CURRICULUM VITAE

Gregory N. Tew

Polymer Science & Engineering and Engineering Department
University of Massachusetts – Amherst
120 Governors Drive, Conte A617
Amherst, MA 01003
Tel: (413) 577-1612
Fax: (413) 545-0082
e-mail: tew@mail.pse.umass.edu

Personal:

Born: February 11, 1971; Married to Dawn C. Tew since 1996
Home: 6 Crestview Drive/P.O. Box 108, South Deerfield, MA

Education:

University of Pennsylvania, The Medical School — 2000-2001
Post-doctoral Fellow
Research Advisor: Prof. William F. Degrado

University of Illinois at Urbana-Champaign — 1995-2000
Ph.D., Materials Chemistry
Research Advisor: Prof. Samuel I. Stupp
Thesis: "Phenylene Vinylene Based Supramolecular Materials"

North Carolina State University — 1989-1995
B.S., Chemistry, *Magna Cum Laude*
Research Advisor: Prof. David A. Shultz

Professional Positions:

University of Massachusetts-Amherst — 2011-present
Professor, Polymer Sci/Eng & Engineering

University of Massachusetts – Amherst — 2011-present
Adjunct Professor, Molecular & Cellular Biology

University of Massachusetts – Amherst — 2011-present
Adjunct Professor, Veterinary & Animal Sciences

University of Massachusetts – Amherst — 2007
Associate Professor, Polymer Sci/Eng and Engineering

University of Massachusetts – Amherst — 2001-2007
Assistant Professor, Polymer Sci/Eng and Engineering

University of Pennsylvania, The Medical School — 2000-2001
Post-doctoral Fellow

University of Illinois at Urbana-Champaign — 1995-2000

Research and Teaching Assistant

Burroughs-Wellcome, Co. 1992-1995
Research Chemist, Organic Division

Societies:

American Chemical Society: Division of Organic Chemistry and Division of Polymers
Materials Research Society
American Association for the Advancement of Science

Principal Research Interests:

Bioinspired and biomimetic structures, supramolecular Polymer Sci/Eng, directed self-assembly, self-organization, well-defined macromolecular architectures, metal-containing polymers, membrane biophysics, physical organic chemistry, sensors, novel biomaterials, hydrogels

Awards & Honors:

2014	Fellow, American Institute for Medical & Biological Engineering (AIMBE)
	ACS Division of Polymer Chemistry 2013 Distinguished Service Award
2013:	Fellow, American Chemical Society (ACS)
2013:	Chair, ACS-Division of Polymer Chemistry
2013:	Honorable Speaker, Polymer Science Lecture Series, Changchun, China
2012:	Chair-Elect, ACS-Division of Polymer Chemistry
2012	Visiting Lecturer, Laboratory of Polymers, EPFL, Lausanne, Switzerland
2011:	International Short Visit Fellowship-Swiss National Science Foundation
2011:	Vice-Chair, ACS-Division of Polymer Chemistry
2011:	Fellow, ACS-Division of Polymer Chemistry-2010, Polymer Division,
2011:	Founding Member
	Member, Defense Sciences Study Group (DSSG) of the Institute for
2011	Defense Analyses (DARPA)
	Elected Chair, Scientific Advisory Board, PCCL, Leoben, Austria
2010:	Selected Faculty 1000, Macromolecular Chemistry Section
2010:	Invited Lectureship, Jeffery Lectures, Univ. New South Wales, Australia
2010:	Invited Global Center of Excellence Educator, Kyoto University, Japan
2009:	ACS-Polymer Division-Herman F. Mark Young Scholar Award
2009:	IUPAC MACRO International Samsung Young Polymer Scientist Award
2007:	Selected member of NSF-MEXT U.S.-Japan Young Faculty Exchange in
2006:	BioNanoTechnology
	*National Science Foundation CAREER Award
2005-2009:	*Presidential Early Career Award for Scientists and Engineers (**PECASE**)
2004-2009:	DuPont Young Faculty Grant Award
2004-2007:	*Army Research Office Young Investigator
2004-2007:	*Office of Naval Research Young Investigator
2003-2006:	3M Untenured Faculty Award
2002-2005:	American Chemical Society-Division of Organic Chemistry Graduate
1998-1999:	Fellowship

