

CURRICULUM VITAE

JON T. NJARDARSON

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EDUCATION:

B. S. in Chemistry, May 1993, University of Iceland, Reykjavik, Iceland.
(Research Advisor: Professor Jon K. F. Geirsson)

Ph. D. in Chemistry, May 2011, Yale University, New Haven, Connecticut, USA.
Dissertation Title: “*The Development of a Synthetic Strategy for the Total Synthesis of Phomoidride A (CP-225,917) and Phomoidride B (CP-263,114)*”
Thesis Advisor: Professor John L. Wood

Employment:

2010 – Present Associate Professor, Department of Chemistry and Biochemistry
University of Arizona, Tucson, AZ

2005 – 2010 Tri-Institutional Assistant Professor
MSKCC, Weill-Cornell and Rockefeller University, New York, NY

2004 – 2010 Assistant Professor, Department of Chemistry and Chemical Biology
Cornell University, Ithaca, NY

2001 – 2004 Postdoctoral Fellow, *Memorial-Sloan Kettering Cancer Center, New York, NY*
Professor Samuel J. Danishefsky (postdoctoral advisor)

Honors and Awards:

2009 Merrill Presidential Scholar Outstanding Educator

2008 Thieme Chemistry Journal Award

2006 Marilyn Emmons Williams Award

2001 General Motors Cancer Research Scholar Program Award

1995 Helgu Jonsdottir and Sigurlida Kristjansson Memorial Foundation Award

Service and Outreach:

DEPARTMENTAL SERVICE:

- 2004 – 2007 Chemistry Safety Committee (*Cornell University*)
2005 – 2007 Chaired and organized the Wentink Student Awards (*Cornell University*)
2005 – 2006 Chaired the Work Student Award Committee (*Cornell University*)
2006 – 2008 Faculty Search Committee (*Cornell University*)
2007 Chair and organizer for the Baker Symposium (*Cornell University*)
2007 – 2010 Chair and organized all seminars for the department (*Cornell University*)
2010 – 2011 Drug Discovery Faculty Search Committee
2011 Committee for Faculty Web Page Development
2010 – 2013 Graduate Student Recruiting Committee
2011 – 2013 Space Committee
2011 – 2013 Chair and organizer of Student Monday Organic Seminar Series
2011 – 2013 Future Space Committee
2012 – present Outreach Committee
2012 – 2013 NMR Facility Manager Search Committee
2012 – present Graduate Program Committee
2013 – present Chair and organizer of all Colloquium for CBC
2013 – present Career Development Committee for Lecturers
2013 – present Mass Spec. Assistant Search Committee

UNIVERSITY, COLLEGE AND OTHER SERVICE

- 2004 – 2007 Physical Sciences Library Committee (*Cornell University*)
2010 – 2011 Faculty Search Committee (University of Arizona, Department of Pharmacy)
2011 – 2013 Faculty Search Committee (University of Arizona, Department of Pharmacy)
2012 – 2013 Bio5 Oro Valley Leadership Committee
2013 - present Undergraduate Biology Research Program (UBRP) Selection Committee

SERVICE AS REVIEWER

- Funding Agencies: National Science Foundation (NSF)
National Institute of Health (NIH)
American Chemical Society Petroleum Research Fun (ACS PRF)
US – Israel Bi-National Science Foundation (BSF)
Research Corporation for Science Advancement

Journals: *Journal of the American Chemical Society, Organic Letters, Nature Chemistry, Angewandte Chemie International Edition, Tetrahedron, Synthesis, Synlett, European Journal of Organic Chemistry, Bioorganic & Medicinal Chemistry, Chemistry A European Journal, Tetrahedron Letters, Journal of Organic Chemistry*

BOOKS: John Wiley & Sons.

