

Robert Michael Giuliano

Department of Chemistry
Villanova University
Villanova, PA 19085
(610) 519-5433

Home: 103 Valley Forge Terrace
Wayne, PA 19087
(610) 989-3839

Employment

Professor, Department of Chemistry, Villanova University	1996-
Associate Professor, Department of Chemistry, Villanova University	1988-1996
Assistant Professor, Department of Chemistry, Villanova University	1982-1988
Chair, Department of Chemistry, Villanova University	1994-2000
Adjunct Professor, Department of Chemistry, Temple University	2008-2009
Department of Medicinal Chemistry, Cephalon, Inc.	2000-01
Visiting Associate Professor of Chemistry (Research), Brown University	1990-1991

Education

Postdoctoral Research: University of Maryland, 1981-1982, Advisor: Dr. Bert Fraser-Reid
Research Area: Carbohydrate derivatives in the asymmetric synthesis of natural products

Ph.D., University of Virginia, 1981, Advisor: Dr. Francis A. Carey

Dissertation: *Synthetic Approaches to Sibiromycin*

Awards: Dean's Reserve Fellowship, 1978 and 1980
DuPont Fellowship, 1979

B.S., Chemistry, Pennsylvania State University, 1976, Advisor: Dr. Lawrence B. Hendry

Undergraduate Research: Isolation and characterization of insect pheromones

Memberships and Service in Professional Organizations

American Chemical Society, Organic and Carbohydrate Divisions

General Chair, Mid-Atlantic Regional Meeting of the American Chemical Society, 1996

Secretary, American Chemical Society, Carbohydrate Division, 1992-1994

Chair, Philadelphia Organic Chemists Club, 2006-2007

Sigma Xi

Awards and Appointments

1. 1992 Cyanamid Faculty Award
2. Regional Editor, *Journal of Carbohydrate Chemistry*, 1989-2012
3. Editorial Advisory Board, *Current Topics in Medicinal Chemistry*, 2004-
4. 2016 Villanova University Outstanding Faculty Mentor Award

Research Interests

Organic synthesis and carbohydrate chemistry. Synthesis of carbohydrate components of antibiotics and natural products. Cyclopropyl sugars and C-Glycosides. Functionalized graphite nanofibers.

Teaching Experience

Graduate Courses:	Organic Reactions and Synthesis Carbohydrate Chemistry Heteroatoms in Organic Synthesis Heterocyclic Chemistry
Undergraduate Courses:	Organic Chemistry Organic Chemistry Laboratory Organic Analysis Laboratory Structure and Spectroscopy
Industrial Teaching:	Refresher courses in organic chemistry taught to process chemists at SmithKline Chemicals

Research Grants Received

1. "Synthesis and Structural Characterization of Functionalized Graphite Nanofibers: Materials for Nanoscale Applications in Biology," Research Corporation Cottrell College Science Grant, 2007–2010.
2. "Vinyl Glycosides and Carbohydrate Vinyl Ethers: Synthesis and Applications," Petroleum Research Fund, Administered by the American Chemical Society, Type B Grant, 2001-2004.
3. "Synthesis of β -Linked Oligosaccharides of Branched-Chain Carbohydrates", Petroleum Research Fund, Administered by the American Chemical Society, Type AC Grant, 1991-1993
4. "Cycloaddition Reactions in Synthetic Carbohydrate Chemistry," Petroleum Research Fund, Administered by the American Chemical Society, Type SE (Symposium) Grant, 1990.
5. "Synthesis of Complex Carbohydrates," National Institutes of Health Academic Research Enhancement Award (NIH-AREA), 1986-1988.
6. "Glycosylation of Branched-Chain Carbohydrates. Synthesis of the Arugomycin Trisaccharide," The Greenwall Foundation of Research Corporation, 1986-1987.
7. "Synthesis of Complex Carbohydrates," Office of Research and Sponsored Projects, Villanova University, 1986.
8. "Synthesis of Branched-Chain Carbohydrates," Petroleum Research Fund, Administered by the American Chemical Society, Type G Grant, 1983-1985.
9. "Synthesis and Chemistry of Enol Lactones Derived from Carbohydrates," Office of Research and Sponsored Projects, Villanova University, 1983.

Grants and Support from Industry

1. Merck Research Laboratories Summer Undergraduate Research Fellowship, 2005.
2. Cephalon, Inc., donation of a High Performance Liquid Chromatograph, 2001.
3. Wyeth-Ayerst Research, unrestricted grant, 2000.
4. The R. W. Johnson Pharmaceutical Research Institute, unrestricted grant, 1993.
5. Canamid Faculty Award, 1992.
6. Wyeth-Ayerst Research, unrestricted grant, 1991.

Consulting

Cephalon, Inc., 2000-2001
Magainin Pharmaceuticals, 1993
Lemmon Company, 1992 - 1993

Other Professional Activities

- Chair, Philadelphia Organic Chemists' Club, 2006 – 2007 (www.pocclub.org)
- Symposium Chair, *Carbohydrates in the Development of Antibiotics*, National Meeting of the American Chemical Society, Philadelphia, PA, 2004
- Symposium Chair, *Intercollegiate Student Chemists' Convention (ISCC)*, Villanova University, 2004
- Symposium Chair, *Cycloaddition Reactions in Synthetic Carbohydrate Chemistry*, National Meeting of the American Chemical Society, Washington, D.C., 1990
- Member of the National Science Foundation Instrument and Laboratory Study Section, 1993 – 1994
- General Chair of the Mid-Atlantic Regional Meeting of the American Chemical Society, Villanova University, Villanova, PA, 1996
- Judge, ACS Younger Chemists' Committee Poster Session, Philadelphia, 2012, 2013

University and Departmental Committees

University Rank and Tenure Committee, 2005-2009

Mendel Medal of Science Committee, College of Liberal Arts and Sciences, 1994-

Committee on Sabbaticals and Reduced Loads, College of Liberal Arts and Sciences, 2001-

Curriculum Committee, Department of Chemistry, 2002-2014

Alumni Committee (Chair), Department of Chemistry, 2013-

Publications (undergraduate coauthors*, graduate student coauthors#)

1. A. C. Briegel,[#] A. K. Cummings,* G. R. Smith,[#] M. D. Doroski,* W. J. Boyko, N. A. Piro, W. S. Kassel, and R. M. Giuliano, "Synthesis of Lemonose Derivatives: Methyl 4-Amino-3-*O*, *N*-Carbonyl-2,4,6-Trideoxy-3-*C*-Methyl- α -L-lyxo-Pyranoside" *Carbohydrate Research*, 409 (2015) 63-68.
2. M. Rotella,[#] A. Briegel,[#] J. Hull,* A. Lagalante, and R. Giuliano, "Synthesis and Antibacterial Activity of Antibiotic-Functionalized Graphite Nanofibers," *Journal of Nanomaterials*, 2015, doi:10.1155/2015/204961.
3. P. P. Vagadia,[#] S. P. Brown,[#] D. L. Zubris, N. A. Piro, W. J. Boyko, W. S. Kassel, and R. M. Giuliano, "Stereoselective Synthesis of 7-Deoxy-1,2;3,4-Di-*O*-Isopropylidene-D-*glycero*- α -D-*galacto*-Heptopyranose," *Carbohydrate Chemistry: Proven Methods*, 3 (2015) 245-253.
4. C. Scholl,[#] T. Licisyn,[#] C. Cummings,* K. Hughes,[#] D. Johnson, W. Boyko, and R. Giuliano, "Synthesis of Cyclopropyl Glycosides and Their Use as Novel Glycosyl Donors," *Carbohydrate Research*, 356 (2012) 288-294.
5. A. R. Ferens,[#] R. D. Weinstein, R. Giuliano and J. A. Hull,* "Selective Decomposition of Isopropanol Using As-Prepared and Oxidized Graphite Nanofibers," *Carbon*, 50 (2012) 192-200.
6. T. Pellenbarg,[#] N. Dimentev,[#] R. Jean-Gilles,[#] C. Bessel, E. Borguet, N. Dollahon, and R.