1997-1998: Beckman Institute for Advanced Science and Technology Research Fellowship
1997-1998: R. C. Fuson Award for Outstanding Graduate Research
1995-1996: Graduate Research Fellowship
1994-1995: Hypercube Scholar – Outstanding Academic Senior
1993-1994: Robert Proctor Undergraduate Research Scholarship
1993: Outstanding Undergraduate Travel Award - American Chemical Society
**represents every young investigator award offered by the Federal Government at the time Greg was eligible.*

LIST OF PUBLICATIONS

(*indicates I am the corresponding author)

-Publication Statistics-

1. Refereed Journal Articles – 179
2. Refereed Articles Published since joining UMass-PSE –162
   11-*in prep, submitted or in press*)
3. Patents – 22
4. Refereed or Invited Book Chapters – 12

Peer Reviewed:

In Preparation

179 *M. Lis, F. Sgolastra, G. N. Tew, "The Energy-Independent Uptake of Protein Transduction Domain Mimics is Affected by Lipid Phase," *Angew. Chem. Int. Ed.*, in prep, (2014).

178 J. Cui, E. M. Saffer, S. R. Bhatia, A. J. Crosby, G. N. Tew, "Phase-separated PEG/PDMS End-linked Networks," *J. Polym. Sci.: Polym. Physics*, in prep, (2013).

177 *H. D. Thaker, A. Canyaka, R. W. Scott, G. N. Tew, "Aryl-based Lipopeptide Mimics," *J. Am. Chem. Soc.*, in prep, (2013).

Submitted

176 K. R. McLeod, G. N. Tew, "Phase-Separated Thiol-Ene Co-Networks from Telechelic Macromonomers with Asymmetric Molecular Weights," *Macromolecules*, (2017), submitted.

175 L. M. Caffrey, B. M. deRonde, L. M. Minter, G. N. Tew, "Tuning ROMP-based Protein Mimic Backbone for Improved siRNA Internalization," *Biomacromol.* (2017), submitted.

Published

174 R. W. Scott, G. N. Tew, "Mimics of Host Defense Proteins; Strategies for Translation to Therapeutic Applications," *Curr. Top. Med. Chem.*, **17**, 576-589, (2017), DOI: 10.2174/1568026616666160713130452.

173 F. Sgolastra, C. M. Backlund, E. I. Ozay, B. M. deRonde, L. M. Minter, G. N. Tew, "Sequence Segretation Improves Non-Covalent Protein Delivery," *J. Con. Rel.*, **254**, 131-136, (2017), DOI: 10.1016/jconrel.2017.03.387.

172 A. O. Tezgel, P. Jacobs, C. M. Backlund, J. C. Telfer, G. N. Tew, "Synthetic Protein Mimics for Functional Protein Delivery," *Biomacromolecules*, **18**, 819-825, (2017), DOI: 10.1021/acs.biomac.6b01685.

171 M. Kwasny, G. N. Tew, "Expanding Metal Cation Options in Polymeric Anion Exchange Membranes," *J. Mat. Chem. A*, **5**, 1400-1405, (2017), DOI: 10.1039/C6TA07990C.

170 C. Backlund, F. Sgolastra, R. Otter, L. M. Minter, T. Takeuchi, S. Futaki, G. N. Tew, "Increased Hydrophobic Block Length of PTDMs Promotes Protein Internalization," *Polym. Chem.*, **7**, 7514-7521, (2016), DOI: 10.1039/C6PY01615D

169 J. M. Sarapas, G. N. Tew, "Thiol-ene Step-Growth as a Versatile Route to Functional Polymers," *Angew. Chem. Intl. Ed*., **55**, 15860-15863, (2016), DOI: 10.1002/anie.201609023.