LOCAL AND STATE OUTREACH

2005 – 2008 CCMR Institute for Chemistry Teachers (*Cornell University*)
2006 – 2009 Faculty Fellow, Bauer Hall (*Cornell University*)
2011 – present High School Student Weekend for Chemistry and Biochemistry

NATIONAL AND INTERNATIONAL OUTREACH

2006 – present Created and Launched the Top200 Drug Poster Project (updated yearly)
2006 Session Chair, 232 ACS National Meeting, San Francisco, California
2009 Session Chair, GRC Heterocycles, Newport, Rhode Island
2009 Session Chair, GRC Natural Products, Tilton, New Hampshire
2011 NSF Panel Member
2011 Hosted an NSF-REU Summer Student Trainee (Lauren E. Cooney)
2011 Hosted a Visiting Faculty from Mexico (Dr. Mauricio Navarro Villalobos)
2011 – present Created and Launched Chemistry By Design (updated weekly)
2012 – present Created and Launched the “Njardarson Group Disease Focused Posters”
2013 – present Created and Launched the “Njardarson Group Structure Focused Posters”

Publications (chronological order):

**Indicates publications substantially based on work prior to initial faculty appointment, i.e. as undergraduate student, graduate student or postdoctoral fellow.*

CHAPTERS IN SCHOLARLY BOOKS AND MONOGRAPHS:

- 1.* Njardarson, J. T.; Garbaccio, R. M.; Danishefsky, S. J. “Radicicol and the Epothilones: Total Synthesis of Novel Anti-Cancer Agents Using Ring Closing Metathesis”, in “Handbook of Metathesis” Ed. Grubbs, Robert H.; Wiley, New York, **2003**, Chapter 2.9, Appendix 3, p353.

PEER REVIEWED JOURNAL ARTICLES:

- 2.* Geirsson, J. K. F.; Njardarson, J. T. "A Facile Synthesis of α -Phosphono Esters through Methoxycarbonylation of α -Phosphono Carbanions", *Tetrahedron Lett.* **1994**, *35*, 9071-9072.
- 3.* Geirsson, J. K. F.; Gudmundsson, B. O.; Johannesdottir, J. F.; Njardarson, J. T.; Skulason, V. "Concise Synthetic Route to Pure Isomers of the Antifungal Agents (E)- and (Z)-1,2-Diaryl-3-(1-imidazolyl)-1-propenes", *Acta Chem. Scand.* **1995**, *49*, 423-427.
- 4.* Njardarson, J. T.; Wood, J. L. "Evolution of a Synthetic Approach to CP-263,114", *Org. Lett.* **2001**, *3*, 2431-2434.
- 5.* Njardarson, J. T.; MacDonald, I.; Spiegel, D. A.; Inoue, M.; Wood, J. L. "An Expedient Approach Towards the Total Synthesis of CP-263,114", *Org. Lett.* **2001**, *3*, 2435-2438.
- 6.* Drutu, I.; Njardarson, J. T.; Wood, J. L. "Reactive Dienes: Intramolecular Aromatic Oxidation of 3-(2-Hydroxyphenyl)-propionic Acids", *Org. Lett.* **2002**, *4*, 493-496.
- 7.* Spiegel, D. A.; Njardarson, J. T.; Wood, J. L. "CP-263,114 Synthetic Studies. Construction of an Isotwistane Ring System via Rhodium Carbenoid C-H Insertion", *Tetrahedron* **2002**, *58*, 6545-6554.
- 8.* Biswas, K.; Lin, H.; Njardarson, J. T.; Chappell, M. D.; Chou, T.-C.; Guan, Y.; Tong, W. P.; He, L.; Horwitz, S. B.; Danishefsky, S. J. "Highly Concise Routes to Epothilones: The Total Synthesis and Evaluation of Epothilone 490", *J. Am. Chem. Soc.* **2002**, *124*, 9825-9832.
- 9.* Rivkin, A.; Njardarson, J. T.; Biswas, K.; Chou, T.-C.; Danishefsky, S. J. "Total Syntheses of [17]- and [18]Dehydrodesoxyepothilones B via a Concise Ring-Closing Metathesis-Based Strategy: Correlation of Ring Size with Biological Activity in the Epothilones Series", *J. Org. Chem.* **2002**, *67*, 7737-7740.
- 10.* Njardarson, J. T.; Biswas, K.; Danishefsky, S. J. "Application of Hitherto Unexplored Macrocyclization Strategies in the Epothilone Series: Novel Epothilone Analogs by Total Synthesis", *Chem Commun.* **2002**, 2759-2761.
- 11.* Gaul, C.; Njardarson, J. T.; Danishefsky, S. J. "The Total Synthesis of (+)-Migrastatin", *J. Am. Chem. Soc.* **2003**, *125*, 6042-6043.
- 12.* Spiegel, D. A.; Njardarson, J. T.; McDonald, I.; Wood, J. L. "Innovation and Art in Organic Chemistry: Synthetic Efforts Toward the Phomoidrides", *Chem. Rev.* **2003**, *103*, 2691-2727.
- 13.* Wood, J. L.; Graeber, J. K.; Njardarson, J. T.; "Application of Phenolic Oxidation Chemistry in Synthesis: Preparation of the BCE Ring System of Ryanodine", *Tetrahedron*

2003, 59, 8855-8858.

