

# Kristofer J. Haushalter, Ph.D.

## Postdoctoral Scholar

4089 Nobel Dr. #24, San Diego, CA 92122

Phone: (408) 757-1116      E-mail: khaushal@ucsd.edu

### Education:

B.S.	Biochemistry, UC Santa Barbara, CA	June 2010
M.S.	Chemistry, UC San Diego, CA	June 2012
Ph.D.	Chemistry (with a Specialization in Multi-Scale Biology), UC San Diego, CA	Sept. 2016

### Awards and Fellowships:

- ***Interfaces Graduate Training Program***  
Multi-Scale Analysis of Biological Structure and Function 2011-2012  
Advisors: Dr. Susan Taylor (Chemistry & Biochemistry, Pharmacology)  
Dr. Hemal Patel (Anesthesiology)

### Professional Experience:

#### Research Experience:

- ***Postdoctoral Scholar*** 10/2016 – present  
Dept. of Pharmacology, University of California San Diego (UCSD); La Jolla, CA  
Advisor: Dr. Paul Insel (Professor of Pharmacology, UCSD)
- ***Graduate Researcher*** 9/2010 – 9/2016  
Dept. of Chemistry and Biochemistry, University of California San Diego, CA  
Advisors: Dr. Susan S. Taylor (Professor Chemistry & Biochemistry, Pharmacology; UCSD)  
Dr. Hemal H. Patel Laboratories (Professor of Anesthesiology; UCSD)
- ***Volunteer Undergraduate Research Intern*** 9/2009 – 5/2010  
Dept. of MCDB, University of California, Santa Barbara, CA  
Advisor: Dr. Dzwokai Ma (Professor of Molecular, Cellular, & Developmental Biology; UCSB)
- ***NSF REU Research Intern*** Summers, 2006-2008 & 2010  
Parallel Synthesis Tech. Inc. (PSTI), Santa Clara, CA  
Advisor: Dr. Robert Haushalter (Founder and President; PSTI)

#### Teaching Experience:

- ***Graduate Student – Teaching Assistant*** 2010-2012  
Dept. of Chemistry and Biochemistry, UC San Diego, CA  
4 academic quarters of teaching experience:  
General Chemistry (2x), Organic Chemistry Laboratory, Protein Biochemistry Laboratory

## **Publications:**

1. M. Sastri, **K. J. Haushalter**, M. Panneerselvam, P. Chang, H. Fridolfsson, J. C. Finley, D. Ng, J. M. Schilling, A. Miyanohara, M. E. Day, H. Hakozaki, S. Petrosyan, A. Koller, C. C. King, M. Darshi, D. K. Blumenthal, S. S. Ali, D. M. Roth, H. H. Patel, and S. S. Taylor (2013). *A kinase interacting protein (AKIP1) is a key regulator of cardiac stress*. Proceedings of the National Academy of Sciences of the United States of America. 110(5):E387-E396.
2. I. R. Niesman, N. Zemke, H. N. Fridolfsson, **K. J. Haushalter**, K. Levy, A. Grove, R. Schnoor, J. C. Finley, P. M. Patel, D. M. Roth, B. P. Head, H. H. Patel (2013). *Caveolin isoform switching as a molecular, structural, and metabolic regulator of microglia*. Molecular and Cellular Neuroscience. 56:283-297.
3. Y. Guo, M. Darshi, Y. Ma, G. A. Perkins, Z. Shen, **K. J. Haushalter**, R. Saito, A. Chen, Y. S. Lee, H. H. Patel, S. P. Briggs, M. H. Ellisman, J. M. Olefsky, S. S. Taylor (2013). *Quantitative Proteomic and Functional Analysis of Liver Mitochondria from High Fat Diet (HFD) Diabetic Mice*. Molecular & Cellular Proteomics. 12(12): 3744-58. xiv
4. A. Chan, J. Jiang, A. Fridman, L. T. Guo, G. D. Shelton, M. Liu, C. Green, **K. J. Haushalter**, H. H. Patel, J. Lee, D. Yoon, T. Burney, D. Mukai, S. B. Mahon, M. Brenner, R. B. Pilz, G. R. Boss (2015). *Nitrocobinamide, a New Cyanide antidote That Can Be Administered by Intramuscular Injection*. J. Med. Chem. 58(4): 1750-1759.
5. J. Jiang, A. Chan, S. Ali, A. Saha, **K. J. Haushalter**, W. M. Lam, M. Glasheen, J. Parker, M. Brenner, S. B. Mahon, H. H. Patel, R. Ambasudhan, S. A. Lipton, R. B. Pilz & G. R. Boss (2016). *Hydrogen Sulfide - Mechanisms of Toxicity and Development of an Antidote*. Scientific Reports. 6: 20831.
6. L. S. Hoe, J. M. Schilling, A. R. Busija, **K. J. Haushalter**, V. Ozberk, M. Keshwani, D. M. Roth, E. Du Toit, J. P. Headrick, H. H. Patel, J. N. Peart. (2016). *Chronic  $\beta$ 1-Adrenoceptor Blockade Impairs Ischaemic Tolerance and Preconditioning in Murine Myocardium*. Euro. J. Pharm. 789: 1-7.
7. **K. J. Haushalter**, S. Vetcha, R. C. Haushalter (2016). *Multiplex Flow Assays*. ACS Omega. 1(4): 586-599.
8. **K. J. Haushalter**, D. E. Casteel, A. Raffener, E. Stefan, H. H. Patel, S. S. Taylor (2017). *PKGI $\alpha$  Phosphorylation of PKA Regulatory Subunit RI $\alpha$  in Cells: Crosstalk between PKG/PKA Pathways*. (Manuscript under Review).
9. **K. J. Haushalter**, J. M. Schilling, M. Sastri, G. Perkins, S. S. Taylor, and H. H. Patel (2017). *ROS-Dependent Loss of PKA Regulatory Subunit RI $\alpha$  in Cardiac Ischemia/Reperfusion Injury*. (Manuscript in Preparation).

## References:

1. **Dr. Paul Insel**, *Professor of Pharmacology, UC San Diego*  
Relationship: Postdoctoral Scholar Advisor  
E-mail: pinsel@ucsd.edu  
Phone: 858.534.2295
2. **Dr. Susan S. Taylor**, *Professor of Chemistry & Biochemistry, Pharmacology, UC San Diego*  
Relationship: Doctoral Thesis Advisor  
E-mail: staylor@ucsd.edu  
Phone: 858.534.3677
3. **Dr. Hemal H. Patel**, *Professor of Anesthesiology, UC San Diego*  
Relationship: Doctoral Thesis Co-Advisor  
E-mail: hepatel@ucsd.edu  
Phone: 858.534.4906