168 N. D. Posey, L. Caffrey, L. M. Minter, G. N. Tew, "Protein Mimic Hydrophobicity Affects Intracellular Delivery but not Cargo Binding," *Chemistry Select*., **1**, 6146-6150, (2016), DOI: 10.1002/slct.201601652.

167 E. I. Ozay, G. Gonzalez-Perez, J. A. Torres, J. Vijayaraghavan, R. Lawlor, H. L. Sherman, D. T. Jr., Garrian, A. S. Burnside, B. A. Osborne, G. N. Tew, L. M. Minter, "Intracellular Delivery of Anti-pPKCθ (Thr538) via Protein Transduction Domain Mimics for Immunomodulation," *Mol. Ther.*, 111-111, (2016), DOI: 10.1038/mt.2016.177, PMID: 27633441, *PubMed in process*.

166 L. M. Caffrey, B. M. deRonde, L. M. Minter, G. N. Tew, "Mapping Optimal Charge Density and Length of ROMP-Based PTDMs for siRNA Internalization," *Biomacromolecules*, **17**, 3205-3212, (2016), DOI: 10.1021/acs.biomac.6b00900, PubMed: 27599388.

165 M. Lis, F. Dorner, G. N. Tew, K. Lienkamp, "Anionic Lipid Content Presents a Barrier to ROMP-based PTDM Activity," *Langmuir*, **32**, 5946-5954, (2016), DOI: 10.1021/acs.langmuir.6b00230, PMID: 27182863.

164 B. deRonde, N. Posey, R. Otter, L. M. Minter, G. N. Tew, "Optimal Hydrophobicity in ROMP-based Protein Mimics Required for siRNA Internalization," *Biomacromol*., **17**, 1969-1977, (2016), DOI: 10.1021/acs.biomac.6b00138. PMCID: PMC4964964.

163 J. Sarapas, K. Saijo, Y. Zhao, M. Takenaka, G. N. Tew, "Phase Behavior and Li+ Ion Conductivity of Styrene-Ethylene Oxide Multiblock Copolymer Electrolytes," *Polym. Adv. Technol.*, **27**, 946-954, (2016), DOI: 10.1002/pat.3753.

162 J. Sarapas, G. N. Tew, "Poly(ether-thioethers) by Thiol-ene click and their Oxidized Analogues as Lithium Polymer Electrolytes," *Macromol*., **49**, 1154-1162, (2016), DOI: 10.1021/acs.macromol.5b02513.

161 C. Backlund, T. Takeuchi, S. Futaki, G. N. Tew, "Relating Structure and Internalization for ROMP-based Protein Mimics," *Biochim Biophys Acta*., **1858**, 1443-1450, (2016), DOI: 10.1016/j.bbamem.2016.03.024, PMCID: PMC4964965.

160 M. Khan, J. Yang, C. C. Shi, Y. K. Feng, W. C. Zhang, K. Gibney, G. N. Tew, "Surface Modification of Polycarbonate Urethane with Zwitterionic Polynorbornene

via Thiol-ene *Click-Reaction* to Facilitate Cell Growth and Proliferation," *Macromol Mtrls Eng*, **300**, 802-809, (2015), DOI: 10.1002/mame.201500038.

159 B. deRonde, J. Torres, L. Minter, G. N. Tew, "Development of Guanidinium-rich Protein Mimics for Efficient siRNA Delivery into Human T Cells," *Biomacromol*., **16**, 3172-3179, (2015), DOI: 10.1021/acs.biomac.5b00795, PMCID: PMC4964960.