- Giuliano, "Detecting and Quantifying Oxygen Functional Groups on Graphite Nanofibers by Fluorescence Labeling of Surface Species," *Carbon*, 48 (2010), 4256-4267.
7. V. Basava,[#] B. Flores,* M. Giovine,[#] T. Licisyn,[#] K. Walck,* W. Boyko, and R. M. Giuliano, "Addition Reactions of Benzenesulfinic Acid with Glycols and 1,2-Dibromosugars," *Journal of Carbohydrate Chemistry*, 27 (2008) 389-400.
 8. R. M. Giuliano, Ed., "New Directions in the Chemistry and Biology of Carbohydrates," *Current Topics in Medicinal Chemistry*, 8 (2008) 63-170.
 9. R. R. Wolff,[#] V. Basava,[#] R. M. Giuliano, W. J. Boyko, and J. H. Schauble, "Iodosulfonation of Alkenes with Benzenesulfinic Acid/N-Iodosuccinimide. Facile Preparation of α,β -Unsaturated Sulfones," *Canadian Journal of Chemistry*, 84 (2006) 667-675.
 10. R. M. Giuliano, Ed. "Carbohydrates in the Development of Antibiotics," *Journal of Carbohydrate Chemistry, Special Edition*, 24 (2005) 101-208.
 11. K. D. Hughes,[#] T.-L. Nguyen,[#] D. Dyckman,* D. Dulay,* W. J. Boyko, and R. M. Giuliano "Synthesis of Vinyl Glycosides and Carbohydrate Vinyl Ethers by the Gassman Reaction. A Hetero-Diels-Alder Approach to Deoxygenated Disaccharides," *Tetrahedron: Asymmetry*, 16 (2005), 273-282.
 12. R. M. Giuliano, "Silver Silicate," *Electronic Encyclopedia of Reagents for Organic Synthesis*, L. Paquette, Wiley Interscience, New York, 2004.
 13. R. M. Giuliano, "Tetramethylurea," *Electronic Encyclopedia of Reagents for Organic Synthesis*, L. Paquette, Wiley Interscience, New York, 2004.
 14. D. S. Micalizzi,* J. P. Dougherty,* L. A. Noecker, G. R. Smith,[#] and R. M. Giuliano, "Synthesis of the Polyketomycin Disaccharide," *Tetrahedron: Asymmetry*, 14 (2003), 3183-3188.
 15. M. L. Dulin,[#] L. A. Noecker, W. S. Kassel, and R. M. Giuliano, "An Unusual Course of Thioglycoside Activation with Bromine: Synthesis and Crystal Structure of 4-*O*-acetyl-2-bromo-2,3,6-trideoxy-3-*C*-methyl-3-trifluoroacetamido- α -L-altropyranosyl bromide," *Carbohydrate Research*, 338 (2003) 1121-1125.
 16. L. Noecker, R. M. Giuliano, M. Cooney,[#] W. Boyko, and W. W. Zajac, Jr. "Ozone/OXONE-Mediated Oxidations of Amino and *O*-Benzylhydroxylamino Sugars," *Journal of Carbohydrate Chemistry*, 21 (2002) 539-544.
 17. J. Edathil,* J. Nguyen,* K. Hughes,[#] W. J. Boyko, and R. M. Giuliano, R. M. "Synthesis of Vinyl α -D-Glucopyranosides from Mixed Acetal Glycosides," *Journal of Carbohydrate Chemistry*, 20 (2001) 81-95.

18. G. R. Smith,[#] F. J. Villani,[#] Jr., L. Failli,^{*} and R. M. Giuliano, "Synthesis of Phenyl 3,4-Di-*O*-benzyl-2,6-dideoxy-3-*C*-methyl-1-thio- α,β -*L*-xylo-hexopyranoside. A Glycosyl Donor for Axenose," *Tetrahedron Asymmetry*, 11 (2000) 139-149.
19. G. R. Smith[#] and R. M. Giuliano, "Synthesis of Methyl α -*L*-vancosaminide," *Carbohydrate Research*, 323 (2000) 208-212.
20. L. Noecker, F. Duarte,[#] S. A. Bolton,[#] W. G. McMahon, T. M. Diaz,^{*} and R. M. Giuliano, "Glycosylation of Branched Amino and Nitro Sugars. Part II. Synthesis of the Cororubicin Trisaccharide," *Journal of Organic Chemistry*, 64 (1999) 6275-6282.
21. G. R. Smith,[#] J. J. Finley IV,^{*} and R. M. Giuliano, "Synthesis of Methyl α -*L*- Callipeltoside," *Carbohydrate Research*, 308 (1998) 223-227.
22. L. Noecker, F. Duarte,[#] and R. M. Giuliano, "Synthetic Studies of the Cororubicin Oligosaccharide: Glycosylation of Branched Amino and Nitro Sugars," *Journal of Carbohydrate Chemistry*, 17 (1998) 39-48.
23. L. A. Noecker, J. A. Martino,[#] P. J. Foley,^{*} D. M. Rush,[#] and R. M. Giuliano, "Synthesis of Amicetose by Three Enantioselective Methods," *Tetrahedron Asymmetry*, 9 (1998) 203-212.
24. H. Ye,[#] L. Noecker, W. J. Boyko, R. M. Giuliano, G. P. A. Yap, and A. L. Rheingold, "Studies of the Synthesis of Rubranitrose and Crystal Structure of Methyl 2,3,6-Trideoxy-3-*C*-Methyl-3-Nitro- α -*D*-Ribo-Hexopyranoside," *Journal of Carbohydrate Chemistry*, 16 (1997) 373-383.
25. R. M. Giuliano, V. E. Manetta,[#] and G. R. Smith,[#] "Carbohydrate *N*-Phosphinyl Imine Derivatives: Synthesis and Conversion to Amino Sugars," *Carbohydrate Research*, 278 (1995) 345-350.
26. R. M. Giuliano, and F. J. Villani, Jr.,[#] "Stereoselectivity of Addition of Organometallic Reagents to Pentodialdo-1,4-furanoses: Synthesis of *L*-Axenose and *D*-Evermicose from a Common Intermediate," *Journal of Organic Chemistry*, 60 (1995) 202-211.
27. R. M. Giuliano and C. Bigos,[#] "Electrophilic Cyclization of Allylic 1,1-Dimethylisoureas with *N*-Iodosuccinimide and Phenylselenenyl Triflate," *Synthetic Communications*, 25 (1995) 1145-1153.
28. R. M. Giuliano, R. S. Davis,[#] and W. J. Boyko, "Synthesis of Glycosyl Azides by the Addition of Phenylselenenyl Azide to Glycals," *Journal of Carbohydrate Chemistry*, 13 (1994) 1135-1143.
29. W. J. Boyko, F. J. Duarte,[#] and R. M. Giuliano, "⁷⁷Se, ¹³C and ¹H NMR Spectra of Phenylselenenyl Azide and Chloride Addition Products of Methylenecyclohexane and Cyclohexene," *Magnetic Resonance in Chemistry*, 32 (1994) 259-262.

