

Curriculum Vitae
MACIEJ A. WALCZAK

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EDUCATION

Ph.D. (organic chemistry) August 2003 – August 2009
University of Pittsburgh, Pittsburgh, PA

B.S. (chemistry, *maxima cum laude*) October 1998 – June 2003
Adam Mickiewicz University, Poznan, Poland

PROFESSIONAL EXPERIENCE

UNIVERSITY OF COLORADO, Boulder, CO August 2013 – present
Assistant Professor of Chemistry and Biochemistry

MEMORIAL SLOAN-KETTERING CANCER CENTER, New York, NY October 2009 – May 2013
Terrie Brodeur Breast Cancer Foundation Postdoctoral Fellow
Advisor: Prof. Samuel J. Danishefsky

1. Synthesis of anti-cancer vaccines
2. Synthesis and evaluation of migrastatin analogs
3. Evaluation of Diels-Alder reactions with electron-deficient dienes

Laboratory Manager (chemical ordering, equipment maintenance, group scheduling, patent review)

UNIVERSITY OF PITTSBURGH, Pittsburgh, PA August 2003 – August 2009
Advisor: Prof. Peter Wipf
Dissertation: Synthesis and Reactions of Bicyclo[1.1.0]butanes
Synthesis of bicyclobutanes, development of new synthetic methodologies using strained molecules, applications towards total synthesis of alkaloids

ADAM MICKIEWICZ UNIVERSITY, Poznań, Poland October 2000 – May 2003
Advisor: Prof. Henryk Koroniak
Extensive *ab initio* calculations on organofluorine compounds and studies on molecular structure of aromatic molecules

UNIVERSITY OF BOCHUM, Bochum, Germany April 2000 – July 2000
Advisor: Prof. Günther von Kiedrowski
Synthesis of morpholine nucleosides for nanotechnological applications using solid-support techniques

INSTITUTE OF BIOORGANIC CHEMISTRY PAS, Poznań, Poland October 1996 – January 1998
Advisor: Prof. Adam Kraszewski
Development of new coupling methods of aminoalcohols using *H*-phosphonates and applications in the synthesis of oligonucleotides for antisense therapy

AWARDS AND FELLOWSHIPS

- Terrie Brodeur Foundation Postdoctoral Fellowship, 2010-2013

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- Mellon Pre-doctoral Fellowship, University of Pittsburgh, Pittsburgh, PA, 2007-2008
 - Teaching Assistant Fellowship, University of Pittsburgh, Pittsburgh, PA, 2003-2004
 - Ministry of Education Fellowship, Warsaw, Poland, 2001-2002
 - Adam Mickiewicz University Scholarship, Poznań, Poland, 2000
 - 3rd Prize in 11th European Union Contest for Young Scientists, Thessaloniki, Greece, 1999
 - 1st Prize in Young Scientists Contest, Warsaw, Poland, 1998

INVITED TALKS AND PRESENTATIONS

- *NIH Mentoring Workshop*, Dallas, TX, August 4-6, 2014
- *244th National ACS Meeting*, Philadelphia, PA, August 19-23, 2012
Title: Development of Anticancer Vaccines Incorporating Prostate-Specific Membrane Antigen
- *Gordon Research Conference on Stereochemistry*, Salve Regina University, RI, July 29-August 3, 2012
Title: Synthesis of Fully Sialylated *N*-linked Glycans
- *241st National ACS Meeting*, Anaheim, CA, March 27-31, 2011
Title: Development of Anti-cancer Vaccines Incorporating Prostate-Specific Membrane Antigen (Invited Presentation)
- *4th Annual CMLD Meeting*, Lawrence, KS, October 27-28, 2008
Title: Metal-Catalyzed Reactions of Bicyclobutanes
- *234th ACS National Meeting*, Boston, MA, August 19-23, 2007
Title: Intramolecular Pericyclic Reactions of Bicyclobutanes
- *3rd Annual CMLD Meeting*, Boston, MA, July 23-24, 2007
Title: Synthesis of Azepines and Pyrrolidines *via* Rhodium-Catalyzed Isomerizations of Bicyclobutanes
- *40th National Organic Symposium*, Duke University, June 3-7, 2007
Title: Intramolecular Pericyclic Reactions of Bicyclobutanes
- *2nd Annual CMLD Meeting*, Pittsburgh, PA, August 15-16, 2006
Title: Pericyclic Reactions of Bicyclobutanes
- *ICOS-13*, Warsaw, Poland, July 1-5, 2000
- *Winter School on Theoretical Chemistry*, Helsinki, Finland, December 11-15, 2000
- *CORIUM-2000, International Conference of Reactive Intermediates and Unusual Molecules*, Vienna, Austria, August 26-31, 2000

