

Curriculum Vita

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FACULTY APPOINTMENT

2009-present: Associate Professor of Chemistry, Department of Biology & Chemistry, Azusa Pacific University

2007-present: Director of Undergraduate Research, Office of Undergraduate Research, Azusa Pacific University.

2006-2009: Assistant Professor of Chemistry, Department of Biology & Chemistry, Azusa Pacific University.

EDUCATION

Yale University, New Haven, CT, 2002-2006
National Institute of Health Postdoctoral Fellow
Area of study: Bioorganic chemistry

University of California, Davis, Davis, CA, 1996-2002
Ph.D. 2002, Organic Chemistry
Area of study: Organic synthesis, combinatorial chemistry.

University of California, Irvine, Irvine, CA, 1991-1996
B.S., 1996, Chemistry
Undergraduate research thesis: Role of Neuropeptide Y in the rat-tail & femoral arteries.

HONORS, GRANTS & ACTIVITIES

1. Project SEED research titled "Anthropomorphic Molecules Revisited." Funded by APU and the American Chemical Society, Summer 2009.
2. American Chemical Society Certificate of Appreciation. Recognition for commitment and outstanding service to the American Chemical Society Project SEED program. August 2008.
3. San Gabriel Valley Tribune article titled "Action hero of the molecular kind" described my undergraduate research program at APU. Local News Pg A3. July 4th, 2008.

4. APU Media relations webpage titled "Azusa High School Student Joins University Science Research Team." June 26th, 2008.
<http://www.apu.edu/media/release/scholarship/12512/>
5. Invitation to submit a full proposal to the Camille and Henry Dreyfus Special Grant Program in the Chemical Sciences titled "Project Pipeline: Early Undergraduate Research Experience as a Platform for Scholarship and Mentorship for Minority High School Students." June 17th, 2008.
6. Project SEED Grant (\$1,500 from the American Chemical Society) titled "Synthesis of Azacyanines." February 2008.
7. APU Life article titled "Research Revisited: Scholarship Made Personal." Volume 21, front cover and page 19. Spring 2008.
8. American Chemical Society Western Regional Meeting, San Diego. Azusa High School junior Hector Correa, who conducted research under my supervision, was named one of the five recipients of the undergraduate and graduate student poster presentation awards. October 2007.
9. APU Media relations webpage titled "Local High School Student Expands Learning Through University Research." August 29th, 2007.
<http://www.apu.edu/media/release/scholarship/10872/>
10. Project SEED Grant (\$1,000 from the American Chemical Society) titled "Role of Organic Synthesis in Drug Discovery." February 2007.
11. Azusa Pacific University Faculty Research Grant (\$2,500) titled "Be Fruitful and Polymerize... Investigating the Ribosome Catalyzed Protein Synthesis." Spring 2007.
12. Azusa Pacific University Creative Teaching Grant (\$1,500) titled "Seeing is Believing! Using Molecular Modeling Technology to Enhance the Undergraduate Organic Chemistry Curriculum." Spring 2007.
8. Ruth L. Kirschstein National Research Service Award for Individual Postdoctoral Fellowship. Sponsored by the National Institute of Health/National Institute of General Medical Sciences. 2004-2006.
9. Teaching Award in Chemistry. Sponsored by DOW Chemicals and UC Davis. 1998.
10. Chemistry Honors Program. Department of Chemistry, UC Irvine. 1996.
11. Excellence in Biological Sciences. Department of Biological Sciences, UC Irvine. 1994.