158 M. Lein, B. M. deRonde, F. Sgolastra, G. N. Tew, M. A. Holden, "Protein Transport Across Membranes: Comparison Between Lysine and Guanidine-rich Carriers," *Biochim Biophys Acta*, **1848**, 2980-2984, (2015), DOI: 10.1016/j.bbamem. 2015.09.004, PMID: 26342679.

157 B. deRonde, G. N. Tew, "Development of Protein Mimics for Intracellular Delivery," *Biopolymers*, **104**, 265-280, (2015), DOI: 10.1002/bip.22658, PMCID: PMC4516575.

156 M. Khan, J. Yang, C. Shi, Y. Feng, W. Zhang, K. Gibney, G. N. Tew, "Manipulation of Polycarbonate Urethane Bulk Properties via Incorporated Zwitterionic Polynorbornene for Tissue Engineering Applications," *RSC Adv.*, **5**, 11284-11292, (2015), DOI: 10.1039/c4ra14608e.

155 B. deRonde, A. Birke, G. N. Tew, " Design of Aromatic-containing Cell Penetrating Peptide Mimics with Structurally Modified π-electronics," *Chem. Eur. J.*, **21**, 3013-3019, (2014), DOI: 10.1002/chem.201405381.

154 *K. Zhang, G. N. Tew, "Cyclic Polymers as a Building Block for Cyclic Brush Polymers and Gels," *Reactive & Func. Polym.*, **80**, 40-47, (2014), DOI: 10.1016/j.reactfunctpolym. 2014.01.012, **special issue*

153 C. N. Walker, K. C. Bryson, R. C. Hayward, G. N. Tew, "Wide Bicontinuous Compositional Windows from Co-networks Made with Telechelic Macromonomers," *ACS Nano*, **8**, 12376-12385, (2014), DOI: 10.1021/nn505026a.

152 *C. Walker, J. Sarapas, V. Kung, A. Hall, G. N. Tew, "Multiblock Copolymers by Thiol Addition Across Norbornene," *ACS Macro Lett.*, **3**, 453-457, (2014), DOI: 10.1021/mz5001288.

151 F. Sgolastra, L. M. Minter, B. A. Osborne, G. N. Tew, "The Importance of Sequence Specific Hydrophobicity in Synthetic Protein Transduction Domain Mimics," *Biomacromolecules*, **15**, 812-820, (2014), DOI: 10.1021/bm401634r.

150 E. M. Saffer, M. A. Lackey, D. M. Griffin, S. Kishore, G. N. Tew, S. R. Bhatia, "SANS Study of Highly Resilient Poly(ethylene glycol) Hydrogels," *Soft Matter*, **10**, 1905-1916, (2014), DOI: 10.1039/c3sm52395k.

149 C. Leng, K. A. Gibney, Y. Liu, G. N. Tew, Z. Chen, "In Situ Probing the Surface Restructuring of Antibiofouling Amphiphilic Polybetaines in Water," *ACS Macro Lett.*, **2**, 1011-1015, (2013), DOI: 10.1021/mz400503z.

148 M. L. Disabb-Miller, Y. Zha, A. J. DeCarlo, M. Pawar, G. N. Tew, M. A. Hickner, "Water Uptake and Ion Mobility in Cross-linked Bis(terpyridine) Ruthenium-based Anion Exchange Membranes," *Macromolecules*, **46**, 9279-9287, (2013), DOI: 10.1021/ma401701n.

147 K. Zhang, Y. Zha, B. Peng, Y. Chen, G. N. Tew, "Metallo-Supramolecular Cyclic Polymers," *J. Am. Chem. Soc., J.A.C.S.*, **135**, 15994-15997, (2013), DOI: 10.1021/ja407381f.

146 D. T. Martin, C. J. Holmes, H. Z. Kaimakliotis, C. J. Cheng, K. Zhang, J. Liu, M. A. Wheeler, W. K. Kelly, G. N. Tew, W. M. Saltzman, R. M. Weiss, "Nanoparticles for Urothelium Penetration and Delivery of the Histone Deacetylase Inhibitor Belinostat for Treatment of Bladder Cancer," *Nanomed*, 9, 1124-1134, (2013), DOI: 10.1016/j.nano.2013.05.017, PMCID: PMC3815967.