PUBLICATIONS

Postdoctoral, Graduate, and Undergraduate

11. M. A. Walczak, S. J. Danishefsky, Synthesis of Antimetastatic Agents Using Ring-Closing Metathesis, *Handbook of Metathesis, 2nd Edition* (Invited chapter), R. H. Grubbs (Ed.), Wiley, **2014**.
10. M. A. Walczak, J. Hayashida, S. J. Danishefsky, Building Biologics by Chemical Synthesis: Practical Preparation of Di- and Triantennary *N*-linked Glycoconjugates, *J. Am. Chem. Soc.* **2013**, *135*, 4700-4703.
9. P. Wipf, Z. Fang, L. Ferrié, M. Ueda, M. A. A. Walczak, Y. Yan, M. Yang, Cycloadditions in Heterocycle and Alkaloid Synthesis, *Pure Appl. Chem.*, **2013**, *85*, 1079-1087.
8. M. A. Walczak, S. J. Danishefsky, Solving the Convergence Problem in the Synthesis of Triantennary *N*-Glycan Relevant to Prostate-Specific Membrane Antigen (PSMA), *J. Am. Chem. Soc.* **2012**, *134*, 16430-16433. Commentary in *Science* **2012**, *338*, 321.
7. M. A. A. Walczak, P. Wipf, B. K. Shin, S. Saxena, ESR analysis of the mechanism of pericyclic reactions of bicyclobutanes *Org. Biomol. Chem.* **2009**, *7*, 2363-2366.
6. M. Ueda, M. A. A. Walczak, P. Wipf, Formal Alder-ene reaction of a bicyclo[1.1.0]butane in the synthesis of the tricyclic quaternary ammonium core of daphniglaucin *Tetrahedron Lett.* **2008**, *49*, 5986-5989.
5. M. A. A. Walczak, P. Wipf, Rhodium(I)-catalyzed cycloisomerizations of bicyclobutanes *J. Am. Chem. Soc.* **2008**, *130*, 6924-6925.

4. P. Wipf, M. A. A. Walczak, Pericyclic cascade reactions of (bicyclo[1.1.0]butylmethyl)amines *Angew. Chem. Int. Ed.* **2006**, *45*, 4172-4175. (Highlighted as HotPaper)
3. P. Wipf, S. Werner, G. H. C. Woo, C. R. J. Stephenson, M. A. A. Walczak, C. M. Coleman, L. A. Twining, Application of divergent multi-component reactions in the synthesis of a library of peptidomimetics based on γ -amino- α,β -cyclopropyl acids *Tetrahedron* **2005**, *61*, 11488-11500.
2. P. Wipf, C. R. J. Stephenson, M. A. A. Walczak, Diversity-oriented synthesis of azaspirocycles, *Org. Lett.* **2004**, *6*, 3009-3012. (Highlighted in C&EN)
1. J. Grabowski, M. A. Walczak, M. T. Krygowski, The substituent effect in ethylenes and acetylenes - AIM analysis, *Chem. Phys. Lett.* **2004**, *400*, 362-367.