

CURRICULUM VITAE

Don M. Coltart

Department of Chemistry
University of Houston
112 Fleming Building
Houston, TX 77204-5003

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Email: dcoltart@gmail.com or dcoltart@central.uh.edu
Web: <http://chem.uh.edu/people/faculty/coltart>

Education

- 2000 Ph.D.; Chemistry, University of Alberta, Edmonton, Alberta, Canada
Research Advisor: Professor D. L. J. Clive
- 1995 M.Sc.; Chemistry, University of Manitoba, Winnipeg, Manitoba, Canada
Research Advisor: Professor J. L. Charlton
- 1993 B.Sc. Honors; Biochemistry, University of Manitoba, Winnipeg, Manitoba, Canada

Professional Experience

- 2017– Associate Professor of Chemistry, University of Houston, Houston, TX
- 2012–2017 Assistant Professor of Chemistry, University of Houston, Houston, TX
- 2004–2012 Assistant Professor of Chemistry, Duke University, Durham, NC
- 2000–2004 Postdoctoral Fellow (Cancer Research Institute, Natural Science and Engineering Research Council of Canada, and Alberta Heritage Foundation for Medical Research), Memorial Sloan-Kettering Cancer Center, New York, NY
Research Advisor: Professor S. J. Danishefsky

Honors and Awards

- 2018 University of Houston Provost's Travel Award
- 2017 University of Houston Teaching Excellence Award
- 2017 University of Houston Research Excellence Award
- 2010 Thieme Chemistry Journal Award
- 2009 Young Academic Investigators Symposium – American Chemical Society
- 2003 Natural Science and Engineering Research Council of Canada Travel Award
- 2002 Cancer Research Institute Cancer Immunology Postdoctoral Fellowship
- 2000 Alberta Heritage Foundation for Medical Research Postdoctoral Fellowship
- 2000 Natural Science and Engineering Research Council of Canada Postdoctoral Fellowship
- 1999 Izaak Walton Killam Memorial Scholarship
- 1999 Alberta Heritage Foundation for Medical Research Incentive Award
- 1999 Mary Louise Imire Graduate Student Award
- 1999 Andrew Stewart Memorial Graduate Prize
- 1998 Boehringer-Ingelheim Award for Organic and Bioorganic Chemistry
- 1998 University of Alberta, Faculty of Science Graduate Teaching Award
- 1998 University of Alberta Graduate Students' Association Teaching Award
- 1997 Alberta Heritage Foundation for Medical Research Graduate Scholarship
- 1997 Province of Alberta Graduate Fellowship

- 1996 Margaret Thompson Memorial Prize
1994 University of Manitoba Graduate Fellowship
1994 University of Manitoba, Faculty of Science Graduate Fellowship
1994 Accounts of Chemical Research Graduate Prize
1993 University of Manitoba Summer Research Scholarship
1993 University of Manitoba Graduate Students' Association Scholarship
1992 Reverend Joseph Hogg Scholarship