145 *F. Sgloastra, B. deRonde, J. M. Sarapas, A. Som, G. N. Tew, "Designing Mimics of Membrane Active Proteins," *Acct. Chem. Res.*, **46**, 2977-2987, (2013), DOI: 101021/ar400066v, PMCID: PMC4106261.

144 T.- H. Fu, Y. Li. H. D. Thaker, R. W. Scott, G. N. Tew, "Expedient Synthesis of SMAMPs via Click Chemistry," *Chem. Eur. J.*, **4**, 841-845, (2013), DOI: 10.1021/ml400155a, *PubMed in process*.

143 *H. D. Thaker, A. Canyaka, R. W. Scott, G. N. Tew, "Role of Amphiphilicity in the Design of Synthetic Mimics of Antimicrobial Peptides with Gram-Negative Activity," *ACS Med. Chem. Lett.*, **4**, 481-485, (2013), DOI: 10.1021/ml300307b, PMCID: PMC3694626.

142 *A. O. Tezgel, G. Gonzalez Perez, J. C. Telfer, B. A. Osborne, L. M. Minter, G. N. Tew, "Novel Protein Transduction Domain Mimics as Nonviral Delivery Vectors for siRNA Targeting NOTCH1 in Primary Human T Cells," *Mol. Ther.*, **21**, 201-209, (2013), DOI:10.1038/mt.2012.209, PMCID: PMC3538314.

141 *Y. Zha, R. R. Maddikeri, S. P. Gido, G. N. Tew, "Magnetic Properties of Cobalt-Containing Diblock Copolymers with Cylindrical Morphology of Different Domain Sizes," *J. Inorg. Organomet. Polym. Mtrls.,** **23**, 89-94, (2013), DOI:10.1007/s10904-012-9744-2. **Special Issue dedicated to Dr. Hiroshi Nishihara.*

140 *N. Schmidt, M. Lis, A. Anastassia, K. Zhao, G. Lai, G. N. Tew, G. C. L. Wong, "Molecular Basis for Nanoscopic Membrane Curvature Generation from Quantum Mechanical Models and Synthetic Transporter Sequences," *J. Am. Chem. Soc.*, **46**, 19207-19216, (2012), DOI:10.1021/ja308459j, PMCID: PMC4036524.

139 *Y. Zha, H. D. Thaker, R. R. Maddikeri, S. P. Gido, M. T. Tuominen, G. N. Tew, "Nanostructured Block-random Copolymers with Tunable Magnetic Properties," *J. Am. Chem. Soc.*, **134**, 14534-14541, (2012), DOI: 10.1021/ja305249b.

138 *A. Som, N. Navasa, A. Percher, R. W. Scott, J. Anguita, G. N. Tew, " Identification of Synthetic Host Defense Peptide Mimics that Exert Dual Antimicrobial and Anti-Inflammatory Activities," *Clin. Vaccine Immunol.*, **19**, 1784-1791, (2012), DOI: 10.1128/CVI.00291-12, PMCID: PMC3491551.

137 *Y. Li, K.-N. Kumar, J. M. Dabkowski, M. Corrigan, R. W. Scott, K. Nusslein, G. N. Tew, "A New Bactericidal Surgical Suture Coating," *Langmuir*, **28**, 12134-12139, (2012), DOI: 10.1021/la302732w.

136 *J. Cui, M. Lackey, G. N. Tew, A. J. Crosby, "Mechanical Properties of End-linked PEG/PDMS Hydrogels," *Macromolecules*, **45**, 6104-6110, (2012), DOI: 10.1021/ma300593g.