30. R.M. Giuliano, A. D. Jordan, Jr.,[#] A. D. Gauthier, and K. Hoogsteen, "Diastereofacial Selectivity of Diels-Alder Reactions of Carbohydrate-Derived Dienes and Their Carbocyclic Analogs," *Journal of Organic Chemistry*, 58 (1993) 4979-4988.
31. R.M. Giuliano and F. Duarte,[#] "The Addition of Nitrogen Functionality to Exocyclic Alkenes: A New Procedure for Azidoselenenylation," *SynLett*, 1992, 419-421.
32. R.M. Giuliano, T.T. Duong,[#] T.W. Deisenroth,[#] W.G. McMahon, and W.J. Boyko, "Electrophilic Cyclization and Thermal Rearrangement of Allylic N,N-Dimethylisoureas," *Synthesis*, 1991, 86-90.
33. R.M. Giuliano, J.H. Buzby,[#] N. Marcopulos,[#] and J.P. Springer, "Diels-Alder Reactions of Dieno-pyranosides. Anomeric vs. Allylic Stereoselection," *Journal of Organic Chemistry*, 55 (1990) 3555-3562.
34. R.M. Giuliano, R.F. Bryan, P. Hartley, S. Peckler, and M.K. Wood, "Structure of Methyl 6-Deoxy- α -D-idopyranoside," *Carbohydrate Research*, 191 (1989) 1-11.
35. R.M. Giuliano and S. Kasperowicz,[#] "Synthesis of Branched-Chain Carbohydrates: A Stereoselective Route to Sibirosamine, Kansosamine, and Vinelose from a Common Precursor," *Carbohydrate Research*, 183 (1988) 277-285.
36. R.M. Giuliano, S. Kasperowicz,[#] W. Boyko, and A. Rheingold, "X-Ray and N.M.R. Studies of Methyl α -L-Evalopyranoside: Reassignment of Anomeric Configuration for the Methanolysis Product of Methyl 6-Deoxy-3-C-Methyl- α -L-Mannofuranoside," *Carbohydrate Research*, 185 (1988) 61-67.
37. R.M. Giuliano and J.H. Buzby,[#] "Reductions of Methyl 2,3-Di-O-Benzyl-4-Deoxy- β -L-Threo-Hex-4-Enodialdopyranoside," *Journal of Carbohydrate Chemistry*, 6 (1987) 541-552.
38. R.M. Giuliano and T.W. Deisenroth,[#] "Synthesis of Methyl α -D-Kijanoside," *Journal of Carbohydrate Chemistry*, 6 (1987) 295-299 .
39. R.M. Giuliano and J.H. Buzby,[#] "Synthesis and Diels-Alder Reactions of Dienopyranosides," *Carbohydrate Research*, 158 (1986) C1-C4.
40. R.M. Giuliano and T.W. Deisenroth,[#] "Synthesis of Methyl α -L-Decilonitroside," *Carbohydrate Research*, 158 (1986) 249-252.
41. R.M. Giuliano and S. Kasperowicz,[#] "Synthesis of L-Nogalose," *Carbohydrate Research*, 55 (1986) 252-257.
42. R.M. Giuliano, T.W. Deisenroth,[#] and W.C. Frank, "Synthesis of Branched-Chain Carbohydrates. A Stereoselective Route to D-Rubranitrose," *Journal of Organic Chemistry*, 51 (1986) 2304-2307.

43. R.M. Giuliano, "Stereoselective Synthesis of L-Olivomycose," *Carbohydrate Research*, 131 (1984) 341-345.
44. K.M. Sun, R.M. Giuliano and B. Fraser-Reid, "Diacetone Glucose-Derived Dienes in Diels-Alder Reactions. Products and Transformations," *Journal of Organic Chemistry*, 50 (1985) 4774-4780.
45. B. Fraser-Reid, Z. Benko, R. M. Giuliano, K. M. Sun and N. Taylor, "Complete Stereoselectivity in the Diels-Alder Reaction of an Ester Derived from Diacetone Glucose," *Chemical Communications*, 1984, 1029-1030.
46. F. A. Carey and R. M. Giuliano, "Synthesis of 7,9-Di-O-methyl-11-oxosibromycinone," *Journal of Organic Chemistry*, 46 (1981) 1366-1371.
47. D. M. Hindenlang, J.R. McLaughlin, R.M. Giuliano and L.B. Hendry, "A Sex Pheromone in the Potato Tuberworm Moth (*Phthorimaea Operculella*): Biological Assay and Preliminary Chemical Investigation," *Journal of Chemical Ecology*, 1 (1975) 465-473.

Textbook

F. A. Carey and R.M. Giuliano, *Organic Chemistry*, 10th Edition, 2017, McGraw-Hill Higher Education, New York, NY.

F. A. Carey and R.M. Giuliano, *Organic Chemistry*, 9th Edition, 2014, McGraw-Hill Higher Education, New York, NY.

F. A. Carey and R.M. Giuliano, *Organic Chemistry*, 8th Edition, 2011, McGraw-Hill Higher Education, New York, NY.

Book Review

R.M. Giuliano, Rev. of "Carbohydrate Chemistry. Volume 16. Part I. A Specialist Periodical Report." Senior Reporter: N.R. Williams (Birkbeck College, University of London). Reporters: B.E. Davison, R.J. Ferrier, R.H. Furneaux and R. Kahn. The Royal Society of Chemistry, London. *Journal of the American Chemical Society*, 107 (1985) 6429.

Proceedings

D. Jordan, Jr., A. D. Gauthier, and R. M. Giuliano, "Diels-Alder Reactions of Mono-substituted Dienopyranosides and their Carbocyclic Analogs: The Effects of Allylic and Remote Substituents on Facial Selectivity," *Proceedings: 20th Annual National Conference of Black Chemists and Chemical Engineers* (NOBCCHE), April 12-16, 1993, Indianapolis, 21-36.

Book Chapters/Review Articles

1. R.M. Giuliano, "Synthesis of Pyranopyrans from Carbohydrates," *Current Organic Chemistry, Special Issue*, S. Jarosz, Ed. 2014, 18, 1686-1700.
2. P.A. Wade and R.M. Giuliano, "The Role of the Nitro Group in Carbohydrate Chemistry," In: *Recent Developments in the Synthesis and Chemistry of Nitro Compounds*, H. Feuer and H.T. Nielsen, Ed., VCH Publishers, Inc., 1990, 137-266.
3. R. M. Giuliano, "Cycloaddition Reactions in Carbohydrate Chemistry: An Overview," In: *Cycloaddition Reactions in Carbohydrate Chemistry*, Symposium Series Volume 494, R. M. Giuliano Ed., American Chemical Society, 1992, 1-23.

Papers Presented at Meetings and Invited Lectures

(The presenting author(s) is (are) underlined for papers given at meetings.)

1. H. Curran and R. Giuliano, "Synthesis of a Cyclopropyl Glycoside Donor for the Lipid A Disaccharide," Undergraduate Research Poster Day, Villanova University, September 23, 2015.
2. J. Grecco and R. Giuliano, "Synthesis of 9-Desmethyl(-)-Diplopyrone," Undergraduate Research Poster Day, Villanova University, September 23, 2015.
3. R. M. Giuliano, "Recent Progress in the Synthesis of Carbohydrate Components of Antibiotics, Functionalized Graphite Nanofibers, and Fungal Toxins, Wilkes University, Department of Pharmaceutical Sciences, September 16, 2015.
4. M. Rotella, A. Briegel, J. Hull, A. Lagalante, and R. Giuliano, "Synthesis and Antibacterial Activity of Antibiotic-Functionalized Graphite Nanofibers," 249th National Meeting of the American Chemical Society, Denver, CO, March 22-26, 2015.
5. M. Rotella, A. Briegel, and R. M. Giuliano "Synthesis and Characterization of Antibiotic-Functionalized Graphite Nanofibers," Sigma Xi Student Research Poster Symposium, Villanova University April 25, 2014.
6. P. Vagadia and R. M. Giuliano "Total Synthesis of (-)-Diplopyrone" Sigma Xi Student Research Poster Symposium, Villanova University, April 25, 2014.
7. M. Rotella, A. Briegel, and R. M. Giuliano "Synthesis and Characterization of Antibiotic-Functionalized Graphite Nanofibers," Philadelphia ACS Fourteenth Annual Student Poster Session, University of the Sciences, Philadelphia, March 24, 2014.
8. M. Rotella, A. Briegel, and R. M. Giuliano "Synthesis and Characterization of Antibiotic-Functionalized Graphite Nanofibers," Oliver G. Ludwig Alumni Symposium, Villanova University, March 14, 2014.