Peer-Reviewed Publications

55. Uyen, H.; Lim, D.; Uddin, M. D.; Wengryniuk, S. E.; McDonald, S. L.; Dey, S.; Coltart, D. M. "Formation, Alkylation and Hydrolysis of Chiral Nonracemic *N*-Amino Cyclic Carbamate Hydrazones: A Highly Effective Approach to the Enantioselective α -Alkylation of Ketones" *J. Org. Chem.* **2018** (in press).
- Selected as a feature article.
54. Rastelli, E. J.; Coltart, D. M. "A Stereodivergent Synthesis of β,γ -Fused Bicyclic γ -Lactones via a Multicomponent Ring Expansion Cascade" *Chem* **2018**, *4*, 2228–2238.
53. Uddin, M. D.; Coltart, D. M. "Mismatch-Free Double Asymmetric Induction Strategy for the Alkylation of Chiral Nonracemic Methyl Ketones" *Org. Lett.* **2018**, *20*, 3723–3727.
- Featured in *Synfact*, **2018**, 970.
52. Rastelli, E. J.; Coltart, D. M. "Synthesis and Biological Activity of Apratoxin Derivatives" *Tetrahedron* **2017**, *74*, 2269–2290.
51. Alfie, R. J.; Truong, N.; Yost, J. M.; Coltart, D. M. "A Kinetically Controlled Direct Aldol Addition of α -Chloro Thioesters via Soft Enolization" *Tetrahedron Lett.* **2017**, *58*, 185–189.
50. Rastelli, E. J.; Truong, N.; Coltart, D. M. "Asymmetric Induction in Hydroacylation by Cooperative Iminium Ion-Transition Metal Catalysis" *Org. Lett.* **2016**, *18*, 5588–5591.
49. Uyen, H.; Uddin, M. D.; Wengryniuk, S. E.; McDonald, S. L.; Coltart, D. M. "On the Regioselectivity, Diastereoselectivity and Hydrolysis in ACC Hydrazone Alkylation" *Tetrahedron* **2017**, *73*, 432–436.
48. Uyen, H.; Uddin, M. D.; Wengryniuk, S. E.; McDonald, S. L.; Coltart, D. M. "A Simple and Efficient Approach to the *N*-Amination of Oxazolidinones Using Monochloroamine" *Tetrahedron Lett.* **2016** *57*, 4799–4802.
47. Rastelli, E. J.; Coltart, D. M. "Asymmetric Synthesis of (+)-*anti*- and (–)-*syn*-Mefloquine Hydrochloride" *J. Org. Chem.* **2016**, *81*, 9567–9575.
46. Truong, N.; Sauer, S. J.; Seraphin-Hatcher, C.; Coltart, D. M. "Direct Carbon–Carbon Bond Formation via Reductive Soft Enolization: A *syn*-Selective Mannich Addition of α -Iodo Thioesters" *Org. Biomol. Chem.* **2016**, *14*, 7864–7868.
45. Uteuliyev, M. M.; Nguyen, T. T.; Coltart, D. M. "Diastereoselective addition of Grignard reagents to α -epoxy *N*-sulfonyl hydrazones" *Nature Chem.* **2015**, *7*, 1024–1027.
- Selected as "Synfact of the Month", *Synfacts*, **2016**, 71.
 - Featured in *Synform*, **2016**, A40–A41.
44. Rastelli, E. J.; Coltart, D. M. "A Concise and Highly Enantioselective Total Synthesis of (+)-*anti*- and (–)-*syn*-Mefloquine Hydrochloride: Definitive Absolute Stereochemical Assignment of the Mefloquines" *Angew. Chem. Int. Ed.* **2015**, *127*, 14276–14280.
- Selected as a "Hot Paper".
43. Tarsis, E. M.; Rastelli, E. J.; Wengryniuk, S. E.; Coltart, D. M. "The Apratoxin Marine Natural Products: Isolation, Structure Determination, and Asymmetric Total Synthesis" *Tetrahedron*

