

CURRICULUM VITAE

Paul J. Reider, Ph.D.

United States of America Citizenship

BUSINESS

Princeton University
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EMPLOYMENT HISTORY

PRINCETON UNIVERSITY **From – To**
Lecturer at the Rank of Professor 7/15 - present
Department of Chemistry

Pharmaceutical Specialist &
Lecturer 8/08-7/15
Department of Chemistry

AMGEN, INC. **From – To**
Vice President, 4/02 – 11/07
Chemistry Research & Discovery

MERCK/MRL **From – To**
Vice President, Process Research 2/95 - 4/02
Executive Director 2/91 - 1/95
Director 5/89 - 2/91
Assistant Director 1/87 - 5/89
Research Fellow 5/84 - 12/86
Senior Research Chemist 9/80 - 5/84

EDUCATION

<u>School</u>	<u>Date</u>	<u>Major/Minor/Courses</u>	<u>Degree</u>
Washington Square College (NYU)	1972	Psychology/Chemistry	A. B.
University of Vermont	1978	Organic Chemistry	Ph.D.
Colorado State University	1978-1980	NIH Postdoctoral Fellow	

ACADEMIC AND PROFESSIONAL HONORS

17. 2011 National Academy of Sciences Award for *Chemistry in Service to Society* (May 2011)

16. B. R. Baker Memorial Lecturer of 2006 – June 2006
15. Earle B. Barnes Award for Leadership in Chemical Research (ACS National Award) -2003
14. Novartis Chemistry Lectureship – 2003
13. Senior Editor – “Science of Synthesis” -- 2003 -- present
12. Prix Galien 2000 Innovative Product Award – June 2000 (Singulair™)
11. Prix Galien 2000 Research Team Award- June 2000 (Singulair™)
10. Merck Board of Directors Scientific Award – 1998 (Crixivan™)
9. Senior Editor - "Current Opinion in Drug Discovery & Development"
8. National Research Council - Board of Chemical Sciences & Technology (1998-2001)
7. Herman S. Bloch Memorial - University of Chicago – 1996
6. Chair - 1996 Gordon Research Conference - Heterocyclic Compounds
5. Vice Chair - 1995 Gordon Research Conference - Heterocyclic Compounds
4. NSF Workshop on Synthesis July 1988
3. MRL Ambassador Program (to Colorado State University) (1982-1990)
2. Merck Speakers List (1982 - 2002)
1. National Research Service Award (NIH Postdoctoral Fellow) 1979-1980

EDITORIAL AND ADVISORY BOARDS

12. Medicines for Malaria Venture -- Expert Scientific Advisory Committee -2010 -- present
11. TB Alliance -- Scientific Advisory Committee - 2010 - present
10. Emory Institute For Drug Discovery – Advisory Board - 2009 – 2013
9. Tetrphase Pharmaceuticals -- Scientific Advisor 2009 -- present
8. Satori Pharmaceuticals -- Advisory Board -- 2009 -- 2013
7. Chemical & Engineering News Advisory Board – 2006 to 2009
6. ACS Executive Directors’ 2010 Committee – 2004 to present
5. Steering Committee BCST – Challenges for the Chemical Sciences in the 21st Century – 2003
4. Steering Committee & BCST – Challenges for the Chemical Sciences in the 21st Century – Workshop on Health and Medicine (National Research Council) – 2002
3. Editorial Advisory Board – “Journal Organic Chemistry”
2. Editorial Advisory Board - "Organic Letters"
1. Editorial Advisory Board – Journal of the American Chemical Society

ACADEMIC VISITING COMMITTEES

3. Chemical Engineering Advisory Board, University of California Santa Barbara
2. Member – California Institute of Technology Division of Chemistry & Chemical Engineering
1. Harvard Overseers’ Committee to Visit the Department of Chemistry & Chemical Biology

PUBLICATIONS

182. **Diastereoselective syntheses of substituted cis-hydrindanones featuring sequential inter-and intramolecular Michael reactions;** J Liu, MA Marsini, TA Bedell, PJ Reider, EJ Sorensen - Tetrahedron, 72, 3713, 2016
181. **Targeting NAD⁺ Metabolism in the Human Malaria Parasite *Plasmodium falciparum***

Jessica K. O'Hara, Lewis J. Kerwin, Simon A. Cobbold, Jonathan Tai, Thomas A. Bedell, Paul J. Reider, Manuel Llinás; PLoS ONE; 2014 April; 9(4):e94061