9. P. Vagadia and R. M. Giuliano “Synthesis of (-)-Diplopyrone” Oliver G. Ludwig Alumni Symposium, Villanova University, March 14, 2014.
10. M. Rotella and R. M. Giuliano, “Synthesis of Functionalized Graphite Nanofibers,” Philadelphia ACS Thirteenth Annual Student Poster Session, Drexel University, February 21, 2013.
11. C. Zhang and R. Giuliano, “Synthesis of a Glycosyl Donor for the Lipid A Disaccharide,” Sigma Xi Student Research Poster Symposium, Villanova University, April 25, 2014.
12. M. Rotella and R. M. Giuliano, “Synthesis of Functionalized Graphite Nanofibers,” Sigma Xi Student Research Poster Symposium, Villanova University, April 25, 2014.
13. C. Zhang and R. Giuliano, “Synthesis of a Glycosyl Donor for the Lipid A Disaccharide,” 17th Biennial Philadelphia Organic Chemists’ Club Day, University of Pennsylvania, April 18, 2013.
14. R. M. Giuliano, T. Pellenbarg, J. A. Hull, and E. Borguet, “Synthesis and Characterization of Functionalized Graphite Nanofibers, 244th National Meeting of the American Chemical Society, Philadelphia, PA, August 19-23, 2012.
15. C. Scholl, T. Licisyn, C. Cummings, K. Hughes, D. Johnson, W. Boyko, and R. Giuliano, “Synthesis of Cyclopropyl Glycosides and Their Use as Novel Glycosyl Donors,” 244th National Meeting of the American Chemical Society, Philadelphia, PA, August 19-23, 2012.
16. R. M. Giuliano, T. Pellenbarg, J. A. Hull, and E. Borguet, “Synthesis and Characterization of Functionalized Graphite Nanofibers, 43rd Middle Atlantic Regional Meeting of the American Chemical Society, University of Maryland, Baltimore County, Baltimore, MD, May 31 – June 2, 2012.
17. M. Rotella, J. A. Hull, and R. Giuliano, “Synthesis of Functionalized Graphite Nanofibers, Villanova University Undergraduate Research Poster Session, September 19, 2012.
18. C. Scholl and R. Giuliano, “Synthesis and Coupling Reactions of Cyclopropyl Glycosides,” Philadelphia ACS Twelfth Annual Student Poster Session, Temple University, February 23, 2012.
19. C. Zhang and R. Giuliano, “Synthesis of a Glycosyl Donor for the Lipid A Disaccharide,” Philadelphia ACS Twelfth Annual Student Poster Session, Temple University, February 23, 2012.
20. J. A. Hull, H. J. Yoo, and R. M. Giuliano, “Synthesis and Characterization of Functionalized Graphite Nanofibers, Philadelphia ACS Twelfth Annual Student Poster Session, Temple University February 23, 2012.
21. C. Zhang and R. Giuliano, “Synthesis of a Glycosyl Donor for the Lipid A Disaccharide,” Villanova University Undergraduate Research Poster Session, September 20, 2011.

22. C. Scholl and R. M. Giuliano, “Synthesis and Coupling Reactions of Cyclopropyl Glycosides,” 16th European Carbohydrate Symposium, Sorrento, Italy, July 3-7, 2011.
23. J. A. Hull, H. J. Yoo, and R. M. Giuliano, “Synthesis and Characterization of Carbohydrate Functionalized Graphite Nanofibers,” 16th European Carbohydrate Symposium, July 3-7, Sorrento, Italy 2011. Sorrento, Italy.
24. C. Scholl and R. Giuliano, “Synthesis and Coupling Reactions of Cyclopropyl Glycosides,” 16th Bi Philadelphia Organic Chemists’ Club Day, University of Pennsylvania, April 28, 2011,
25. J. A. Hull, H. J. Yoo, and R. M. Giuliano, “Synthesis and Characterization of Functionalized Graphite Nanofibers,” Philadelphia ACS Eleventh Annual Student Poster Session, Temple University, February 10, 2011.
26. C. Scholl and R. Giuliano, “Synthesis and Coupling Reactions of Cyclopropyl Glycosides,” Philadelphia ACS Eleventh Annual Student Poster Session, Temple University, February 10, 2011.
27. T. Pellenbarg, J. A. Hull, A. Tuladhar, H. Yoo, E. Assenmacher, and R. M. Giuliano, “Synthesis and Characterization of Functionalized Graphite Nanofibers, Nanofibers,” 240th National Meeting of the American Chemical Society, Boston, MA, August 22 – 26, 2010.
28. T. Pellenbarg and R. M. Giuliano, “Synthesis and Characterization of Functionalized Graphite Nanofibers,” 17th Biennial Philadelphia Organic Chemists’ Day, University of Pennsylvania May 14, 2009.
29. T. Pellenbarg, R. M. Giuliano, V. Colón, R. Jean-Gilles, and C. A. Bessel, “Synthesis of Functionalized Graphite Nanofibers, Villanova University Undergraduate Research Poster Session, September 30, 2008.
30. K. Walck, R. M. Giuliano, B. Flores, T. Licisyn, and W. J. Boyko, “Synthesis of Carbohydrate Sulfones and Sulfinates Esters,” 236th National Meeting of the American Chemical Society, University of Pennsylvania, Philadelphia, PA, August 17 – 21, 2008.
31. T. Pellenbarg, R. M. Giuliano, V. Colón, R. Jean-Gilles, and C. A. Bessel, “Synthesis of Functionalized Graphite Nanofibers, 236th National Meeting of the American Chemical Society, Philadelphia, PA, August 17 – 21, 2008.
32. K. Walck, R. M. Giuliano, B. Flores, T. Licisyn, and W. J. Boyko, “Synthesis of Carbohydrate Sulfones and Sulfinates Esters,” Philadelphia ACS Eighth Annual Graduate and Undergraduate Poster Session, Temple University, January 24, 2008.
33. V. Colón, R. M. Giuliano, R. Jean-Gilles, and C. A. Bessel, “Synthesis of Functionalized Graphite Nanofibers, Philadelphia ACS Eighth Annual Graduate and Undergraduate Poster Session, Temple University, January 24, 2008..