RESEARCH PUBLICATIONS

1. Kevin S. Huang,* Nicolas Carrasco,* Emmanuel Pfund, and Scott A. Strobel, "Transition state chirality and role of the vicinal hydroxyl in the ribosomal peptidyl transferase reaction," *Biochemistry*, **2008**, *47*, 8822-8827 (*these authors contributed equally).
2. Kevin S. Huang, Joshua S. Weinger, Ethan B. Butler, and Scott .A. Strobel, "Regiospecificity of the peptidyl tRNA ester within the ribosomal P-site," *Journal of the American Chemical Society*, **2006**, *128*, 3108-3109.
3. T. Martin Schmeing, Kevin S. Huang, Scott A. Strobel, and Thomas A. Steitz, "An induced fit mechanism to promote peptide bond formation and exclude hydrolysis of peptidyl-tRNA," *Nature*, **2005**, *438*, 520-524.
4. T. Martin. Schmeing,* Kevin S. Huang,* Scott .A. Strobel, and Thomas A. Steitz, "The mechanism of peptidyl transferase as defined by the structure of improved ground and transition state complexes with the 50S subunit," *Molecular Cell*, **2005**, *20*, 437-448 (*these authors contributed equally).
5. Kevin S. Huang, Makhluif J. Haddadin, and Mark J. Kurth, "Imidazo- and Pyridolpyrimidium bromides: synthesis and hydrolysis," *Journal of Organic Chemistry* **2002**, *67*, 2382-2385.
6. Kevin S. Huang, Makhluif J. Haddadin, Marilyn M. Olmstead, and Mark J. Kurth, "Synthesis and reactions of some heterocyclic azacyanines," *Journal of Organic Chemistry* **2001**, *66*, 1310-1315.
7. Kevin S. Huang, Edwin H. Lee*, Marilyn M. Olmstead, and Mark J. Kurth, "Sequential 1,3-dipolar cycloadditions in the synthesis of bis-isoxazolo substituted piperidinones," *J. Org. Chem.* **2000** *65*, 499-503.
*Undergraduate student.
8. James S. Nowick, Darren L. Holmes, Glenn Noronha, Eric M. Smith, Tram M. Nguyen, and Sheng-Lin Huang, "Synthesis of peptide isocyanates and isothiocyanates," *Journal of Organic Chemistry* **1996**, *61*, 3929-3934.
9. Thomas C. Glenn, Sheng-Lin Huang, and Sue P. Duckles, "Cocaine promotes an apparent direct vasoconstrictor effect of neuropeptide Y in the rat-tail artery," *European Journal of Pharmacology* **1995**, *276*, 191-194.

RESEARCH PRESENTATIONS

1. Hector Correa¹, Mary Hernandez^{2,3}, Christopher Saucedo^{2,3}, Mark Kurth⁴, and Kevin S. Huang³. "Solid Phase Synthesis of Pyrrolidin-3-One Oximes and 1-Oxa-7-Aza-Spiro Oximes Using a REM Linker Strategy." ¹Azusa High School & American Chemical Society Project SEED participant, ²APU undergraduates, ³Department of Biology & Chemistry, Azusa Pacific University, Azusa, CA, and ⁴Department of Chemistry, University of California, Davis, Davis, CA. The American Chemical Society Western Regional Meeting, October 9-13, 2007 (poster presentation).
2. Kevin S. Huang, T. Martin Schmeing, David E. Kitchen, Thomas A. Steitz and Scott A. Strobel,. "Investigating the ribosome catalyzed peptide bond formation using chiral transition state mimics. 230th American Chemical Society National Meeting, Washington, DC, USA, Aug. 28-Sept. 1, 2005 (poster presentation). Department of Biophysics & Biochemistry, Yale University, New Haven, CT. The 2005 RNA Society Meeting, Banff, Canada, May 27th, 2005 (poster presentation).
3. Kevin S. Huang, Ethan B. Butler, T. Martin Schmeing, David E. Kitchen, Thomas A. Steitz and Scott A. Strobel, "Defining the regio- and stereospecificity of the peptidyl transferase reaction," Department of Biophysics & Biochemistry, Yale University, New Haven, CT. The 2005 RNA Society Meeting, Banff, Canada, May 27th, 2005 (oral presentation).
4. Kevin S. Huang, T. Martin Schmeing, David E. Kitchen, Thomas A. Steitz, Peter B. Moore, and Scott A. Strobel, "Investigating the ribosome catalyzed peptide bond formation using transition state mimics," Department of Biophysics & Biochemistry, Yale University, New Haven, CT. The 2004 RNA Society Meeting, University of Wisconsin, June 3rd, 2004 (poster presentation).
5. Mark J. Kurth, Robert E. Sammelson, Kevin S. Huang, and Makhlu J. Haddadin, "Solution and solid phase synthesis of unsymmetrical azacyanines." Department of Chemistry, University of California, Davis, Davis, CA. The 221st ACS National Meeting, San Diego, CA, April 1st, 2001 (poster presentation).

PROFESSIONAL ORGANIZATION

American Chemical Society, 1997-present.