180. **Highly Loaded Nanoparticulate formulation of Progesterone for Emergency Traumatic brain Injury Treatment**; Carlos E. Figueroa, Paul J. Reider, Panee Burckel, A. Alan Pinkerton & Robert K. Prud'homme; *Therapeutic Delivery*; 2012, **3** (11), p.1269
179. **A Concise and Convergent Synthesis of PA-824** Maurice A. Marsini, Paul J. Reider*, and Erik J. Sorensen*; *J. Org. Chem.*, 2010, **75** (21), pp 7479–7482
178. **Stereoselective Synthesis of anti-N-Protected 3-Amino-1,2-epoxides by Nucleophilic Addition to N-tert-Butanesulfinyl Imine of a Glyceraldehyde Syntho**† Scott S. Harried, Michael D. Croghan, Matthew R. Kaller, Patricia Lopez, Wenge Zhong, Randall Hungate and Paul J. Reider *J. Org. Chem.*, 2009, **74** (16), pp 5975–5982
177. “Practical synthesis of the calcimimetic agent, cinacalcet”, *Tetrahedron Letters*, (2008), 49(1), 13, Oliver R. Thiel, Charles Bernard, Wanda Tormos, Alan Brewin, Shuji Hirotani^a, Kazuo Murakami^a, Kenji Saito^a, Robert D. Larsen^a, Michael J. Martinelli^a and Paul J. Reider^a
176. “Design, Synthesis, and Biological Evaluation of Potent c-Met Inhibitors”, *J. Med. Chem.*, (2008), **51** (18), 5766–5779, Noel D. D'Angelo*†, Steven F. Bellon‡, Shon K. Booker‡, Yuan Cheng‡, Angela Coxon§, Celia Dominguez‡, Ingrid Fellows‡, Douglas Hoffman‡, Randall Hungate‡, Paula Kaplan-Lefko§, Matthew R. Lee‡, Chun Li‡, Longbin Liu‡, Elizabeth Rainbeau‡, Paul J. Reider‡, Karen Rex§, Aaron Siegmund‡, Yaxiong Sun‡, Andrew S. Tasker‡, Ning Xi‡, Shimin Xu‡, Yajing Yang§, Yihong Zhang§, Teresa L. Burgess§, Isabelle Dussault§ and Tae-Seong Kim
175. “An Integrated High-Throughput Screening Approach for Purification of Solid Organic Compounds by Trituration and Crystallization in Solvents”, *Organic Process Research & Development* (2008), **12**, 58–65, Helming Tan,* Maggie Reed, Kyung H. Gahm, Tony King, Mina Dilmeghani Seran, Tracy Bostick, Van Luu, David Semin, Janet Cheetham, Rob Larsen, Mike Martinelli, and Paul Reider
174. “Identification of a Nonpeptidic and Conformationally Restricted Bradykinin B1 Receptor Antagonist with Anti-Inflammatory Activity”, *J. Med. Chem.*, (2007), **50**, 607-610, D. D'Amico, T. Aya, J. Human, C. Fotsch, J.J. Chen, K. Biswas, B. Riahi, M.H. Norman, C.A. Willoughby, R. Hungate, P.J. Reider, G. Biddlecome, D Lester-Zeiner, C. Van Staden, E. Johnson, A. Kamassah, L. Arik, J. Wang, V.N. Viswanadhan, R.D. Groneberg, J. Zhan, H. Sizuke, A. Toro, D.A. Mareska, D.E. Clarke, D.M. Harvey, L.E. Burgess, E.R. Laird, B. Askew, G. Ng
173. “New Air-Stable Catalysts for General and Efficient Suzuki-Miyaura Cross-Coupling Reactions of Heteroaryl Chlorides”, *Organic Letters*, (2006), **8,9**, 1787-1789, A.S. Guram, A.O. King, J.G. Allen, X. Wang, L.B. Schenkel, J. Chan, E.E. Bunel, M.M. Faul, R.D. Larsen, M.J. Martinelli, P.J. Reider