34. T. Pellenbarg, R. M. Giuliano, V. Colón, R. Jean-Gilles, and C. A. Bessel, "Synthesis of Functionalized Graphite Nanofibers, Villanova University Undergraduate Research Poster Session, September 30, 2008.
35. V. Colón, R. M. Giuliano, R. Jean-Gilles, and C. A. Bessel, "Synthesis of Functionalized Graphite Nanofibers, Villanova University Undergraduate Research Poster Session, September 25, 2007.
36. K. Walck, R. M. Giuliano, B. Flores, T. Licisyn, and W. J. Boyko, "Synthesis of Carbohydrate Sulfones and Sulfinic Esters," Villanova University Undergraduate Research Poster Session, September 25, 2007.
37. M. Doroski and R. M. Giuliano, "Model Studies for the Synthesis of the Carbohydrate Component of Lemnomycin," 16th Biennial Philadelphia Organic Chemists' Club Day, University of Pennsylvania, April 19, 2007.
38. B. Flores and R. Giuliano, "Addition of Benzenesulfinic Acid to Glycols: Synthesis of C-Glycoside Precursors," 16th Biennial Philadelphia Organic Chemists' Club Day, University of Pennsylvania, April 19, 2007.
39. B. Flores and R. Giuliano, "Addition of Benzenesulfinic Acid to Glycols: Synthesis of C-Glycoside Precursors," Villanova University Undergraduate Research Poster Session, October 3, 2006.
40. M. Doroski, A. Kline, and R. M. Giuliano, "Model Studies for the Synthesis of the Carbohydrate Component of the Antibiotic Lemnomycin," Merck Research Laboratories Summer Undergraduate Research Symposium, West Point, PA, August 2, 2005.
41. R. M. Giuliano, K. Hughes, C. Cummings, and T. L. Nguyen, ", "Vinyl Glycosides and Carbohydrate Vinyl Ethers: Synthesis and Applications," Mid-Atlantic Regional Meeting of the American Chemical Society, Rutgers, The State University of New Jersey, May 22-25, 2005
42. T. L. Nguyen, K. Hughes, and R. M. Giuliano, "A Hetero-Diels-Alder Approach to Deoxygenated Disaccharides," Philadelphia Organic Chemists' Club, University of Pennsylvania, April 21, 2005.
43. V. Basava, R. Wolff, J. H. Schauble, and R.M. Giuliano, "Halophenylsulfonation of Allylic Alcohols, Vinyl Ethers, and Glycols, Philadelphia Organic Chemists' Club, University of Pennsylvania, April 21, 2005.
44. R. M. Giuliano, K. Hughes, C. Cummings, and T. Nguyen, "Vinyl Glycosides and Carbohydrate Vinyl Ethers: Synthesis and Applications," International Carbohydrate Symposium, Glasgow, UK, July 23 - 27, 2004.
45. C. Cummings and R.M. Giuliano, "Vinyl Glycosides and Carbohydrate Vinyl Ethers: Synthesis and Applications," the 68th Intercollegiate Student Chemists' Convention, at Hood College, April 24, 2004. *Chris won 2nd place in the Organic Chemistry Division.*

46. A. Kline and R. B. Giuliano, "The Synthesis of 4-Amino Branched-Chain Carbohydrate Components of Antibiotics," the 68th Intercollegiate Student Chemists' Convention, at Hood College, April 24, 2004. *Adrienne won first place in the Organic Chemistry Division.*
47. D. Micalizzi and R. M. Giuliano, "Synthetic Studies of the Polyketomycin Disaccharide," 67th Intercollegiate Student Chemists' Convention, Villanova University, Villanova, PA April 5, 2003. *Doug won 1st Place in the Organic Chemistry Division of the competition.*
48. V. Valentin and R. M. Giuliano, "Synthesis of Glycal Derivatives of Trideoxy Sugars," 67th Intercollegiate Student Chemists' Convention, Villanova University, Villanova, PA April 5, 2003. *Valerie won 1st Place in the Organic Chemistry Division of the competition.*
49. C. Cummings and R. M. Giuliano, "Synthesis of Vinyl Glycosides and their Cyclopropyl Derivatives," 67th Intercollegiate Student Chemists' Convention, Villanova University, Villanova, PA April 5, 2003.
50. A. Kline and R. M. Giuliano, "Synthesis of 4-Amino Branched-Chain Carbohydrate Components of Antibiotics," Chemistry Department Research Presentation (for Local Industrial Sponsors), Villanova University, October 9, 2003.
51. R. M. Giuliano, "Synthesis of Carbohydrate Components of Antibiotics," Drexel University, Phila., PA, May 14, 2003.
52. R. M. Giuliano, "Synthesis of Vinyl Glycosides and Carbohydrate Vinyl Ethers by the Gassman Method," 23rd Gordon Research Conference on Carbohydrates, Tilton, NH June 22-26, 2003.
53. R. M. Giuliano, K. Hughes, and J. Nunez, "Vinyl Glycosides and Carbohydrate Vinyl Ethers: Synthesis and Applications," 224th National Meeting of the American Chemical Society, Boston, MA, Aug. 18-22, 2002.
54. R. M. Giuliano, M. Dulin, L. Noecker, S. Kassel, "Glycosylation of Branched Amino Sugars Based on Novel Intermediates Derived from Thioglycosides," 224th National Meeting of the American Chemical Society, Boston, MA, Aug. 18-22, 2002.
55. R. M. Giuliano, W.W. Zajac, M. Cooney, L. Noecker, "Oxidation of Amino and Hydroxylamino Sugars with DMDO and with the Mixed Oxidant System Ozone/OXONE," 224th National Meeting of the American Chemical Society, Boston, MA, Aug. 18-22, 2002.
56. T.L. Nguyen, D. Dyckman, and R. M. Giuliano, "A Hetero-Diels Alder Approach to Deoxy Disaccharides," Poster Session, Howard Hughes Medical Institute Summer Research Program, Villanova University, July 21, 2002.
57. R. Brewster, and R. M. Giuliano, "Synthesis of Vinyl Glycosides Containing Ester Protecting Groups," Poster Session, Howard Hughes Medical Institute Summer Research Program, Villanova University, July 21, 2002.

58. V. Valentin and R. M. Giuliano, "Glycal Derivatives of Trideoxy Sugars," Chemistry Department Research Presentation (for Local Industrial Sponsors), Villanova University, October 10, 2002.
59. C. Cummings and R. M. Giuliano, "Synthesis and Reactions of Cyclopropyl Glycosides," Chemistry Department Research Presentation (for Local Industrial Sponsors), Villanova University, October 10, 2002.
60. J. Nunez, and R. M. Giuliano, "Vinyl Glycosides: Synthesis and Applications in Carbohydrate Chemistry," Intercollegiate Student Chemists' Convention, Lebanon Valley College, April 7, 2002.
61. D. Dyckman, R. M. Giuliano, "A Hetero-Diels Alder Approach to Deoxy Disaccharides," Intercollegiate Student Chemists' Convention, Lebanon Valley College, April 7, 2002.
62. D. Micalizzi and R.M. Giuliano, "Synthetic Studies of the Polyketomycin Disaccharide," Intercollegiate Student Chemists' Convention, Lebanon Valley College, April 7, 2002.
63. M. Dulin, L. Noecker, W. S. Kassel, and R. M. Giuliano, "Glycosylation of Branched Amino Sugars Based on Novel Intermediates Derived from Thioglycosides," ACS Mid-Atlantic Regional Meeting, Towson University, Towson, MD, May 30 - June 1, 2001.
64. M. Dulin, L. Noecker, W. S. Kassel, and R. M. Giuliano, "Glycosylation of Branched Amino Sugars Based on Novel Intermediates Derived from Thioglycosides," ACS Mid-Atlantic Regional Meeting, Towson University, Towson, MD, May 30 - June 1, 2001.
65. R. M. Giuliano, K. D. Hughes, and W. J. Boyko, "Synthetic Approaches to Deoxy Sugar Containing Disaccharides Using Vinyl Ethers and Diels-Alder Methodology," ACS Mid-Atlantic Regional Meeting, Towson University, Towson, MD, May 30 - June 1, 2001.
66. J. D. Nguyen, J. Edathil, W. J. Boyko and R. M. Giuliano, "Synthesis of Vinyl Glycosides from Glycosyl Acetals," Chemistry Department Research Presentation (for Local Industrial Sponsors), Villanova University, October 2000.
67. D. Dyckman and R. M. Giuliano, "Use of Methyl Cerium Alkylation in the Synthesis of Methyl-Branched Amino Sugar Derivatives," Chemistry Department Research Presentation (for Local Industrial Sponsors), Villanova University, October 2000.
68. D. Micalizzi, J. P. Dougherty, and R. M. Giuliano, "Synthetic Studies of the Polyketomycin Disaccharide," Chemistry Department Research Presentation (for Local Industrial Sponsors), Villanova University, October, 2000.
69. T. D. Nguyen, J. Edathil, W. J. Boyko and R. M. Giuliano, "Synthesis of Vinyl α -D-Glycosides from Glycosyl Acetals," 20th International Carbohydrate Symposium, Hamburg, Germany; Aug 27-Sept 1, 2000.