- 2015**, *71*, 5029–5044.
42. Dey, S.; Wengryniuk, S. E.; Tarsis, E. M.; Robertson, B. R.; Zhou, G.; Coltart, D. M. "A Formal Asymmetric Synthesis of Apratoxin D via Advanced-Stage Asymmetric ACC α,α -Bisalkylation of a Chiral Nonracemic Ketone" *Tetrahedron Lett.* **2015**, *56*, 2927–2929.
 41. Garnsey, M. R.; Uteuliyev, M.; Coltart, D. M. "Asymmetric Synthesis of Structural Analogues of (+)-Clusianone via Enantioselective ACC Alkylation" *Tetrahedron Lett.* **2015**, *56*, 3183–3185.
 - Invited submission to Harry Wasserman Memorial Issue.
 40. Knight, J. D.; Coltart, D. M. "Expanding the Scope of the Asymmetric Anti-Aldol Addition of Chiral *N*-Amino Cyclic Carbamate Hydrazones" *Tetrahedron Lett.* **2013**, *54*, 5470–5472.
 39. Knight, J. D.; Coltart, D. M. "Asymmetric Anti-Aldol Addition of Achiral Ketones via Chiral *N*-Amino Cyclic Carbamate Hydrazones" *Chem. Commun.* **2013**, *49*, 7495–7497.
 38. Robertson, B. D.; Wengryniuk, S. E.; Coltart, D. M. "Asymmetric Total Synthesis of Apratoxin D" *Org. Lett.* **2012**, *14*, 5192–5195.
 37. Hatcher, J. M.; Kohler, M. C.; Coltart, D. M. "Catalytic Asymmetric Addition of Thiols to Nitrosoalkenes: An Umpolung Strategy for the Synthesis of Chiral Non-Racemic α -Sulfonyl Ketones" *Org. Lett.* **2011**, *13*, 3810–3813.
Featured in *Synfacts*, **2011**, 1012.
 36. Knight, J. D.; Sauer, S. J.; Coltart, D. M. "Asymmetric Total Synthesis of the Anti-Malarial Drug (+)-Mefloquine Hydrochloride via Chiral *N*-Amino Cyclic Carbamate Hydrazones" *Org. Lett.* **2011**, *13*, 3118–3121.
 - Featured in *Synfact*, **2011**, 935.
 35. Wengryniuk, S. E.; Lim, D.; Coltart, D. M. "Regioselective Asymmetric α,α -Bisalkylation of Ketones via Complex Induced *Syn*-Deprotonation" *J. Am. Chem. Soc.* **2011**, *133*, 8714–8720.
 - Highlighted in: Enantioselective Construction of Alkylated Centers, Organic Chemistry Portal, February **2012**.
 34. Garnsey, M. R.; Matous, J. A.; Kwiek, J. J.; Coltart, D. M. "Asymmetric Total Synthesis of (+)- and (–)-Clusianone and (+)- and (–)-Clusianone Methyl Enol Ether via ACC Alkylation and Evaluation of their Anti-HIV Activity" *Bioorg. Med. Chem. Lett.* **2011**, *21*, 2406–2409.
 33. Yost, J. M.; Alfie, R.; Tarsis, E. T.; Coltart, D. M. "Direct Carbon–Carbon Bond Formation via Soft Enolization: Aldol Addition of α -Halogenated Thioesters" *Chem. Commun.* **2011**, *47*, 571–572.
 - Invited submission to Emerging Investigators Issue.
 32. Krenske, E. H.; Houk, K. N.; Lim, D.; Wengryniuk, S. E.; Coltart, D. M. "The Origins of Stereoselectivity in the α -Alkylation of Chiral Hydrazones" *J. Org. Chem.* **2010**, *75*, 8578–8584.
 31. Garnsey, M. R.; Lim, D.; Yost, J. M.; Coltart, D. M. "Development of a Strategy for the Asymmetric Synthesis of Polycyclic Polyprenylated Acylphloroglucinols via *N*-Amino Cyclic Carbamate Hydrazones: Application to the Total Synthesis of (+)-Clusianone" *Org. Lett.* **2010**, *12*, 5234–5237.
 30. Sauer, S. J.; Garnsey, M. R.; Coltart, D. M. "Direct Carbon–Carbon Bond Formation via Reductive Soft Enolization: A Kinetically Controlled *Syn*-Aldol Addition of α -Halo Thioesters" *J. Am. Chem. Soc.* **2010**, *132*, 13997–13999.
 - Featured in *Synfacts*, **2010**, 1388.
 29. Kohler, M. C.; Yost, J. M.; Garnsey, M. R.; Coltart, D. M. "Direct Carbon–Carbon Bond Formation via Soft Enolization: A Biomimetic Asymmetric Mannich Reaction of