- 14.* Njardarson, J. T.; Gaul, C.; Shan, D.; Huang, X.-Y.; Danishefsky, S. J. "Discovery of Potent Cell Migration Inhibitors through Total Synthesis: Lessons from Structure-Activity Studies of (+)-Migrastatin", *J. Am. Chem. Soc.* **2004**, *126*, 1038-1040.
- 15.* Gaul, C.; Njardarson, J. T.; Shan, D.; Dorn, D. C.; Wu, K.-D.; Tong, W. P.; Huang, X.-Y.; Moore, M. A.; Danishefsky, S. J. "The Migrastatin Family: Discovery of Promising Tumor Cell Migration Inhibitors by Chemical Synthesis", *J. Am. Chem. Soc.* **2004**, *126*, 11326-11337.
- 16.* Shan, D.; Chen, L.; Njardarson, J. T.; Gaul, C.; Ma, X.; Danishefsky, S. J.; Huang, X.-Y. "Synthetic Analogues of Migrastatin That Inhibit Mammary Tumor Metastasis in Mice", *Proc. Natl. Acad. Sci. U. S. A.* **2005**, *102*, 3772-3776.
- 17.* Nagorny, P.; Krauss, I.; Njardarson, J. T.; Perez, L.; Gaul, G.; Yang, G.; Ouerfelli, O.; Danishefsky, S. J. "Confirmation of the Structure of Synthetic Derivatives of Migrastatin in the Light of Recently Disclosed Crystallographically Based Claims", *Tetrahedron Lett.* **2010**, *51*, 3873-3875.
- 18.* Lecomte, N.; Njardarson, J. T.; Nagorny, P.; Yang, G.; Downey, R. J.; Ouerfelli, O.; Moore, M. A. S.; Danishefsky, S. J. "Emergence of Potent Inhibitors of Metastasis in Lung Cancer via Syntheses Based Migrastatin", *Proc. Natl. Acad. Sci. U. S. A.* **2011**, *108*, 15074-15078.

PUBLICATIONS POST FACULTY APPOINTMENT, 2004.

[†] Undergraduate student co-authors on publication: #18 and #19 (C. E. McInnis), #21 (S. R. Schiffman), #23 (D.-E. Lee), #25 and #26 (J. D. Freeman and L. D. Kwon), #28 (L. D. Kwon), #29 (E. S. Bartlett and S. Sittihan), #33 (J. R. Binner and G. Markopoulos), #34 (A. Plichta), #36 (I. Lin) and #39 (G. Schwarzwaldner)

Corresponding Author(s) underlined

19. Batory, L. A.; McInnis, C. E.; Njardarson, J. T.; "Copper Catalyzed Rearrangement of Vinyl Oxiranes", *J. Am. Chem. Soc.* **2006**, *128*, 16054-16055.
20. Rogers, E.; Araki, H.; Batory, L. A.; McInnis, C. E.; Njardarson, J. T.; "Highly Selective Copper-Catalyzed Ring Expansion of Vinyl Thiiranes: Application to Synthesis of Biotin and the Heterocyclic Core of Plavix[®]", *J. Am. Chem. Soc.* **2007**, *129*, 2768-2769.
21. McDewitt, M. R.; Chattopadhyay, D.; Kappel, B. J.; Jaggi, J. S.; Schiffman, S. R.; Antczak, C.; Njardarson, J. T.; Scheinberg, D. A.; "Tumor Targeting with Antibody-Functionalized, Radiolabeled Carbon Nanotubes", *J. Nuc. Med.* **2007**, *48*, 1180-1189.