70. J. D. Nguyen, J. Edathil, W. J. Boyko and R. M. Giuliano, "Synthesis of Vinyl Glycosides from Glycosyl Acetals," Poster Session, Howard Hughes Medical Institute Summer Research Program, Villanova University, August 2, 2000.
71. J. D. Nguyen, J. Edathil, W. J. Boyko and R. M. Giuliano, "Synthesis of Vinyl Glycosides from Glycosyl Acetals," Chemistry Department Research Presentation (for Local Industrial Sponsors), Villanova University, October, 2000.
72. D. Dyckman and R. M. Giuliano, "Use of Methyl Cerium Alkylation in the Synthesis of Methyl-Branched Amino Sugar Derivatives," Poster Session, Summer Research Program, Villanova University, August 2, 2000.
73. D. S. Micalizzi, J. P. Dougherty, and R. M. Giuliano, "Synthetic Studies of the Polyketomycin Disaccharide," Poster Session, Howard Hughes Medical Institute Summer Research Program, Villanova University, August 2, 2000.
74. M. Hensel, M. Cichowicz, and R. M. Giuliano, "An Approach to the Synthesis of Callipeltoside A from Carbohydrates," Sigma Xi Poster Session, Villanova University, April 7, 2000.
75. J. Edathil and R. M. Giuliano, "Mercury-Free Synthesis of Vinyl α -D-Glucopyranosides," 14th National Conference on Undergraduate Research, University of Montana, Missoula, MT, April 27-29, 2000.
76. J. P. Dougherty and R. M. Giuliano, "Synthesis of Glycosyl Donors for Amicetose," 14th National Conference on Undergraduate Research, University of Montana, Missoula, MT, April 27-29, 2000.
77. L. Noecker, R. Giuliano, M. Cooney, and W. Zajac, Jr., "Oxidation of Amino and *O*-Benzylhydroxylamino Sugars with DMDO," Gordon Research Conference on Carbohydrates, Tilton School, Tilton, NH, June 20 - 25, 1999.
78. J. P. Dougherty and R. M. Giuliano, "Synthesis of Glycosyl Donors for Amicetose," 12th Biennial Philadelphia Organic Chemists' Club Day, University of Pennsylvania, May 27, 1999.
79. L. Noecker, F. Duarte, S. A. Bolton, W. G. McMahon, M. T. Diaz, and R. M. Giuliano, "Synthesis of the Cororubicin Trisaccharide," ACS Mid-Atlantic Regional Meeting, Farleigh Dickenson University, May 17, 1999.
80. J. P. Dougherty and R. M. Giuliano, "An Approach to the Synthesis of Glycosyl Donors for Amicetose," Sigma Xi Poster Session, Villanova University, April 23, 1999.
81. J. P. Dougherty and R. M. Giuliano, "An Approach to the Synthesis of Glycosyl Donors for Amicetose," Intercollegiate Student Chemists' Convention, Gettysburg College, April 10, 1999.
82. L. Noecker, F. Duarte, and R. M. Giuliano, "Synthesis of the Cororubicin

- Trisaccharide,” The 19th International Carbohydrate Symposium, University of California at San Diego, San Diego, CA, August 9 - 14 1998.
83. J. A. Martino, III, L. A. Noecker, P. J. Foley, and R. M. Giuliano, “Lipase-Catalyzed Resolutions, Syntheses, and Analysis of Amicetose Derivatives,” Sigma Xi Poster Session, Villanova University, April 3, 1998.
 84. L. Noecker, F. Duarte, R. M. Giuliano, “Synthetic Studies of the Cororubicin Oligosaccharide: Glycosylation of Branched-Chain Amino and Nitro Sugars,” Sigma Xi Poster Session, Villanova University, April 3, 1998.
 85. R. Smith, J. J. Finley IV, and R. M. Giuliano, “Synthesis of Methyl α -L-Callipeltoside,” Sigma Xi Poster Session, Villanova University, April 3, 1998.
 86. L. Noecker, F. Duarte, and R. M. Giuliano, “Synthetic Studies of the Cororubicin Oligosaccharide,” Gordon Research Conference on Carbohydrates, Tilton School, Tilton, NH, June 22 - 27, 1997.
 87. P. J. Foley and R. M. Giuliano, “The Asymmetric Synthesis of D-Amicetose via Enzyme-Catalyzed Pathways,” Intercollegiate Student Chemists’ Convention, University of Delaware, Newark, DE, April 26, 1997. *Paul Foley (B.S. 1998) won first prize for this paper in the Organic Chemistry Division.*
 88. R. M. Giuliano, “Synthetic Studies of the Cororubicin Oligosaccharide,” University of Connecticut, Storrs, CT, March 3, 1997.
 89. R. M. Giuliano, F. Duarte, L. Noecker, and F. J. Villani, Jr., “Synthetic Studies of Carbohydrates of the Axenomycin and Arugomycin Antibiotics,” ACS Mid-Atlantic Regional Meeting, Villanova University, May 22 - 24, 1996.
 90. D. M. Rush, R. M. Giuliano, and F. J. Villani, Jr., “Synthetic Studies of Amicetose,” ACS Mid-Atlantic Regional Meeting, Villanova University, May 22 - 24, 1996.
 91. D. M. Rush, F. J. Villani, and R. M. Giuliano, “Synthesis of Amictose,” Gordon Research Conference on Carbohydrates, Tilton School, Tilton, NH, June 25 - 30, 1995.
 92. L. Noecker, F. Duarte, and R. M. Giuliano, “Synthetic Studies of the Arugomycin Trisaccharide,” Janssen Research Foundation, Spring House, PA, February 23, 1995.
 93. R. M. Giuliano, “Synthesis of Carbohydrate Components of the Arugomycin and Axenomycin Antibiotics,” Drexel University, November 9, 1994.
 94. R. M. Giuliano, “Synthetic Studies of Carbohydrates of the Arugomycin and Axenomycin Antibiotics,” Temple University, April 5, 1994.
 95. R. M. Giuliano and F. J. Villani, Jr., “Synthesis of Carbohydrates of Axenomycin,” The 17th International Carbohydrate Symposium, Ottawa, Canada, July 17 - 22, 1994.