135 *H. D. Thaker, A. Som, F. Ayaz, R.W. Scott, J. Anguita, G. N. Tew, "Synthetic Mimics of Antimicrobial Peptides with Immunomodulatory Responses," *J. Am. Chem. Soc.*, **134**, 11088-11091, (2012), DOI: 10.1021/ja303304j, PMCID: PMC3406751.

134 *C. N. Walker, C. Versek, M. Tuominen, G. N. Tew, "Tunable Networks from Thiol-ene Chemistry for Lithium Ion Conduction," *ACS Macro Lett.*, **1**, 737-741, (2012), DOI: 10.1021/mz300090m.

133 *S. Colak, G. N. Tew, "Amphiphilic Polybetaines: the Effect of Side-chain Hydrophobicity on Protein Adsorption," *Biomacromolecules*, **13**, 1233-1239, (2012), DOI: 10.1021/bm201791p.

132 *A. Som, Y. Xu, R. W. Scott, G. N. Tew, "Anion Mediated Activation of Guanidine Rich Small Molecules," *Org. Biomol. Chem.*, **10**, 40-42, (2012), DOI: 10.1039/C1OB06373A.

131 *A. Som, A. Reuter, G. N. Tew, "Protein Transduction Domain Mimics: The Role of Aromatic Functionality," *Angew. Chem. Int. Ed*, **51**, 980-983, (2012), DOI: 10.1002/anie.201104624.

130 *K. Zhang, G. N. Tew, "Cyclic Brush Polymers by Combining Ring-Expansion Metathesis Polymerization and the 'Grafting from' Technique," *ACS Macro Lett.*, **1**, 574-579, (2012), DOI: 10.1021/mz2001675.

129 *J. Cui, M. A. Lackey, A. E. Madkour, E. M. Saffer, D. M. Griffin, S. R. Bhatia, A. J. Crosby, G. N. Tew, "Synthetically Simple, Highly Resistant Hydrogels," *Biomacromolecules*, **13**, 584-588, (2012), DOI: 10.1021/bm300015s, PMCID-in process

128 *Y. Zha, M. L. Disabb-Miller, Z. D. Johnson, M. A. Hickner, G. N. Tew, "Metal Cation-Based Anion Exchange Membranes," *J. Am. Chem. Soc.*, **134**, 4493-4496, (2012), DOI: 10.1021/ja211365r.

127 *S. Colak, G. N. Tew, "Dual-Functional ROMP-Based Betaines: Effect of Hydrophilicity and Backbone Structure on Non-Fouling Properties," *Langmuir*, **28**, 666-675 (2012), DOI: 10.1021/la203683u.

126 E. M. Saffer, G. N. Tew, S. R. Bhatia, "Poly(lactic acid)-poly(ethylene oxide) Block Copolymers: New Directions in Self-Assembly and Biomedical Applications," *Curr. Med. Chem.*, **18**, 5676-5686, (2011), DOI**:** 10.2174/092986711798347324.

125 *Z. M. AL-Badri, R. R. Maddikeri, Y. Zha, H. D. Thaker, P. Dobriyal, R. Shunmugam, T. P. Russell, G. N. Tew, "Room Temperature Magnetic Materials from Nanostructured Diblock Copolymers," *Nature Comm.*, **2**, 482, (2011), DOI:10.1038/ncomms1485.

124 R. R. Maddikeri, S. Colak, S. P. Gido, G. N. Tew, "Zwitterionic Polymersomes in an Ionic Liquid: Room Temperature TEM Characterization," *Biomacromolecules* (Communication), **12**, 3412-3417, (2011), DOI: 10.1021/bm2010142.

123 J. M. Rathfon, R. W. Cohn, A. J. Crosby, J. P. Rothstein, G. N. Tew, "Confinement Effects on Chain Entanglement in Free-Standing Polystyrene Ultrathin Films," *Macromolecules*, **44**, 5436-5442, (2011), DOI: 10.1021/ma1026324.