22. McDewitt, M. R.; Chattopadhyay, D.; Jaggi, J. S.; Finn, R. D.; Zanzonico, P. B.; Villa, C.; Rey, D.; Mendenhall, J.; Batt, C. A.; Njardarson, J. T.; Scheinberg, D. A.; "PET Imaging of Soluble Yttrium-86-Labeled Carbon Nanotubes in Mice", *PLoS One* **2007**, *2*, e907.
23. Brichacek, M.; Njardarson, J. T.; Lee, D.-E.;[‡] "Lewis Acid Catalyzed [1,3]-Sigmatropic Rearrangement of Vinyl Aziridines", *Org. Lett.* **2008**, *10*, 5023-5026.
24. McGrath, N.; Lee, C. A.; Araki, H.; Brichacek, M.; Njardarson, J. T.; "An Efficient Substrate Controlled Synthesis of Hypoestoxide, a Member of a Unique Family of Diterpenoid Natural Products with an Inside-Out [9.3.1]Bicyclic Core", *Angew. Chem. Int. Ed.* **2008**, *47*, 9450-9453.
25. Morton, J. G. M.; Kwon, L. D.;[‡] Freeman, J. D.;[‡] Njardarson, J. T.; "An Adler Oxidation Approach to Vinigrol", *Tetrahedron Lett.* **2009**, *50*, 1684-1686.
26. Morton, J. G. M.; Kwon, L. D.;[‡] Freeman, J. D.;[‡] Njardarson, J. T.; "Efforts Towards the Total Synthesis of Vinigrol", *Synlett* **2009**, 23-27.
27. Brichacek, M.; Njardarson, J. T.; "Creative Approaches Towards the Synthesis of 2,5-Dihydro- Furans, Thiophenes and Pyrroles. One Method Does Not Fit All!", *Org. Biomol.* **2009**, *7*, 1761-1770.
28. Morton, J. G. M.; Dragichi, C.; Kwon, L. D.;[‡] Njardarson, J. T.; "Rapid Assembly of Vinigrol's Unique Carbocyclic Skeleton", *Org. Lett.* **2009**, *11*, 4492-4495.
29. McGrath, N. A.; Bartlett, E. S.;[‡] Sittihan, S.;[‡] Njardarson, J. T.; "A Concise Ring Expansion Route to the Compact Core of Platensimycin", *Angew. Chem., Int. Ed.* **2009**, *48*, 8543-8546.
30. Brichacek, M.; Batory, L. A.; Njardarson, J. T.; "A Stereoselective Ring Expansion of Vinyl Oxiranes. Mechanistic Insights and Natural Product Total Synthesis", *Angew. Chem. Int. Ed.* **2010**, *49*, 1648-1651.
31. McGrath, N. A.; Brichacek, M.; Njardarson, J. T.; "A Graphical Journey of Innovative Organic Architectures That Have Improved Our Lives", *J. Chem. Ed.* **2010**, *87*, 1348-1349.
32. Brichacek, M.; Batory, L. A.; McGrath, N. A.; Njardarson, J. T.; "The Strategic Marriage of Method and Motif. Total Synthesis of Varitriol", *Tetrahedron* **2010**, *66*, 4832-4840.
33. McGrath, N. A.; Binner, J. R.;[‡] Markopoulos, G.;[‡] Brichacek, M.; Njardarson, J. T.; "An Efficient Oxidative Dearomatization-Radical Cyclization Approach to Symmetrically Substituted Bicyclic Guttiferone Natural Products", *Chem. Commun.* **2011**, *47*, 209-211.
34. Brichacek, M.; Navarro Villalobos, M.; Plichta, A.;[‡] Njardarson, J. T.; "Stereospecific Ring Expansion of Chiral Vinyl Aziridines", *Org. Lett.* **2011**, *13*, 1110-1113.