- Phenylacetate Thioesters" *Org. Lett.* **2010**, *12*, 3376–3379.
28. Hatcher, J. M.; Coltart, D. M. "Copper(I) Catalyzed Addition of Grignard Reagents to *In Situ*-Derived *N*-Sulfonyl Azoalkenes: An Alkylation Procedure Applicable to the Formation of up to Three Contiguous Quaternary Centers" *J. Am. Chem. Soc.* **2010**, *132*, 4546–4547.
 - Featured in *Synfacts*, **2010**, 813.
 - Highlighted in: New Methods for Carbon–Carbon Bond Construction, Organic Chemistry Portal, February **2011**.
 27. Zhou, G.; Lim, D.; Fang, F.; Coltart, D. M. "A Practical Synthesis of β -Keto Thioesters via Direct Crossed-Claisen Coupling of Thioesters and *N*-Acylbenzotriazoles" *Synthesis* **2009**, 3350–3352.
 26. Yost, J. M.; Garnsey, M. R.; Kohler, M. C.; Coltart, D. M. "Direct Carbon–Carbon Bond Formation via Soft Enolization of Thioesters: An Operationally Simple Mannich Addition Reaction" *Synthesis* **2009**, 56–58.
 - Invited submission to 40th anniversary issue.
 25. Tarsis, E. T.; Gromova, A.; Lim, D.; Zhou, G.; Coltart, D. M. "Overcoming the Limitations of the Baylis-Hillman Reaction: A Rapid and General Synthesis of α -Alkenyl β -Hydroxy Thioesters" *Org. Lett.* **2008**, *10*, 4819–4822.
 24. Zhou, G.; Lim, D.; Coltart, D. M. "Direct Carbon–Carbon Bond Formation via Chemoselective Soft Enolization of Thioesters: A Remarkably Simple and Versatile Crossed-Claisen Reaction Applied to the Synthesis of LY294002" *Org. Lett.* **2008**, *10*, 3809–3812.
 - Featured in *Synfacts*, **2008**, 1314.
 - Highlighted as a name reaction in: Acetoacetic-Ester Condensation/Claisen Condensation, Organic Chemistry Portal, September **2008**.
 23. Lim, D.; Coltart, D. M. "Simple and Efficient Asymmetric α -Alkylation and α,α -Bisalkylation of Acyclic Ketones Using Chiral *N*-Amino Cyclic Carbamate Hydrazones" *Angew. Chem. Int. Ed.* **2008**, *47*, 5207–5210.
 - Featured in: (a) *Chemical and Engineering News*, **2008**, *86*, 48–49. b) *Chemistry World*, June 13, **2008**. (c) *Drug Discovery and Development*, July 1, **2008**. (d) *The Journal of Young Investigators*, June 17, **2008**.
 22. Lim, D.; Zhou, G.; Livanos, A. E.; Fang, F.; Coltart, D. M. "MgBr₂·OEt₂-Promoted Coupling of Ketones and Activated Acyl Donors via Soft Enolization: A Practical Synthesis of 1,3-Diketones" *Synthesis*, **2008**, 2148–2152.
 21. Zhou, G.; Yost, J. M.; Sauer, S.; Coltart, D. M. "A Facile and Efficient *Anti*-Selective Four-Component Direct Aldol Addition via Chemoselective Thioester Enolate Formation" *Org. Lett.* **2007**, *9*, 4663–4665.
 - Featured in *Synfacts*, **2008**, 56.
 20. Lim, D.; Fang, F.; Zhou, G.; Coltart, D. M. "Direct Carbon–Carbon Bond Formation via Soft Enolization: A Facile and Efficient Synthesis of 1,3-Diketones" *Org. Lett.* **2007**, *9*, 4139–4142.
 - Highlighted in: New Methods for Carbon–Carbon Bond Construction, Organic Chemistry Portal, June **2008**.
 19. Zhou, G.; Yost, J. M.; Coltart, D. M. "A Direct Aldol Addition of Simple Thioesters Employing Soft Enolization" *Synthesis* **2007**, 478–482.
 - Invited Paper
 18. Yost, J. M.; Zhou, G.; Coltart, D. M. "A Facile and Efficient Direct Aldol Addition of Simple Thioesters" *Org. Lett.* **2006**, *8*, 1503–1506.

- Featured in *Synfacts*, **2006**, 591.
- Chosen as a: Best Synthetic Method: Carbon–Carbon Bond Formation, Organic Chemistry Portal, May **2007**.

