

## BIOGRAPHICAL SKETCH

**NAME: Chester E. Rodriguez**

**POSITION TITLE: Biologist**

### EDUCATION/TRAINING

Institution	Degree	Year	Field of Study
University of California, Los Angeles	Ph.D	1999	Pharmacology
San Francisco State University	M.S	2005	Chemistry
San Francisco State University	B.S/Minor	1997	Biochemistry/Mathematics

### PROFESSIONAL EXPERIENCE

- 2006-Present Postdoctoral Fellow, National Center for Computational Toxicology, USEPA, NC  
2006 Physiologically-Based Pharmacokinetic Modeling Trainee, CIIT, NC  
2003 Graduate Teaching Instructor. UCLA Department of Pharmacology.  
2000 Graduate Research Associate. UCLA Olympic Laboratory.  
1997-99 Adjunct Faculty. San Francisco State University Department of Chemistry.  
1998 Organic Chemistry Instructor. San Francisco State University  
1996-97 Mathematics Instructor. San Francisco State University.

### AWARDS AND HONORS

- 2006 Environmental Protection Agency On-The-Spot (OTS) Award  
2002 -3 UCLA Eugene Cota Robles Fellowship Recipient.  
2001-2 University of California Toxic Substances Research and Teaching Program  
(UC TSR&TP) Graduate Student Fellowship.  
2000-1 University of California Toxic Substances Research and Teaching Program  
(UC TSR&TP) Graduate Student Fellowship.  
1999-00 UCLA Eugene Cota Robles Fellowship Recipient.  
1998-99 Graduate Assistance in Areas of National Need (GAANN) Fellowship Recipient.  
1998 San Francisco State University Alumni Association Outstanding Graduate Student.  
1993 San Francisco State University Athletic Arete Award (Track & Field).  
1991, 92 National Hispanic Scholarship Recipient.

### PROFESSIONAL ORGANIZATIONS

- Society of Toxicology (SOT)  
Research Triangle Park Drug Metabolism Group (RTP-DMG)

## PUBLICATIONS

1. Predicting Age-Appropriate Pharmacokinetics of Six Volatile Organic Compounds in the Rat Utilizing Physiologically Based Pharmacokinetic Modeling.  
**Chester E. Rodriguez**, Deirdre A. Mahle, Jeff M. Gearhart, David R. Mattie, John C. Lipscomb, Robert S. Cook, and Hugh A. Barton.  
Toxicological Sciences 98(1), 43-56 (2007)
2. 9,10-Phenanthraquinone Induces DNA Deletions and Forward Mutations via Oxidative Mechanisms in the Yeast *Saccharomyces Cerevisiae*  
**Chester E. Rodriguez**, Zhanna Sobol, and Robert H. Schiestl  
Toxicology in Vitro (In Press, 2007)
3. The Interactions of 9,10-Phenanthrenequinone with Glyceraldehyde-3 Phosphate Dehydrogenase, a Potential Site for Toxic Actions  
**Chester E. Rodriguez**, Jon M. Fukuto, Keiko Taguchi, John Froines, and Arthur K. Cho.  
Chemico-Biological Interactions 155, 97-110 (2005).
4. An Examination of Quinone Toxicity Using the Yeast *Saccharomyces Cerevisiae* Model System  
**Chester E. Rodriguez**, Masaru Shinyashiki, John Froines, Rong Chun Yu, Jon M. Fukuto, and Arthur K. Cho. Toxicology 201, 185-196 (2004).
5. Inhibition of Glutamate Carboxypeptidase II by Phosphonamidothionate Derivatives of Glutamic Acid.  
**Chester E. Rodriguez**, Haiyan Lu, A. R. Martinez, Y. Hu, Alan Brunelle, and Clifford E. Berkman. Journal of Enzyme Inhibition 16(4), 359-365 (2001).
6. Competitive Inhibition of a Glutamate Carboxypeptidase by Phosphonamidothionate Derivatives of Glutamic Acid  
**Chester E. Rodriguez**, Haiyan Lu, Trang T. Dinh, Karyn L. Mlodnosky, Azar Dastgah, Vinh Q. Lam, C. Blake Nichols, and Clifford E. Berkman  
Bioorganic & Medicinal Chemistry Letters 9, 1415-1418 (1999).
7. Evaluation of Phosphorus-Containing Inhibitors of  $\gamma$ -Glutamyl Hydrolase  
**Chester E. Rodriguez**, H. Michael Holmes, Karyn L. Mlodnosky, Vihn Q. Lam, and Clifford E. Berkman.  
Bioorganic & Medicinal Chemistry Letters 8, 1521-1524 (1998).
8. On the Interaction between Glyceraldehyde-3-Phosphate Dehydrogenase and Airborne Particles:Evidence for Electrophilic Species.  
Masaru Shinyashiki, **Chester E. Rodriguez**, Emma W. Di Stefano, Constantinos Sioutas, Ralph J Delfino, Yoshito Kumagai, John R Froines, and Arthur K. Cho  
Atmospheric Environment (Submitted, 2007).

9. Selective Inhibition of Yeast Glycolysis by Nitroxyl (HNO): A Mechanism of HNO Toxicity in the Yeast *Saccharomyces cerevisiae* and Possible Implications to HNO Pharmacology/Physiology.

Brenda E. Lopez, **Chester E. Rodriguez**, Mochtar Pribadi, Natalie Cook, Masaru Shinyashiki, and Jon M. Fukuto. Archives of Biochemistry and Biophysics, 442, 140-148 (2005).

10. The Yeast *Saccharomyces Cerevisiae* as a Model System for the Study of Fundamental Nitrogen Oxide Biochemistry

Masaru Shinyashiki, Brenda E. Lopez, **Chester E. Rodriguez**, Jon M. Fukuto  
Methods in Enzymology 396, 301-316 (2005).

11. Determination of Four Quinones in Diesel Exhaust Particles, SRM 1649a, and Atmospheric PM<sub>2.5</sub>

Arthur K. Cho, Emma Di Stefano, Ying You, **Chester E. Rodriguez**, Debra A. Schmitz, Yoshito Kumagai, Antonio H. Miguel, Arantzazu Eiguren-Fernandez, Takahiro Kobayashi, Ed Avol, and John R. Froines.

Aerosol Science and Technology, 38(S1), 68-81 (2004).