35. Njardarson, J. T.; “Synthetic Efforts Toward [3.3.1] Bridged Bicyclic Phloroglucinol Natural Products”, *Tetrahedron* **2011**, 67, 7631-7666 (*Invited Tetrahedron Report*).
36. Li, F.; Calabrese, D.; Brichacek, M.; Lin, I.,[‡] Njardarson, J. T.; “Efficient Synthesis of Thiopyrans Using Sulfur Enabled Anionic Cascade”, *Angew. Chem. Int. Ed.* **2012**, 51, 1938-1941.
37. Mack, D. J.; Batory, L. A.; Njardarson, J. T.; “Intermolecular Oxonium Ylide Mediated Synthesis of Medium Sized Oxacycles”, *Org. Lett.* **2012**, 14, 378-381.
38. Njardarson, J. T.; “Pharmaceutical Structure Montages as Catalysts for Design and Discovery” *Future Med. Chem.* **2012**, 4, 951-954. (*Invited Editorial*).
39. Guo, B.; Schwarzwald, G.,[‡] Njardarson, J. T.; “Synthesis and Catalytic Ring Expansion of Vinyl Oxetanes. Asymmetric Synthesis of Dihydropyrans Using Chiral Counterion Catalysis”, *Angew. Chem. Int. Ed.* **2012**, 51, 5675-5678.
40. Draghici, C.; Njardarson, J. T.; “Chemistry By Design – A Web Based Educational Flashcard for Exploring Synthetic Organic Chemistry”, *J. Chem. Ed.* **2012**, 89, 1080.
41. Mack, D. J.; Guo, B.; Njardarson, J. T.; “Synthesis of Allylic and Homoallylic Alcohols from Unsaturated Cyclic Ethers Using a Mild and Selective C-O Reduction Approach”, *Chem. Commun.* **2012**, 48, 7844.
42. Mack, D. J.; Isoe, J.; Miesfeld, R. L.; Njardarson, J. T.; “Distinct Biological Effects of Golgicide A Derivatives on Larval and Adult Mosquitos” *Bioorg. Med. Chem. Lett.* **2012**, 22, 5177.
43. Njardarson, J. T.; “Reactions at Your Fingertips”, *Nature Chem.* **2012**, 4, 590.
44. Mack, D. J.; Njardarson, J. T.; “New Mechanistic Insights into the Copper Catalyzed Ring Expansion of Vinyl Aziridines. Evidence in Support of a Copper(I) Catalyzed Pathway”, *Chem. Sci.* **2012**, 3, 3321.
45. Mustard, T. J. L.; Mack, D. J.; Njardarson, J. T.; Cheong, P. H.-Y.; “Mechanism and the Origins of Stereospecificity in Copper Catalyzed Ring Expansion of Vinyl Oxiranes: A Traceless Dual Transition Metal-Mediated Process”, *J. Am. Chem. Soc.* **2013**, 134, 1471.
46. Mack, D. J.; Njardarson, J. T.; “Syntheses and Structural Confirmations of Members of a Heterocycle Containing Family of Labdane Diterpenoids”, *Angew. Chem. Int. Ed.* **2013**, 52, 1543.
47. Mack, D. J.; Njardarson, J. T.; “Recent Advances in the Metal Catalyzed Ring Expansions of Three and Four Membered Rings”, *ACS Catalysis* **2013**, 3, 272 (*Invited Review*).
48. Njardarson, J. T.; “Catalytic Ring Expansion Adventures”, *Synlett* **2013**, 787 (*Invited Account*).

49. Ilardi, E. A.; Vitaku, E.; Njardarson, J. T. “An In-*Pharm*-ative Educational Poster Anthology Highlighting the Therapeutic Agents that Chronicle Our Medicinal History”, *J. Chem. Ed.* **2013**, *90*, 1403.
50. Yang, Q.; Njardarson, J. T.; Draghici, C.; Li, F. “Total Synthesis of Vinigrol”, *Angew. Chem. Int. Ed.* **2013**, *52*, 8648.
51. Ilardi, E. A.; Vitaku, E.; Njardarson, J. T. “Data Mining for Sulfur and Fluorine: An Evaluation of Pharmaceuticals to Reveal Opportunities for Drug Design and Discovery” *J. Med. Chem.* **2013**, ASAP.
52. Ilardi, E. A.; Njardarson, J. T.; “Ring Expansions of Vinyl- Oxiranes, Thiiranes and Aziridines: Synthetic Approaches, Challenges and Catalytic Success Stories”, *J. Org. Chem.* **2013**, *78*, 9533.
53. Guo, B.; Njardarson, J. T.; “Z-Selective Ring Opening of Vinyl Oxetanes with Dialkyl Dithiophosphate Nucleophiles”, *Chem. Commun.* **2013**, *49*, 10802.
54. Yang, Q.; Draghici, C.; Njardarson, J. T.; Li, F.; Smith, B. R.; Das, P. “Oxidative Dearomatization Enabled Total Synthesis of Vinigrol”, *Org. Biomol. Chem.* **2013** ASAP.
55. Yang, Q.; Njardarson, J. T.; “Base Mediated Deprotection Strategies for Trifluoroethyl Ether (TFEE), a New Alcohol Protecting Group”, *Tetrahedron. Lett.* **2013**, *54*, 7080.

