergraduate teaching laboratories.

APPL Inc.

Course Service Project **August 2013 – Present**
Providing EPA standard water quality testing for the Fresno County of Education's Scout Island Facility.

California State University, Fresno

Undergraduate Research Assistant **December 2011 – Present**
Utilizing wet organic chemistry techniques to synthesize and characterize novel organic molecules.

Presented Works

College of Science and Mathematics of – Fresno, CA **May 2013**
Student Research and Achievements
Synthesis, Purification, Characterization, and Gas Phase Studies of Atmospherically Relevant and Model Hydroxy Nitrate Esters

Central California Research Symposium – Fresno, CA **April 2013**
Development of small chalcones and chalcone-like organic molecules for apolipoprotein E (apoE) modulation through structure activity relationship (SAR) study

Geosciences METRO Open Night – Fresno, CA **March 2013**
Development of small chalcones and structural analogs of chalcones for apolipoportein E (apoE) modulation through a structure activity relationship (SAR) study

Technical Skills

Nuclear Magnetic Resonance Spectroscopy, Infared Spectroscopy, Gas and Column Chromatography, UV-Vis Spectroscopy, Atomic Absorption Spectroscopy, Rotary Evaporator, High Vacuum Pump, pH Meter Electrode