96. L. Noecker, F. Duarte, F. J. Villani, Jr. and R. M. Giuliano, "Synthetic Studies of the Arugomycin and Axenomycin Antibiotics," The 17th International Carbohydrate Symposium, Ottawa, Canada, July 17 - 22, 1994.
97. R. M. Giuliano and R. S. Davis, "Applications of the Azidoselenylation Reaction in Synthesis," ACS Mid-Atlantic Regional Meeting, Hofstra University, June 2 - 4, 1993.
98. Duarte and R. M. Giuliano, "A New Procedure for the Azidoselenylation of Exocyclic Alkenes," National Meeting of the American Chemical Society, Washington, D.C. August 23 - 28, 1992.
99. F. J. Villani, Jr. and R. M. Giuliano, "Synthesis of Branched-Chain Carbohydrates: A Furanoside-Based Approach to Axenose," National Meeting of the American Chemical Society, Washington, D.C., August 23 - 28, 1992.
100. A. Jordan and R. M. Giuliano, "Diels-Alder Reactions of Mono-Substituted Carbohydrate Dienes and Their Carbocyclic Analogs," National Meeting of the American Chemical Society, Washington, D.C., August 23 - 28, 1992.
101. R. M. Giuliano, "Excursions in Synthetic Carbohydrate Chemistry" Studies of Antibiotic Sugars and the Diels-Alder Reaction," Millersville University, November 2, 1992.
102. R. M. Giuliano, "Synthesis of Branched-Chain Sugars," Brown University, September 18, 1990.
103. R. M. Giuliano, "Synthesis of Branched-Chain Sugars," University of Delaware, February 21, 1990.
104. R. M. Giuliano, "Synthesis of Nitro Sugars," Bryn Mawr College, February 8, 1990.
105. R. M. Giuliano, "Synthesis of Nitro Sugars," Virginia Commonwealth University, November 16, 1989.
106. R. M. Giuliano, "Synthesis of Nogalose, Vinelose, Sibirosamine, and Kansosamine from a Common Precursor," National Meeting of the American Chemical Society, Dallas, TX, March 1989. the Borguet laboratory.
107. R. M. Giuliano, "Synthesis of Branched-Chain Carbohydrates," Lehigh University, November 16, 1988.
108. R. M. Giuliano, "Synthesis of Nogalose, Sibirosamine, and Related Branched-Chain Carbohydrates," Rutgers University, July 19, 1988.
109. R. M. Giuliano, "Synthesis and Diels-Alder Reactions of Dieno-Pyranosides," National Meeting of the American Chemical Society, 3rd Chemical Congress of the North American Continent, Toronto, Canada, June 5-10, 1988.

110. R. M. Giuliano, W. C. McMahon and T.W. Deisenroth, "A Synthetic Approach to the Arugomycin Trisaccharide," National Meeting of the American Chemical Society, 3rd Chemical Congress of the North American Continent, Toronto, Canada, June 5-10, 1988.
111. W. C. McMahon and R. M. Giuliano, "Stereoselective Synthesis of 2,6-Dideoxy Sugar Derivatives. Studies Directed Toward the Synthesis of the Arugomycin Trisaccharide," Philadelphia Organic Chemists Club Meeting, Drexel University, Phila., PA, June 1987.
112. J. H. Buzby and R. M. Giuliano, "Synthesis and Diels-Alder Reactions of Dienopyranosides. Reductions of Enodialdopyranosides," Philadelphia Organic Chemists Club Meeting, Drexel University, Phila., PA, June 1987.
113. T. W. Deisenroth and R. M. Giuliano, "Synthesis of Branched-Chain Nitro Sugars," Philadelphia Organic Chemists Club Meeting, Drexel University, Phila., PA, June 1987.
114. R. M. Giuliano, "Synthesis of Branched-Chain Carbohydrates," State University of New York at Binghamton, November 5, 1986.
115. R. M. Giuliano, "Synthesis of Branched-Chain Carbohydrates," Brown University, October 14, 1986.
116. R. M. Giuliano and S. Kasperowicz, "Synthesis of L-Nogalose," ACS Mid-Atlantic Regional Meeting, Baltimore, MD, September 2 - 4, 1986.
117. R. M. Giuliano and S. Kasperowicz, "Synthesis of L-Nogalose," 13th International Carbohydrate Symposium, Cornell University, Ithica, NY, August 10 - 15, 1986.
118. R. M. Giuliano and T. W. Deisenroth, "Synthesis of Branched-Chain Nitro Sugars," National Meeting of the American Chemical Society," New York, NY, April 13, 1986.
119. R. M. Giuliano and J. H. Buzby, "Synthesis and Diels-Alder Reactions of Dienopyranosides," National Meeting of the American Chemical Society," New York, NY, April 13, 1986.
120. R. M. Giuliano and T. W. Deisenroth, "Synthesis of Branched-Chain Nitro Sugars," Philadelphia Organic Chemists' Club Poster Session, Drexel University, June 5, 1985.
121. R. M. Giuliano, T. W. Deisenroth, and W. C. Frank, "Stereoselective Synthesis of Branched-Chain Carbohydrates. A New Synthesis of L-Olivomycose and Approaches to Nitro and Amino Sugars via Unsaturated Pyranosides," National Meeting of the American Chemical Society, Philadelphia, PA, August 27-31, 1984.
122. R. M. Giuliano, T. W. Deisenroth, and W. C. Frank, "Stereoselective Synthesis of Branched-Chain Carbohydrates. A New Synthesis of L-Olivomycose and Approaches to Nitro and Amino Sugars via Unsaturated Pyranosides," 12th International

Carbohydrate Symposium, Utrecht, The Netherlands, July 1 - 8, 1984.

123. R. M. Giuliano, "Synthesis of Branched-Chain Carbohydrates," Drexel University, March 1, 1984.
124. R. M. Giuliano, T. W. Deisenroth, and W. C. Frank, "Stereoselective Synthesis of Branched-Chain Carbohydrates: Synthesis of L-Olivomycose and Approaches to D-Rubranitrose," ACS Mid-Atlantic Regional Meeting, Newark, NJ, May 23, 1984

Undergraduate Research Students Directed

1. Michael Saulino, B.S., 1986, M.D./Ph.D., Pennsylvania State University, Thomas Jefferson University Hospital, Department of Rehabilitation Medicine
2. William Hurley, B.S., 1986, Ph.D. Rensselaer Polytechnic Institute, Chasm Technologies
3. Nancy Fleming, B.S., 1987, Schering Plough, M.D. at Children's Hospital
4. Salvatore Pera, B.S., 1988
5. Teresa O'Keefe, B.S., 1989
6. Nina Chakmaklian, B.S. 1991
7. Teresa Diaz, B.S., 1991, M.S. in Chemistry, Duke University, National Institutes of Health
8. Kathleen Battista, B.S., 1992, ThalesNano
9. Anthony DeLuca, B.S., 1994, Schering Plough
10. Robert Collins, B.S., 1995, Ph.D. in Chemistry, Pennsylvania State University
11. Paul Foley, B.S., 1998, M.D., Thomas Jefferson University
12. John J. Finley IV, B.S., Dartmouth College, M.D.
13. Jocelyn Edathil, B.S., 2000, M.D./Ph.D., Pennsylvania State University
14. Damian Dyckman, B.S. 2000, M.D./Ph.D., Pennsylvania State University
15. J. Patrick Dougherty, B.S., 2000, M.S. in Technology Management (Fulbright Fellowship), Manchester Institute of Science and Technology, UK
16. Joan Nguyen, B.S. in Biology, 2001, National Institutes of Health, medical school
17. Luca Failli, B.S., 2001
18. Melissa Hensel, B.S. 2001, Merck Research Laboratories
19. Jill Nunez, B.S. 2002, Wyeth Pharmaceuticals
20. Rachel Brewster, B.S. 2004 Eastern University, HHMI student
21. Tuan Linh Nguyen, B.S. 2004, Lebanon Valley College, HHMI student
22. Gina Bartolomeo, B.A. in Finance, 2003, University of Virginia
23. Douglas Micalizzi, B.S. 2003, M.D./Ph.D., University of Colorado
24. Valerie Valentin, B.S. 2004, medicinal chemistry, AstraZeneca
25. Christopher Cummings, B.S., 2004, Ph.D. in Chemistry, Yale University
26. Adrienne Kline, B.S., 2004, Penn State Medical School (Hershey)
28. Kim Dallas, B.S., 2005, M.A. program in teacher education
29. Stephen Ten Eyck, B.S., 2005, graduate school in chemistry
30. Doreen Dulay, B.S., 2006
31. Matthew Doroski, B. S. 2007, dental school
32. Broc Flores, B.S. 2007, dental school
33. Katelyn Walck, B.S. 2008, E. I, Dupont de Nemours and Company, Experimental Station
34. Veronica Colón, B.S. 2009
35. Aashish Tuladhar, B.S. (Chemical Engineering), 2010