MANUSCRIPTS IN PREPARATION.

56. Vitaku, E.; Njardarson, J. T.; “Efficient Synthesis of Complex Chromenes Using a Tandem Oxidative Dearomatization-Radical Cyclization Approach”, *November 2013 Org. Lett. submission planned.*
57. Chogii, I.; Njardarson, J. T.; “A Useful One Pot Anionic Cascade Approach to Chiral Pyrrolines”, *November 2013 J. Am. Chem. Soc. submission planned.*
58. Isoe, J.; Mack, D. J.; Njardarson, J. T.; Miesfeld, R. L. “Biochemical inhibitors of COPI vesicle transport have differential metabolic effects on Diptera insects”, *November 2013 submission planned.*
59. Chogii, I.; Njardarson, J. T.; “Total Synthesis of Kainic Acid and Other Kainoids”, *December 2013 Angew. Chem. Int. Ed. submission planned.*
60. Guo, B.; Njardarson, J. T.; “Selective Nucleophilic Ring Opening of Vinyl Oxiranes”, *December 2013 Org. Lett. submission planned.*

PATENTS:

- 1.* Danishefsky, S. J.; Biswas, K.; Chappell, M. D.; Lin, H.; Njardarson, J. T.; Lee, C.; Rivkin, A.; Chou, T.-C. “Synthesis of Epothilones for Therapeutic use as Anticancer Agents” PCT Int. Appl. (2003), WO 2003022844. (*Postdoctoral work, MSKCC*).
- 2.* Danishefsky, S. J.; Gaul, C.; Njardarson, J. T.; “Migrastatin Analogs and Uses Thereof” US Patent (2012), 8,324,284. (*Postdoctoral work, MSKCC*).
- 3.* Huang, X.-Y.; Danishefsky, S. J.; Gaul, C.; Njardarson, J. T.; “Migrastatin Analog Compositions and Uses Thereof” US Patent (2012), 8,202,911 (*Postdoctoral work, MSKCC*).
- 4.* Danishefsky, S. J.; Gaul, C.; Njardarson, J. T., Moore, M. A. S.; Wu, K.; Dorn, D. C.; Mandal, M.; “Preparation of Migrastatin and its Analogs for use in Pharmaceutical Compositions for the Treatment of Cancer” PCT Int. Appl., (2006), WO 2006001967 (*Postdoctoral work, MSKCC*).
5. Njardarson, J. T.; Batory, L. A.; Bricachek, M.; Bauer, R. A.; Rogers, E. “Process For the Preparation of 2,5-Dihydrofuran Derivatives” US Patent (2013), 8,404,872. (*Independent Patent*).
6. Scheinberg, D.; McDewitt, M.; Antczak, C.; Chattopahyay, D.; May, R.; Njardarson, J.; Phillips M. R.; “Single Wall Carbon Nanotube Constructs For Targeting Tumors” PCT Int. Appl., (2007), WO 2007016466. (*With Professor D. Scheinberg*).

Media:

- 2006 – present Created, designed and launched the widely popular ***Top200 Drug Posters*** (the 2006, 2007, 2008, 2009, 2010 and soon the 2011 poster for top selling and generic drugs are available for free from our website as PDF files: <http://cbc.arizona.edu/njardarson/group/top-pharmaceuticals-poster>).
- 2011 – present Created, designed and launched (w/help and support from the Office and Instruction & Assessment at The University of Arizona) the educational website ***Chemistry By Design*** (<http://chemistrybydesign.oia.arizona.edu/>). This successful project has since also been launched as the first official UofA science APP for iphones, ipads and android devices. The site has been visited 450,000+ since its launch, used for graduate courses around the US and attracted participation and submission from students, professors and professionals from around the world.
- 2013 – present April 2nd 2013 we launched a new large poster project that we have been working on for the last two years. This project is called the “***Njardarson***

Group Disease Focused Posters” and it displays on individual posters (12 in total) ALL the structures of the small molecule compounds that have been approved for each disease category (Anti-Infectives, Cardiovascular, Cancer etc.).

2013 – present June 14th 2013 we launched a new class of posters that focus on the importance of certain elements and structures to pharmaceuticals. Our first posters in this new series display *Fluorinated Pharmaceuticals* and *Sulfur Containing Pharmaceuticals*.