Graduate and Postdoctoral

17. Clive, D. L. J.; Hisaindee, S.; Coltart, D. M. "Derivatized Amino Acids Relevant to Protein Synthesis by Native Chemical Ligation" *J. Org. Chem.* **2003**, *68*, 9247–9254.
16. Coltart, D. M.; Danishefsky, S. J. "A Novel Synthetic Approach to the 8,10-Dimethyl *Anti-Syn-Anti* Perhydrophenanthrene Skeleton" *Org. Lett.* **2003**, *5*, 1289–1292.
15. Keding, S. J.; Endo, A.; Biswas, K.; Zatorski, A.; Coltart, D. M.; Danishefsky, S. J. "Hydroxynorleucine as a Glycosyl Acceptor is an Efficient Means for Introducing Amino Acid Functionality in to Complex Carbohydrates" *Tetrahedron Lett.* **2003**, *44*, 3413–3416.
14. Ragupathi, G.; Coltart, D. M.; Williams, L. J.; Koide, F.; Kagan, E.; Allen, J.; Harris, C.; Glunz, P. W.; Livingston, P. O.; * Danishefsky, S. J. * "On the Power of Chemical Synthesis: Immunological Evaluation of Models for Multiantigenic Carbohydrate-Based Cancer Vaccines" *Proc. Natl. Acad. Sci. (U.S.A.)* **2002**, *99*, 13699–13704.
13. Biswas, K.; Coltart, D. M.; Danishefsky, S. J. "Construction of Carbohydrate-Based Antitumor Vaccines: Synthesis of Glycosyl Amino Acids by Olefin Cross-Metathesis" *Tetrahedron Lett.* **2002**, *43*, 6107–6110.
12. Coltart, D. M.; A. K. Royyuru; Williams, W. J.; Glunz, P. W.; Sames, D.; Kuduk, S. D.; Schwarz, J. B.; Chen, X.-T.; Danishefsky, S. J.; Live, D. H. "Principles of Mucin Architecture: Structural Studies on Synthetic Glycopeptides Bearing Clustered Mono-, Di-, Tri- and Hexasaccharide Glycodomains" *J. Am. Chem. Soc.* **2002**, *124*, 9833–9844.
11. Ragupathi, G.; Deshpande, P. P.; Coltart, D. M.; Kim, H. J.; Williams, L. J.; Danishefsky, S. J.; Livingston, P. O. * "Constructing an Adenocarcinoma Vaccine: Immunization of Mice with Synthetic KH-1 Nonasaccharide Stimulates Anti-KH-1 and Anti-Ley Antibodies" *Intl. J. Cancer* **2002**, *99*, 207–212.
10. Clive, D. L. J.; Coltart, D. M.; Zhou, Y.; de Lima, D. P.; Yang, H.; Lewanczuk, R. Z. "Synthesis of the Naturally Occurring ACE Inhibitors (–)-A58365A and (–)-A58365B, and of an Unnatural but Biologically Active Analog" In *Actualité de Chimie Thérapeutique*, French Society of Medicinal Chemistry, **2002**, 28th series, 21–50.
9. Coltart, D. M. "Peptide Segment Coupling by Prior Ligation and Proximity-Induced Intramolecular Acyl Transfer" *Tetrahedron* **2000**, *56*, 3449–3491. (Review)
8. Pelisson, M. M.; da Silva, G. V. J.; Clive, D. L. J.; Coltart, D. M.; Hof, F. A. "Studies on the Preparation of 3,4-Disubstituted 2-Methoxypyridines" *J. Heterocyclic Chem.* **1999**, *36*, 653–658.
7. Clive, D. L. J.; Coltart, D. M.; Zhou, Y. "Synthesis of the Angiotensin-Converting Enzyme Inhibitors (–)-A58365A and (–)-A58365B from a Common Intermediate" *J. Org. Chem.* **1999**, *64*, 1447–1454.
6. Clive, D. L. J.; Coltart, D. M. "Synthesis of the Angiotensin-Converting Enzyme Inhibitor (±)-A58365A" *Tetrahedron Lett.* **1998**, *39*, 2519–2522.
5. Coltart, D. M.; Charlton, J. L. "The Asymmetric Synthesis of Aryltetralin Lignans: (–)-Isolariciresinol Dimethyl Ether and (–)-Deoxysikkimotoxin" *Can. J. Chem.* **1996**, *74*, 88–94.