36. Elizabeth Assenmacher, B.S. expected 2011
37. John Hull, B.S. 2011
38. HyeJin Yoo, B.S. 2011
39. Nissa Abidi, B.S. (Rosemont College) 2012
40. John Hurley, BS. 2013
41. Madeline Rotella, B.S. 2013
43. Chenyao Zhang, B.S. (Chemical Engineering) expected 2014
44. Patrick Wurster, B.S. expected 2015
45. Thomas Ranieri, B.S. expected 2015
46. Robert Lowrie, B.S. (Chemical Engineering) expected 2017
47. Eric Young, B.S. (Biology) expected 2017
48. Hannah Curren, B.S., expected 2017
49. Jonathan Grecco, B.S., expected 2017
50. Stephanie Bodie, B.S. (Chemical Engineering) expected 2017

M.S. Thesis Students Directed

1. Alysia A. Baldwin, B.S. 1982, University of Delaware, "Nitromercuration and Nitroselenenylation of Exocyclic Alkenes," M.S. 1986, R.W. Johnson Pharmaceutical Research and Development
2. Stanley J. Pruskowski, Jr., B.S. 1981, Philadelphia College of Pharmacy and Science, "The Synthesis of Carbocycles from Enol Lactones. An Approach to Neplanocin A.," M.S. 1987, Rohm & Haas
3. Mark Czekaj, B.S. 1986, Villanova University, "Amidomercuration and Amidoselenation of Exocyclic Alkenes," M.S., 1989, Rhone-Poulenc-Rorer Research
4. Tien T. Duong, B.S. 1983, Millersville University, "Electrophilic Cyclization and Thermal Rearrangement of *N,N*-Dimethylpseudoureas", M.S. 1990, Allergan
5. Nicholas Marcopulos, B.S. 1986, Norwich University, "Synthesis and Diels-Alder Reactions of Pyranose-Derived Dienes," M.S., 1990.
6. Scott A. Bolton, B.S. 1983, University of Miami, "Synthetic Approach To The Arugomycin Trisaccharide," M.S., 1991, Bristol-Meyers-Squibb
7. Franco J. Duarte, B.S. 1988, St. Joseph's University, "Addition of Phenylselenenyl Azide to Exocyclic Alkenes," M.S., 1991, CB Research, Inc., Beard, Inc. New Castle, DE
8. Vincent E. Manetta, B.S. 1988, St. Francis College, "The Development of a New Synthetic Route To Amino Sugars From Carbohydrate Oxime Derivatives," M.S., 1992.
9. Roderick S. Davis, B.S. 1990, University of Delaware, "Applications of Azidoselenenylation in Organic Synthesis," M.S., 1994.
10. Carol A. Bigos, B.S. 1991, Alvernia College, "New Methods for the Electrophilic Cyclization of Allylic 1,1-Dimethylisoureas," M.S., 1994, Merck Research Laboratories
11. Hong Ye, B.A. 1988, Shanghai University of Science & Technology, "A Study of the Synthesis of D-Rubranitrose," M.S., 1995, R.W. Johnson Pharmaceutical Research and Development
12. Diane Rush (Faut), B.S. 1993, Bloomsburg University, "Synthetic Studies of Amicetose," M.S., 1995, Merck Research Laboratories
13. Joseph A. Martino, III, B.S., Villanova University, "A Study of Amicetose Derivatives: Lipase-Catalyzed Resolutions, Synthesis, and Analysis," M. S., 1998, Atofina

14. David H. Kaufman, B.S., Shippensburg University, "Synthesis of Cororubicin Trisaccharide Intermediates," M.S., 2001, Wyeth Pharmaceuticals
15. Mildred L. Dulin, B.S., Susquehanna University, "Glycosylation of Branched-Amino Sugars Based on Novel Intermediates Derived from Thioglycosides," M.S. 2001, Merck Research Laboratories
16. Kevin D. Hughes, B.S. 1997, Eastern Illinois University, "A Synthetic Approach to Disaccharides Using the Hetero-Diels-Alder Reaction," M.S., 2001, Celgene, Inc.
17. Sharmane Ratnasara, B.S., Mansfield University, "Synthetic Studies of 2,3,6-Trideoxy Sugars: Amicetose and Rhodinose," M.S. 2001, secondary school science teacher in Sri Lanka
18. Matthew Giovine, "A Synthetic Approach to (-)-Diplopyrone," B.S. Bucknell University, M.S. 2006, ENDAO
19. Thomas Licisyn, B.S. University of Scranton, "Synthesis of Cyclopropyl Glycosides," M.S. 2007
20. Timothy Pellenberg, "Synthesis and Characterization of Functionalized Graphite Nanofibers," B.S. York University, M.S. 2010, E. I, Dupont de Nemours and Company, Experimental Station
21. Clark Scholl, B.S. Carnegie-Mellon, "Synthesis and Coupling Reactions of Cyclopropyl Glycosides," M.S. 2011, Carpenter Technologies
22. Alicia Briegel, B.S. Susquehanna College, M.S., 2014
23. Purav Vagadia, B.S. Illinois Wesleyan, M.S., 2014
24. Madeline Rotella, B.S. Villanova University, M.S. expected 2015

Ph.D. Students Directed

1. Ted W. Deisenroth, B.S., 1982, Allentown College, "Synthesis of Branched-Chain Nitro Sugars", Ph.D., 1987, Sandoz Research
2. John H. Buzby, B.S., Ursinus College, 1976, M.S., 1981, St. Joseph's University, "Synthesis and Diels-Alder Reactions of Dienopyranosides. Reductions of Enodialdopyranosides", Ph.D., 1987,
3. Steve Kasperowicz, B.S., 1982, West Chester State College, "Synthesis of Nogalose, Sibirosamine, and Related Branched-Chain Carbohydrates", Ph.D. 1988, Cardeza Foundation
4. Alfonzo D. Jordon, Jr., B.S., 1981, Tufts University, M.S., 1985, Howard University, "Synthesis and Diels-Alder Reactions of Carbohydrate-Derived Dienes and their Carbocyclic Analogs: The Effects of Allylic and Remote Substituents on Facial Selectivity Ph.D., 1993, IsoSciences, LLC
5. Frank J. Villani Jr., B.S., 1975, Villanova University, M.S., 1975, State University of New York at Oswego, "Synthetic Studies of Naturally-Occurring Branched-Chain Carbohydrates", Ph.D., 1993
6. Franco J. Duarte, B.S., 1988, St. Joseph's University, M.S., 1991, Villanova University, "A Synthetic Approach to the Arugomycin Trisaccharide", Ph.D., 1995
7. Garry R. Smith, B.S., 1991, Bucknell University, Ph.D, "Synthesis of Branched-Chain Carbohydrates of Antibiotics," Ph.D. 1998

Post-Doctoral Researchers

- Wayne G. McMahon, Ph.D., Rensselaer Polytechnic Institute, Post-doctoral studies funded by the National Institutes of Health AREA Grant, 1986-1988
- Lincoln A. Noecker, Ph. D., Villanova University, Post-doctoral studies funded by Villanova University, 1997-1999

Other Research Collaborations

- Dr. Melissa B. Cichowicz, Associate Professor of Chemistry, West Chester University. Dr. Cichowicz directed the research of a Villanova undergraduate, Melissa Hensel, during the summer of 2000. The project involved a synthetic approach to the marine natural product callipeltoside A.
- Dr. David Johnson, Corixa, Inc. Dr. Johnson funded a summer research fellowship at Corixa for Christopher Cummings in 2002, a current Villanova Chemistry major. The research project involved the development of methods for the synthesis of cyclopropyl glycosides and was also funded by the Petroleum Research Fund of the American Chemical Society.
- Dr. Eric Borguet, Professor of Chemistry, Temple University. Our current collaboration in the area of surface characterization of carbon nanomaterials was established in 2008 with the Borguet laboratory.