172.	A Practical Synthesis of 2-((Pyrrolo[2,3-b]pyridine-4yl)methylamino)-5-fluoronicotinic Acid, <u>J. Org. Chem.</u> , 2006, 71, 4021-4023, X Wang, B Zhi, J Baum, Y. Chen, R. Crockett, L. Huang, S. Eisenberg, J. Ng, R. Larsen, M. Martinelli, P.J. Reider
171.	“Effect of Microwave Heating on Ullmann-Type Heterocycle-Aryl Ether Synthesis Using Chloro-Heterocycles”, <u>Tetrahedron Letters</u> , (2006), 47,29, 5045-5048, N.D. D’Angelo, J.J. Peterson, S.K. Booker, I. Fellows, C. Dominguez, R. Hungate, P.J. Reider, T-S. Kim
170.	“A Highly Enantioselective Catalyst for Asymmetric Hydroformylation of [2.2.1]-Bicyclic Olefins”, <u>Tetrahedron Letters</u> , (2005), 46,45, 7831-7834, J. Huang, E. Bunel, A. Allgeier, J. Tedrow, T. Storz, J. Preston, T. Correll, D. Manley, T. Soukup, R. Jensen, P.J. Reider
169.	“A Soluble Base for the Copper-Catalyzed Imidazole N-Arylations with Aryl Halides”, <u>J. Org. Chem.</u> , 2005, 70, 10135-10138, L. Liu, M. Frohn, N. Xi, C. Dominguez, R. Hungate, P.J. Reider
168.	“Synthesis of a Substance P Antagonist: An Efficient Synthesis of 5-Substituted-4- <i>N,N</i> -dimethylamino-1,2,3-triazoles”, <u>Organic Process Research & Development</u> , 2005, 9,4, 490-498, M. Journet, D. Cai, D.L. Hughes, J.J. Kowal, R.D. Larsen, P.J. Reider
167.	“Regio-Controlled Synthesis of <i>N</i> -substituted Imidazoles”, <u>Tetrahedron Letters</u> , (2005), 46,43, 7315-7319, N. Xi, S. Xu, Y. Cheng, A.S. Tasker, R.W. Hungate, P.J. Reider
166.	“An Efficient Synthesis of an $\alpha_v\beta_3$ Antagonist”, <u>J. Org.Chem.</u> , 2004, 69, 1959-1966, N. Yasuda, Y. Hsiao, M.S. Jensen, N.R. Rivera, C. Yang, K.M. Wells, J. Yau, M. Palucki, L. Tan, P.G. Dormer, R.P. Volant, D.L. Hughes, P.J. Reider
165.	“Efficient Synthesis of NK ₁ Receptor Antagonist Aprepitant Using a Crystallization-Induced Diastereoselective Transformation”, <u>J. Am. Chem. Soc.</u> , 2003, 125, 2129-3135, K.M.J. Brands, J.F. Payack, J.D. Rosen, T.D. Nelson, A. Candelario, M.A. Huffman, M.M. Zhao, J. Li, B. Craig, Z.J. Song, D.M. Tschaeen, K. Hansen, P.N. Devine, P.J. Pye, K. Rossen, P.G. Dormer, R.A. Reamer, C.J. Welch, D.J. Mathre, N.N. Tsou, J.M. McNamara, P.J. Reider
164.	“Highly Regioselective Friedländer Annulations with Unmodified Ketones Employing Novel Amine Catalysts: Syntheses of 2-Substituted Quinolines, 1,8-Naphthyridines, and Related Heterocycles”, <u>J. Org. Chem.</u> , 2003, 68, 467-477, P.G. Dormer, K.K. Eng, R.N. Farr, G.R. Humphrey, J.C. McWilliams, P.J. Reider, J.W. Sager, R.P. Volante
163.	“A Practical Synthesis for the Core Structure of a Family of Selective Prostaglandin D ₂ Receptor Antagonists”, <u>J. Org. Chem.</u> , 2003, 68, 2338-2342, K.R. Campos, M. Journet, D. Cai, J.J. Kowal, S. Lee, R.D. Larsen, P.J. Reider
162.	“Novel synthesis of sulfones from α , α -dibromomethyl aromatics”, <u>Tetrahedron Letters</u> (2003), 44, 1283-1286, Feng Xu, Kimberly Savary, J. Michael Williams, E.J.J. Grabowski, P.J. Reider.
161.	“Practical Routes to the Triarylsulfonyl Chloride Intermediate of a β_3 Adrenergic Receptor Agonist”, <u>Tetrahedron Letters</u> (2003), 59,8, 1317-1325, N. Ikemoto, J Liu, K.M.J. Brands, J.M. McNamara