Book Chapters and Encyclopedia Articles

4. Kohler, M. C.; Wengryniuk, S. E.; Coltart, D. M. "Asymmetric Alkylations in Stereoselective Synthesis". In *Stereoselective Synthesis of Drugs and Natural Products*; Andrushko, V.;

- Andrushko, N. Eds. Wiley-Blackwell: 2013, pp. 183–213. (Book chapter)
3. Hatcher, J. M.; Coltart, D. M. "Bis(phenylthio)methane". In *Encyclopedia of Reagents for Organic Synthesis*; Fuchs, P. L. Ed.; John Wiley & Sons: 2011. (Encyclopedia Article)
 2. Yost, J. M.; Knight, J. D.; Coltart, D. M. "Tris(2-carboxyethyl)phosphine Hydrochloride". In *Encyclopedia of Reagents for Organic Synthesis*; Crich, D. Ed.; John Wiley & Sons: 2009. (Encyclopedia Article)
 1. Garnsey, M. R.; Wengryniuk, S. E.; Coltart, D. M. "Triphenylmethanethiol". In *Encyclopedia of Reagents for Organic Synthesis*; Crich, D. Ed.; John Wiley & Sons: 2009. (Encyclopedia Article)

Patents

1. Novel Glycoconjugates, Glycoamino Acids, Intermediates Thereto, and Uses Thereof. Danishefsky, S. J.; Coltart, D. M.; Keding, S. J.; Biswas, K.; Livingston, P. O. Ragupathi, G.; Allen, J.; Williams, L. J.; U.S. Patent No. 7,854,934, issued December 21, 2010.

Presentations

57. MD Anderson Cancer Center, Houston, TX, October 26, 2018.
56. 5th International Conference on Organic and Inorganic Chemistry (Keynote Speaker), Paris, France, July 12-13, 2018.
55. ESPCI Paris, Paris, France, July 12, 2018.
54. 4th European Organic Chemistry Congress, London, England, March 1-3, 2018.
53. 4th European Chemistry Congress (Keynote Speaker), Barcelona, Spain, May 11-13, 2017.
52. University of Texas at Arlington, Arlington, TX, May 5, 2017.
51. American Chemical Society National Meeting, Denver, CO, March 22–26, 2015.
50. Lamar University, Beaumont, TX, February 6, 2015.
49. Natural Products Gordon Research Conference, Andover, NH, July 20, 2014.
48. Natural Products Gordon Research Conference, Andover, NH, July 29, 2013.
47. University of Kentucky, February 9, 2012
46. Indiana University, October 11, 2011
45. University of Houston, December 6, 2011
44. Natural Products Gordon Research Conference, Smithfield, RI, July 24, 2011.
43. North Carolina A&T State University, Greensboro, NC, March 3, 2011.
42. American Chemical Society National Meeting, Boston, MA, August 22–26, 2010.
41. Wake Forest University, Winston-Salem, NC, April 9, 2010
40. University of California, Santa Barbara, Santa Barbara, CA, April 2, 2010.
39. California Institute of Technology, Pasadena, CA, April 1, 2010.
38. University of California, Irvine, Irvine, CA, March 31, 2010.
37. University of Pittsburgh, Pittsburgh, PA, March 19, 2010.
36. Yale University, New Haven, CT, February 26, 2010.
35. Columbia University, New York, NY, February 25, 2010.
34. New York University, New York, NY, February 24, 2010.
33. The Memorial Sloan-Kettering Cancer Center, New York, NY, February 23, 2010.
32. The University of Delaware, Newark, DE, February 17, 2010.
31. The University of Kansas, Lawrence, KS, January 21, 2010.
30. Florida State University, Tallahassee, FL, December 3, 2009.
29. The University of Florida, Gainesville, FL, December 1, 2009.
28. The University of Pennsylvania, Philadelphia, PA, November 16, 2009.

