

David J. Slade – Organic Chemistry

Lab Instructor, Department of Chemistry
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Education

- Ph.D. Organic Chemistry, University of North Carolina **2000 – 2005**
• Advisor: Michael T. Crimmins
- B.S. Chemistry, Harvey Mudd College **1996 – 2000**

Professional Experience

- Organic Laboratory Instructor, Hobart and William Smith Colleges **2011 – present**
Visiting Assistant Professor, Claremont Colleges **2009 – 2011**
Faculty Advisor, Keck Graduate Institute **2010 – 2011**
Research Scientist II, Inspire Pharmaceuticals **2005 – 2009**

Publications

- (5) Slade, D. J. “Do It Right! Requiring Multiple Submissions of Math and NMR Analysis Assignments in the Laboratory” *J. Chem. Educ.* **2017**, 94(10), 1464-1470.
- (4) Slade, D. J., Miller, J. S. “A Project Provides an Opportunity: Multiple Drafts of an Introduction Require Students To Engage Deeply with the Literature” *J. Chem. Educ.* **2017**, 94(10), 1458-1463.
- (3) Schneider, S. H., Lockwood, S. P., Hargreaves, D. I., Slade, D. J., LoConte, M. A., Logan, B. E., McLaughlin, E. E., Conroy, M. J., Slade, K. M. “Slowed Diffusion and Excluded Volume Both Contribute to the Effects of Macromolecular Crowding on Alcohol Dehydrogenase Steady-State Kinetics” *Biochemistry*, **2015**, 54(38), 5898-5906.
- (2) Slade, D. J., Pelz, N. F., Bodnar, W., Lampe, J. W., Watson, P. S. “Indazoles: Regioselective Protection and Subsequent Amine Coupling Reactions” *J. Org. Chem.* **2009**, 74(16), 6331-6334.
- (1) Crimmins, M. T. and Slade, D. J., “A Formal Synthesis of 6-Deoxyerythronolide B” *Org. Lett.* **2006**, 8(10), 2191-2194.

Patents

- (4) Lampe, J. W., Watson, P. S., Slade, D. J. *Bridged Bicyclic Rho Kinase Inhibitor Compounds, Composition and Use*. Provisional Patent Application filed December 2010.
- (3) Lampe, J. W., Plourde, R., She, J., Crimmins, M. T., Vittitow, J. L., Slade, D. J., Watson, P. S. *Cytoskeletal active compounds, compositions and use*. US 7,666,861 B2, January 2008.
- (2) Lampe, J. W., Watson, P. S., Slade, D. J., Peterson, W. M., Crean, C. S., Vittitow, J. L., deCamp, J. B., Pelz, N. F. *Cytoskeletal Active Rho-kinase Inhibitor Compounds, Composition and Use*. US 2008/0214614 A1, September 2008.
- (1) She J., deCamp, J. B., Watson, P. S., Slade, D. J. *Process for the Preparation of Rho Kinase Inhibitor Compounds*. US 2010/0022775 A1, January 2010.

Presentations

- 9) Slade, D.J. *Improving the "Do It Right!" (DIR) system: Insights from the last two years*. Biennial Conference on Chemical Education, South Bend, IN. July 31st, 2018.
- 8) Slade, D.J. *Encouraging students to argue more effectively in their writing in the introductory organic laboratory*. Biennial Conference on Chemical Education, South Bend, IN. July 29th, 2018.
- (7) Slade, D.J. *Rho Kinase Inhibitors: A Potential New Treatment for Glaucoma* Invited Lecture, National Meeting of the American Chemical Society, Boston, MA. August 25th, 2010.
- (6) Slade, D.J. *Following a ROCKy Trail: Discovery and Development of a Rho-Kinase Inhibitor for the Treatment of Glaucoma*. Invited Lecture California State University, Los Angeles CA. May 20th, 2010.
- (5) Slade, D.J. *Following a ROCKy Trail: Discovery and Development of a Rho-Kinase Inhibitor for the Treatment of Glaucoma*. Joint Science Department, Claremont CA. October 29, 2009.
- (4) Slade, D. J. and Crimmins M.T. *Progress Towards the Synthesis of 6-Deoxyerythronolide B Via an Iterative Aldol Approach: Exploiting the Thiazolidinethione Chiral Auxiliary*. National Meeting of the American Chemical Society, San Diego, CA. March 15, 2005.
- (3) Slade, D. J. and Crimmins, M. T. *Progress Towards the Synthesis of 6-Deoxyerythronolide B: Exploiting the Asymmetric Thiazolidinethione Aldol*

- Reaction.* Southeastern Regional Meeting of the American Chemical Society. Durham, NC. November, 2004.
- (2) Fulcher, E., Herbold, M., Brown, A., Slade, D., Pelz, N., Lampe, J., Navratil, T. *Novel rho kinase inhibitors are potent and efficacious anti-inflammatory agents: an emerging role for rho kinase 1.* American Thoracic Society International Conference. San Diego, CA. May, 2009
- (1) Brown, A., Fulcher, E., Aycock, M., Slade, D., Pelz, N., Sorensen, S., Navratil, T. *Anti-proliferative properties of novel multi-kinase inhibitors.* American Thoracic Society International Conference. San Diego, CA. May 2009.

Professional Activities/Service

- Development/maintenance of the NMR database, MNova Software
- Synthesis of various complex intermediates for HDACi lab project
- Implementation of the Writing workshops Chem 240/241
- Revisions of the Chemical Hygiene Plan
- Chemistry magic shows for the Chem 190 students – end of year celebration