	and P.J. Reider
160.	“Preparation of a Clinically Investigated Ras Farnesyl Transferase Inhibitor”, <u>J of Heterocyclic Chemistry</u> , (2003), 40, 229-241, P.E. Maligres, M.S. Waters, S.A. Weissman, J.C. McWilliams, S Lewis, J Cowen, R.A. Reamer, R.P. Volante, P.J. Reider, D Askin
159.	“An Efficient Synthesis of a Doxorubicin-Peptide Conjugate”, <u>Synlett</u> (2003), 05, Y-J Shi, M Cameron, U.H. Dolling, D.R. Lieberman, J.E. Lynch, R.A.Reamer, M.A. Robbins, R.P. Volante, P.J. Reider
158.	“A Stereoselective Aldol Reaction Via Diisopinocampheyl Boron-Enolate in Preparation of Chromane Carboxylate with Quaternary Carbon”, <u>Tetrahedron Letters</u> , (2003), 44,28, 5285-5288, F. Lang, D. Zewge, Z.J. Song, B. Mirlinda, P. Dormer, D. Tschaen, R.P. Volante, P.J. Reider
157.	“Asymmetric Synthesis of Cyclic Hydroxy Ketones Derived from Enol Ethers via Sharpless Asymmetric Dihydroxylation. A Study in the Correlation of the Enol Ether Chain Length and Enantioselectivity.”, <u>J. Org. Chem.</u> (2003), 68, 8088, Benjamin F. Marcune, Sandor Karady, Paul J. Reider, Ross A. Miller, Mirlinda Biba, Lisa DiMichele, and Robert A. Reamer.
156.	“Stereoselective Synthesis from a Process Research Perspective”, <u>Drug Discovery Today</u> , (2002) 7,5, 303-314, M.C. Hillier, P.J. Reider
155.	“Efficient One-Pot Synthesis of the 2-Aminocarbonylpyrrolidin-4-ylthio-Containing Side Chain of the New Broad-Spectrum Carbapenem Antibiotic Ertapenem”, 2002, <u>J. Org. Chem.</u> , 67, 4771-4776, K.M.J. Brands, R.B. Jobson, K.M. Conrad, J.M. Williams, B. Pipik, M. Cameron, A.J. Davies, P.G. Houghton, M.S. Ashwood, I.F. Cottrell, R.A. Reamer, D.J. Kennedy, U-H. Dolling, P.J. Reider
154.	“Solvent-Dependent Dynamic Kinetic Asymmetric Transformation/Kinetic Resolution in Molybdenum-catalyzed Asymmetric Allylic Alkylations”, 2002, <u>J. Org. Chem.</u> , 67, 2762-2768, D.L. Hughes, M. Palucki, N. Yasuda, R.A. Reamer, P.J. Reider
153.	“Development of a New and Practical Route to Chiral 3,4-Disubstituted Cyclopentanones: Asymmetric Alkylation and Intramolecular Cyclopropanation as Key C-C Bond-Forming Steps”, 2002, <u>J. Org. Chem.</u> , 67, 5508-5516, M. Palucki, J.M. Um, N. Yasuda, D.A. Conlon, F-R Tsay, F.W. Hartner, Y. Hsiao, B Marcune, S. Karady, D.L. Hughes, P.G. Dormer, P.J. Reider
152.	“Efficient Synthesis of 6-mono-bromo-1,1'-bi-2naphthol”, <u>Tetrahedron Letters</u> (2002), 43,22, 4055-4057, D Cai, R.D. Larsen, P.J. Reider.
151.	“Practical Enantioselective Synthesis of a COX-2 Specific Inhibitor”, <u>Tetrahedron Letters</u> , (2002), 58,37, 7403-7410, L Tan, C-Y Chen, W Chen, L Frey, A.O. King, R.D. Tillyer, F Xu, D Zhao, E.J.J. Grabowski, P.J. Reider, <i>et al.</i>
150.	“Aza-Diels-Alder/intramolecular Heck Cyclization Approach to the Tetrahydro- β -Carboline Skeleton of the Ajmaline/Sarpagine Alkaloids”, <u>Tetrahedron Letters</u> (2002), 43,21, 3871-3874, J.T. Kuethe, A. Wong, I.W. Davies, P.J. Reider

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