27. The Ohio State University, Columbus, OH, November 12, 2009.
26. GSK, Research Triangle Park, NC, November 4, 2009.
25. The University of Alberta, Edmonton, Alberta, October 19, 2009.
24. The University of Manitoba, Winnipeg, Manitoba, October 2, 2009.
23. The University of North Carolina, Chapel Hill, NC, September, 25, 2009.
22. Winthrop University, Rock Hill, NC, September 10, 2009.
21. Young Academic Investigators Symposium – American Chemical Society National Meeting, Washington, DC, August 16-20, 2009.
20. Eli Lilly, Indianapolis, IN, July 21, 2009.
19. Natural Products Gordon Research Conference, Andover, NH, July 26, 2009.
18. NSF Workshop Organic Synthesis and Natural Products Chemistry, Gold Lake, CO, 2008.
17. Natural Products Gordon Research Conference, Andover, NH, July 20, 2008.
16. French American Chemical Society, Santa Barbara, CA, June 8, 2008.
15. International Symposium on the Organic Chemistry of Sulfur (ISOCS-22), Saitama, Japan, August 20–26, 2006.
14. Bioorganic Chemistry Gordon Research Conference, Andover, NH, June 13–18, 2004.
13. California Institute of Technology, Pasadena, CA, February 4, 2004.
12. Washington University, St. Louis, MO, January 22, 2004.
11. Vanderbilt University, Nashville, TN, January 14, 2004.
10. The Scripps Research Institute, La Jolla, CA, December 18, 2003.
9. Duke University, Durham, NC, December 2, 2003.
8. Banff Symposium on Organic Chemistry, Banff, Alberta, November 7–9, 2003.
7. Cornell Weil Graduate School of Medical Science, New York, NY, October 29, 2003.
6. Columbia University, New York, NY, September 4, 2003.
5. Canadian Society of Chemistry Conference and Exhibition, Ottawa, Ontario, August 10–15, 2003.
4. University of Alberta, Edmonton, Alberta, August 25, 2000.
3. American Chemical Society National Meeting, New Orleans, LA, August 22–26, 1999.
2. Canadian Society of Chemistry Conference and Exhibition, Toronto, Ontario, May 30–June 2, 1999.
1. University of Alberta, Edmonton, Alberta, April 15, 1998.

Service Activities

University of Houston

| | |
|--|--------------|
| Member of the University of Houston Libraries Committee | 2016–present |
| Member of the University of Houston Teaching Excellence Awards Committee | 2017–present |
| Member of the Graduate Studies Committee | 2012–2015 |
| Graduate Student Seminar Coordinator (CHEM 6111) | 2013–2014 |
| Member of Oral Research Progress Committees in the Department of Chemistry | 2012–present |
| Member of Ph.D. Dissertation Committees in the Department of Chemistry | 2012–Present |

Duke University

| | |
|--|-----------|
| Member of the Seminar Committee | 2004–2007 |
| Member of the Graduate Student Recruiting Committee | 2005–2007 |
| Chair of the Seminar Committee | 2007–2008 |
| Member of Candidacy Exam Committees in the Department of Chemistry | 2004–2012 |
| Member of Ph.D. Dissertation Committees in the Department of Chemistry | 2004–2012 |

In the Broader Scientific Community

Panelist for funding proposal review for the *American Cancer Society (ACS)*
 Panelist for funding proposal review for the *National Institute of Health (NIH)*
 Reviewer of funding proposals for the *National Science Foundation (NSF)*
 Reviewer of funding proposals for the *American Chemical Society Petroleum Research Fund (ACS-PRF)*
 Reviewer of manuscripts for *Science, Nature, Nature Chemistry, Journal of the American Chemical Society, Journal of Organic Chemistry, Organic Letters, ACS Catalysis, Angewandte Chemie International Edition, Chemical Communications, Tetrahedron Letters, Bioorganic and Medicinal Chemistry Letters, Synthesis, ChemMedChem, Carbohydrate Chemistry, Beilstein Journal of Organic Chemistry*
 Session chair, 249th American Chemical Society National Meeting & Exposition
 Session chair, 240th American Chemical Society National Meeting & Exposition