Scholarly Presentations:

Submitted presentations are marked with § as vast majority of scholarly presentations are invited.

1. 6th Int. Chem. Symp., SALCQ 2004-2005, Tecnol. Monterrey, Mexico, Feb. 24-26th **2005**.
2. Memorial Sloan-Kettering Cancer Center, New York, June 21st **2005**.
3. Hobart William and William Smith College, New York, April 27th **2006**.
4. § 232nd ACS National Meeting, San Francisco, CA, September 10-14th **2006**, ORGN-954.
5. GlaxoSmithKline (GSK), Collegeville, Pennsylvania, March 28th **2007**.
6. Natural Products, Gordon Conference, New Hampshire, July 22-27th **2007**.
7. University of Rochester, New York, March 7th **2008**.
8. University of Colorado, Colorado March 17th **2008**.
9. AMRI, Albany, New York, March 14th **2008**.
10. Merck (Rahway), New Jersey, April 9th **2008**.
11. Abbott Laboratories, Chicago, Illinois, May 1st **2008**.
12. University of Chicago, Chicago, Illinois, May 2nd **2008**.
13. AMRI, Syracuse, New York, May 14th **2008**.
14. Heterocyclic Compounds, Gordon Conference, Rhode Island, June 15-20th **2008**.
15. NSF Workshop, New Hampshire, June 20-23, **2008**.
16. Eli Lilly, Indianapolis, Indiana, July 8th **2008**.
17. Ohio State University, Columbus, Ohio, October 30th **2008**.

18. UC Irvine, Irvine, California, December 3rd **2008**.
19. UCLA, Los Angeles, California, December 4th **2008**.
20. California Institute of Technology, Pasadena, California, December 5th **2008**.
21. UC Santa Barbara, Santa Barbara, California, December 8th **2008**.
22. Rutgers, The State University of New Jersey, Piscataway, New Jersey, December 15th **2008**.
23. Cambridge University, Cambridge, UK, January 12th **2009**.
24. University of Bristol, Bristol, UK, January 14th **2009**.
25. Oxford University, Oxford, UK, January 15th **2009**.
26. University of Cardiff, Cardiff, UK, January 19th **2009**.
27. University of Nottingham, Nottingham, UK, January 21st **2009**.
28. Astra Zeneca, Loughborough, UK, January 22nd **2009**.
29. Trinity College, Dublin, Ireland, January 26th **2009**.
30. Texas A&M, College Station, Texas, February 5th **2009**.
31. University of Texas Austin, Austin, Texas, February 6th **2009**.
32. Emory University, Atlanta, Georgia, February 11th **2009**.
33. University of Illinois, Urbana-Champaign, Illinois, February 16th **2009**.
34. Duke, Durham, North Carolina, February 19th **2009**.
35. UNC Chapel Hill, Chapel Hill, North Carolina, February 20th **2009**.
36. Penn State University, University Park, Pennsylvania, February 23rd **2009**.
37. Schering-Plough, Kenilworth, New Jersey, February 26th **2009**.
38. UC Berkeley, Berkeley, California, March 10th **2009**.
39. Stanford University, Palo Alto, California, March 11th **2009**.
40. Yale University, New Haven, Connecticut, March 18th **2009**.
41. University of Vermont, Burlington, Vermont, April 2nd **2009**.
42. University of Wisconsin Madison, Madison, Illinois, April 7th **2009**.

