PETER WIPF, PHD
BIOGRAPHICAL SKETCH

EDUCATION/TRAINING: INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY/ADVISOR
Univ. of Zürich, Dept. of Chem., Zürich, Switzerland	Dipl. Chem.	1980-84	Chemistry & Biochemistry
Univ. of Zürich, Dept. of Chem., Zürich, Switzerland	Ph.D.	1984-87	2*H*-Azirines / Prof. H. Heimgartner
Univ. of Virginia, Dept. of Chem., Charlottesville, VA	Postdoc	1988-90	FK-506 / Prof. R. E. Ireland

Distinguished University Professor of Chemistry (7/04-present), **Professor** (2/97-6/04), **Associate Professor** (9/95-1/97), **Assistant Professor** (9/90-8/95) • **Professor** of Pharmaceutical Sciences, School of Pharmacy (11/01-present) • **Director**, Centers for Combinatorial Chemistry and Chemical Methodologies & Library Development (12/97-present), all at University of Pittsburgh • **Adjunct Professor** (2002-present), Department of Chemistry, Duke University.

RESEARCH SUMMARY

Our research interests include the total synthesis of natural products, organometallic, heterocyclic, medicinal and computational chemistry. We study chemical reactivity, develop synthetic methodology to augment the chemical toolbox, and collaborate to design new therapeutic agents. A major emphasis of our program involves the preparation of polyfunctionalized nitrogen-containing building blocks for target-directed synthesis.

SELECTED AWARDS AND HONORS

• ACS Pittsburgh Award (2012) • Fellow of the American Chemical Society (2010) • Ernest Guenther Award in the Chemistry of Natural Products (2009) • Chancellor's Distinguished Research Award (2008) • Fellow of the Royal Society of Chemistry (2004) • ISHC Katritzky Award in Heterocyclic Chemistry (2003) • Fellow of the AAAS (2002) • Chair, Gordon Research Conference on Stereochemistry (2002) • Novartis Research Award (2000, 2001) • Japan Society for the Promotion of Science Fellow (2000) • Akron Section ACS Award (1998) • Arthur C. Cope Scholar Award (1998) • Merck Young Investigator Award (1995) • Zeneca Award for Excellence in Chemistry (1995) • Camille Dreyfus Teacher-Scholar Award (1995) • NSF Presidential Faculty Fellow (1994) • ETH Ruzicka Award (1994) • Alfred P. Sloan Research Fellow (1994) • Eli Lilly Grantee (1993).

SELECTED EDITORIAL BOARDS

• Associate Editor, *ACS Med. Chem. Lett.*
• Editorial Advisory Boards: *Diversity Oriented Synthesis; International Journal of High Throughput Screening; Organic & Biomolecular Chemistry; Organic Reactions; Chemical Biology & Drug Design; Chirality; Molecules.*

TEN HIGHLY-CITED ORIGINAL RESEARCH PUBLICATIONS (excl. reviews; from a total of ~450 papers & patents)

Wipf, P.; Cunningham, A., "A solid phase protocol of the Biginelli dihydropyrimidine synthesis suitable for combinatorial chemistry." *Tetrahedron Lett.* **1995**, *36*, 7819.

Phillips, A. J.; Uto, Y.; Wipf, P.; Reno, M. J.; Williams, D. R., "Synthesis of functionalized oxazolines and oxazoles with DAST and Deoxo-Fluor." *Org. Lett.* **2000**, *2*, 1165.

Wipf, P.; Lim, S., "Total synthesis of the enantiomer of the antiviral marine natural product hennoxazole A." *J. Am. Chem. Soc.* **1995**, *117*, 558.

Wipf, P.; Kim, Y.; Goldstein, D. M., "Asymmetric total synthesis of the *Stemona* alkaloid (-)-stenine." *J. Am. Chem. Soc.* **1995**, *117*, 11106.

Studer, A.; Jeger, P.; Wipf, P.; Curran, D. P., "Fluorous synthesis: Fluorous protocols for the Biginelli and Ugi multi-component condensations." *J. Org. Chem.* **1997**, *62*, 2917.

Wipf, P.; Ribe, S., "Zirconocene-zinc transmetalation and in situ catalytic asymmetric addition to aldehydes." *J. Org. Chem.* **1998**, *63*, 6454.

Kondru, R. K.; Wipf, P.; Beratan, D. N., "Atomic contributions to the optical rotation angle as a quantitative probe of molecular chirality." *Science* **1998**, *282*, 2247.

Lazo, J. S.; Aslan, D. C.; Southwick, E. C.; Cooley, K. A.; Ducruet, A. P.; Joo, B.; Vogt, A.; Wipf, P., "Discovery and biological evaluation of a new family of potent inhibitors of the dual specificity protein phosphatase Cdc25." *J. Med. Chem.* **2001**, *44*, 4042.

Wipf, P.; Henninger, T. C.; Geib, S. J., "Methyl- and trifluoromethyl alkene peptide isosteres: Synthesis and evaluation of their potential as β-turn promoters and peptide mimetics." *J. Org. Chem.* **1998**, *63*, 6088.

Ihle, N. T.; Williams, R.; Chow, S.; Chew, W.; Berggren, M. I.; Paine-Murrieta, G.; Minion, D. J.; Halter, R. J.; Wipf, P.; Abraham, R.; Kirkpatrick, L.; Powis, G., "Molecular pharmacology and antitumor activity of PX-866, a novel inhibitor of phosphoinositide-3-kinase signaling." *Mol. Cancer Therap.* **2004**, *3*, 763.