Supervised Coworkers*Current Graduate Students (with previous academic affiliation)*

| | | |
|--------------------|-------|--------------------------------------|
| Sabrina Aderibigbe | 2015– | (B.S. University of Utah 2015) |
| Kyle Elmore | 2015– | (B.S. University of Houston 2015) |
| Andrew Bollinger | 2014– | (B.S. Colorado Mesa University 2013) |
| Ngoc Truong | 2014– | (B.S. University of Houston 2010) |

Former Graduate Students

| | | |
|------------------|------------|---|
| Ettore Rastelli | Ph.D. 2017 | Postdoc: P. Wipf, University of Pittsburgh |
| Maulen Uteuliyev | Ph.D. 2017 | Postdoc: M. Krische, UT Austin |
| Nasir Uddin | Ph.D. 2017 | Postdoc: S. Millward, UT MD Anderson Cancer Center and Rice University |
| Uyen Huynh | Ph.D. 2017 | Postdoc: M. Zastrow, University of Houston |
| Thien Nguyen | Ph.D. 2017 | Current position: Researcher and Lecturer, Duy Tan University |
| Michelle Garnsey | Ph.D. 2012 | Postdoc: L. Overman, University of California, Irvine Current position: Senior Research Scientist, Pfizer, Groton, CT |
| Mark Kohler | Ph.D. 2012 | Current position: Senior Consultant, PriceSpective, Atlanta, GA |
| John Knight | Ph.D. 2012 | Postdoc: M. Crimmins, UNC, Chapel Hill Current position: Assistant Professor; The Citadel |
| Sarah Wengryniuk | Ph.D. 2012 | Postdoc: P. Baran, The Scripps Research Institute – San Diego Current position: Assistant Professor; Temple University |
| John Hatcher | Ph.D. 2011 | Postdoc: N. Gray, Harvard Medical School Current position: Staff Scientist, N. Gray research group, Harvard Medical School |
| Scott Sauer | Ph.D. 2011 | Postdoc: G. Devi, Duke University Medical School |
| Emily Tarsis | Ph.D. 2010 | Postdoc: G. Micalizio, The Scripps Research Institute – Florida |

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|---------------|------------|---|
| Julianne Yost | Ph.D. 2009 | Current position: Lecturer, Connecticut College Postdoc: J. Jin, UNC Chapel Hill Current position: Weiss Instructor of Chemistry, Rice University |
| Guoqiang Zhou | Ph.D. 2009 | Postdoc: J. Winkler, University of Pennsylvania Current position: Senior Scientist, Eli Lilly, Shanghai, China |
| Rachel Alfie | M.Sc. 2009 | Current position: Research Associate, QD Vision, Lexington, MA |
| Dan Lim | Ph.D. 2008 | Postdoc: S. Miller, Yale University Current position: Assistant Professor, Yeshiva University |
| Fang Fang | M.Sc. 2007 | M.Sc. Economics, Duke University |

Former Undergraduate Students (University of Houston)

| | |
|----------------|--|
| Aaron Pontifes | 2013 |
| Nata Cise | 2013 |
| Kyle Elmore | 2013 (U of H Summer Undergraduate Research Fellowship) |
| Ngoc Truong | 2012 |

Former Undergraduate Students (Duke University)

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|-------------------|------|
| Insun Chong | 2011 |
| Justin Torosian | 2010 |
| Beth Calloway | 2008 |
| Alexandra Livanos | 2008 |
| Cyndie Seraphin | 2008 |
| -Hatcher | |
| Drew Schwartz | 2007 |
| Jason Ferguson | 2006 |
| Doug Friedman | 2006 |
| Ellen Sun | 2006 |
| Alex Herskovic | 2006 |
| Sarah Wallace | 2005 |

Former Postdoctoral Scholars

| | |
|------------------|-------------|
| Dr. Sumit Dey | 2014 – 2015 |
| Dr. Peng Xu | 2013 – 2014 |
| Dr. Anna Gromova | 2004 – 2006 |