
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 <i>H</i> -Azirines / Prof. H. Heimgartner
Univ. of Virginia, Dept. of Chem., Charlottesville, VA	Postdoc	1988-90	FK-506 / Prof. R. E. Ireland

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

RESEARCH SUMMARY

Our research interests include the total synthesis of natural products, organometallic and heterocyclic chemistry, combinatorial, medicinal and computational chemistry. We study chemical reactivity, augment the chemical toolbox, and collaborate to develop new therapeutic strategies. A major emphasis involves the efficient preparation of polyfunctionalized nitrogen-containing building blocks for biological screening and natural product target-directed syntheses. The discovery of fundamentally new reaction pathways is stimulated by exploratory studies of transition metal complexes, in particular zirconocenes.

SELECTED AWARDS AND HONORS

• Ernest Guenther Award in the Chemistry of Natural Products (2009) • Chancellor's Distinguished Research Award (2008) • Fellow of the Royal Society of Chemistry (FRSC, 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) • American Cancer Society Junior Faculty Research Award (1995) • NSF Presidential Faculty Fellow (1994) • ETH Ruzicka Award (1994) • Alfred P. Sloan Research Fellow (1994) • Eli Lilly Grantee (1993).

SELECTED EDITORIAL BOARDS

• Editor, *Organic Reactions* & *Organic Syntheses* • Associate Editor, *ACS Medicinal Chemistry Letters*

TEN HIGHLY-CITED (>100) ORIGINAL RESEARCH PUBLICATIONS (excluding reviews; from a total of ~350)

Wipf, P.; Miller, C. P., "A new synthesis of highly functionalized oxazoles." *J. Org. Chem.* **1993**, *58*, 3604.
Wipf, P.; Cunningham, A., "A solid phase protocol of the Biginelli dihydropyrimidine Synthesis suitable for combinatorial chemistry." *Tetrahedron Lett.* **1995**, *36*, 7819.
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.
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.
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.
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.