43. University of Michigan, Ann Arbor, Michigan, April 15th **2009**.
44. Oregon State University, Corvallis, Oregon, April 20th **2009**.
45. Columbia University, New York, New York, April 23rd **2009**.
46. University of Pennsylvania, Philadelphia, Pennsylvania, April 27th **2009**.
47. University of Illinois at Chicago, Chicago, Illinois, May 1st **2009**.
48. Northwestern, Northwestern, Illinois, May 4th **2009**.
49. University of Pittsburgh, Pittsburgh, Pennsylvania, May 7th **2009**.
50. Symposium, University of Buffalo, Buffalo, New York, May 21-22nd **2009**.
(*Student invited presentation*)
51. University of Iceland, Reykjavik, Iceland, June 5th **2009**.
52. § 238th ACS National meeting, Washington DC, August 16-20th **2009**.
53. CUNY Hunter College, New York, NY, September 25th **2009**.
54. Memorial Sloan Kettering Cancer Center, New York, NY, October 20th **2009**.
55. University of Arizona, Tucson, Arizona, February 25th **2010**.
56. University of Utah, Salt Lake City, Utah, March 4th **2010**.
57. Brigham Young University, Provo, Utah, March 5th **2010**.
58. Washington University, St. Louis, Missouri, March 25th **2010**.
59. The Scripps Research Institute, La Jolla, California, May 7th **2010**.
60. New Mexico State University, Las Cruces, New Mexico, October 21st **2010**.
61. Wayne State University, Detroit, Michigan, October 27th **2010**.
62. University of Houston, Houston, Texas, November 9th **2010**.
63. University of New Mexico, Albuquerque, New Mexico, November 19th **2010**.
64. University of Toledo, Toledo, Ohio, December 1st **2010**.
65. § Pacificchem 2010, Honolulu, Hawaii, December 15th-20th **2010**.
66. Sanofi-Aventis, Tucson, Arizona, April 7th **2011**

67. University of Delaware, Newark, Delaware, October 28th **2011**
68. University of Arizona, Department of Pharmacy, March 1st **2012**
69. California State University Fullerton, Fullerton, California, March 8th **2012**
(*Student invited presentation*)
70. University of Kansas, Lawrence, Kansas, May 3rd **2012**
(*Student invited presentation*)
71. Medicinal Chemistry Symposium, Tucson, Arizona, May 20th **2012**
72. "Latest Trends in Organic Synthesis" Brock University, Canada, August 8-11th **2012**
73. Boehringer-Ingelheim, Ridgefield, Connecticut, January 29th **2013**.
74. UNC Charlotte, Charlotte, North Carolina, February 18th **2013**.
75. Southern Arizona ACS Section, Tucson, Arizona, March 20th **2013**.
76. Mobile Matters Symposium, Tucson, Arizona, March 29th **2013**.
77. Heterocyclic Compounds, Gordon Conference, Rhode Island, June 16-20th **2013**.
78. Natural Products, Gordon Conference, New Hampshire, July 28 – August 2nd **2013**.
79. UT San Antonio, San Antonio, Texas, September 27th **2013**.
80. UT Southwestern Medical Center, Dallas, Texas, November 12th **2013**.

POSTER PRESENTATIONS

1. 216 ACS National meeting, Boston, Massachusetts, August 23-27th, **1998**.
2. 224 ACS National meeting, Boston, Massachusetts, August 18-22nd, **2002**.
3. Natural Products, Gordon Conference, New Hampshire, July 24-29, **2005**.
4. Heterocyclic Compounds, Gordon Conference, Rhode Island, July 2-7 **2006** (2 posters).
5. North Jersey American Chemical Society Topical Group, September 20th **2006**.
6. Heterocyclic Compounds, Gordon Conference, Rhode Island, June 24-29, **2007**.
7. Organic Reactions and Processes, Gordon Conference, Rhode Island, July 15-20, **2007**.

8. Natural Products, Gordon Conference, New Hampshire, July 22-27, **2007**.
9. Heterocyclic Compounds, Gordon Conference, Rhode Island, June 15-20, **2008**.
10. Natural Products, Gordon Conference, New Hampshire, July 20-25, **2008**.
11. Heterocyclic Compounds, Gordon Conference, Rhode Island, June 28-July 3, **2009**.
12. Natural Products, Gordon Conference, New Hampshire, July 26-31, **2009**.
13. Pacifichem 2010, Honolulu, Hawaii, December 15th-20th **2010**.
14. Heterocyclic Compounds, Gordon Conference, Rhode Island, June 26-July 1, **2011**.
15. Natural Products, Gordon Conference, Rhode Island, July 24-29, **2011**.
16. 2012 National Medicinal Chemistry Symposium, Tucson, Arizona, May 20-23, **2012**.
17. Natural Products, Gordon Conference, New Hampshire, July 22-27, **2012**.
18. Stereochemistry, Gordon Conference, Rhode Island, July 9 – August 3, **2012**
19. Heterocyclic Compounds, Gordon Conference, Rhode Island, June 16-June 21, **2013**.
20. Natural Products, Gordon Conference, New Hampshire, July 28 – August 2, **2013**.