

Craig N. Streu

DEPARTMENT OF CHEMISTRY • UNIVERSITY OF PENNSYLVANIA
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Education

- 9/04-6/09 Graduate Student in Organic Chemistry
Ph.D. Awarded 2009
University of Pennsylvania-Philadelphia, PA
Cumulative GPA: 3.95/4.0
- 9/00-5/04 Bachelor of Arts in Chemistry, *summa cum laude*
Minor in Cell and Molecular Biology
Albion College; Albion, MI
Cumulative GPA: 3.97/4.0

Research Experience

- CURRENT Postdoctoral Research with Prof. William F. DeGrado, University of Pennsylvania
Biophysical methods for deconvolution of the integrin activation mechanism.
- 9/04-6/09 Dissertation with Prof. Eric Meggers, University of Pennsylvania
Thesis Title: Bioactive organometallic complexes: From structure to function.
- 9/00-5/04 Thesis Research with Prof. Andrew N. French, Albion College
Worked on the synthesis of a variety of chiral hypervalent iodine reagents for use in chiral catalysis.
- 5/03-8/03 Summer Research Internship with Prof. Thomas Wirth, Cardiff University
Worked towards the development of a novel constrained heteroaromatic hypervalent iodine reagent.

Teaching Experience

University of Pennsylvania Teaching Assistant: Organic Chemistry Laboratory 245 (Fall 2004, Spring 2005); Organic Chemistry 241 (Fall 2005, Spring 2007); Organic Chemistry 242 (Summer 2005, Fall 2006); General Chemistry 102 (Spring 2006)

Albion College Laboratory Teaching Assistant: Organic Chemistry 211 (Fall 2004); Organic Chemistry 212 (Spring 2004); Inorganic Chemistry 123 (Spring 2003); Introductory Biology 195 (Spring 2002)

Selected Awards and Honors

NIH Postdoctoral Training Grant Award, Department of Biochemistry and Biophysics, University of Pennsylvania.

Graduate Student Teaching Assistant Commendation, Department of Chemistry, University of Pennsylvania (2005)

David L. Randall Most Outstanding Senior Chemistry Major, Department of Chemistry, Albion College (2004)

Richard Vitek Chemistry Outstanding Chemist Award, Department of Chemistry, Albion College (2003)

Putnam Award for Chemistry Student of the Year, Department of Chemistry, Albion College (2002)

Publications

Streu, C., Meggers, E. "An organophosphine ligand as a pharmacophore in an organometallic inhibitor of tropomyosin-related kinase A," *In progress*.

Xie, P., Streu, C., Qin, J., Bregman, H., Pagano, N., Meggers, E., Marmorstein, R. "Crystal structure of BRAF in complex with an organoruthenium inhibitor reveals a mechanism for inhibition of an active form of BRAF kinase," *Biochemistry*, **2009**, 48, 5187-5198.

Atila-Gokcumen, G. E., Pagano, N., Streu, C., Meggers, E. "Extremely tight binding of a ruthenium complex to glycogen synthase kinase 3," *ChemBioChem*. **2008**, 9, 2933-2936.

Streu, C., Carroll, P. J., Kohli, R. K., Meggers, E. "Synthesis of cyclopentadienyl ruthenium complexes bearing pendant chelating picolines through an electrophilic precursor," *J. Organomet. Chem.* **2008**, 693, 551-556.

Streu, C., Meggers, E. "Ruthenium-induced allylcarbamate cleavage in living cells," *Angew. Chem., Int. Ed.* **2006**, 45, 5645-8.

Selected Research Presentation

Streu, C., Meggers, E. Organometallic chemistry in living cells, 232nd ACS National Meeting, San Francisco, CA, United States, September 2006 (poster).