122 A. O. Tezgel, J. C. Telfer, G. N. Tew, "De Novo Designed Protein Transduction Domain Mimics from Simple Synthetic Polymers," *Biomacromolecules*, **12**, 3078-3083, (2011), DOI: 10.1021/bm200694u.

121 W. Hu, A. Som, G. N. Tew, "Interactions Between Lipids and Antimicrobial Oligomers Studied by Solid-State NMR," *J. Phys. Chem. B*, **115**, 8474-8480, (2011), DOI: 10.1021/jp202414m, PMCID: PMC3810013.

120 *K. Zhang, M. A. Lackey, Y. Wu, G. N. Tew, "Universal Cyclic Polymer Templates," *J. Am. Chem. Soc.*, **133**, 6906-6909, (2011), DOI: 10.1021/ja2007559.

119 *A. Som, A. O. Tezgel, G. J. Gabriel, G. N. Tew, "Self Activation in De Novo Designed Mimics of Cell-Penetrating Peptides," *Angew. Chem. Int. Ed.*, **50**, 1-5, (2011), DOI: 10.1002/anie.201101535.

118 *K. Lienkamp, A. E. Madkour, G. N. Tew, "Antibacterial Peptidomimetics: Polymeric Synthetic Mimics of Antimicrobial Peptides," *Adv. Polym. Sci.*, **251**1-32, (2011), DOI: 10.1007/12_2010_85.

117 *K. Zhang, M. Lackey, J. Cui, G. N. Tew, "Gels Based on Cyclic Polymers," *J. Am. Chem. Soc.*, **133**, 4140-4148, (2011), DOI: 10.1021/ja111391z.

116 *H. D. Thaker, F. Sgolastra, D. Clements, R. W. Scott, G. N. Tew, "Synthetic Mimics of Antimicrobial Peptides from Triaryl Scaffolds," *J. Med. Chem.*, **54**. 2241-2254, (2011), DOI: 10.1021/jm101410t, PMCID: PMC3072574.

115 *A. E. Madkour, J. M. Grolman, G. N. Tew, "Synthesis of Hydrogels via Ring-Opening Metathesis Polymerization: Factors Affecting Gelation," *Polym. Chem.*, **2**, 114-119, (2011), DOI: 10.1039/C0PY00151A.

114 *J. M. Rathfon, R. W. Cohn, A. J. Crosby, G. N. Tew, "Hole Nucleation in Free-Standing Polystyrene Ultrathin Films," *Macromolecules*, **44**, 134-139, (2011), DOI: 10.1021/ma1020227.

113 *K. Zhang, J. Cui, M. Lackey, G. N. Tew, "Hydrogels Based on Living Ring-Opening Metathesis Polymerization," *Macromolecules*, **43**, 10246-10252, (2010), DOI: 10.1021/ma101950f

112 S. K. Agrawal, N. Sanabria-DeLong, S. K. Bhatia, G. N. Tew, S. R. Bhatia, "Energetics of Association in Poly(lactic acid)-based Hydrogels with Crystalline and Nanoparticle-Polymer Junctions," *Langmuir*, **26**, 17330-17338, (2010), DOI: 10.1021/la102760g, PMCID: PMD3457807.

111 *R. Shunmugam, G. J. Gabriel, K. A. Aamer, G. N. Tew, "Metal-Ligand-Containing Polymers: Terpyridine as the Supramolecular Unit," *Macromol. Rapid Comm.*, **31**, 784-793, (2010), DOI: 10.1002/marc.200900869.

110 A. E. Madkour, A. H. R. Koch, K. Lienkamp, G. N. Tew, "End-Functionalized ROMP Polymers for Biomedical Applications," *Macromolecules*, **43**, 4557-4561, (2010), DOI: 10.1021/ma100330u, PMCID: PMC3076928.

109 *J. Jiang, M. M. Slutsky, T. V. Jones, G. N. Tew, "Apolar *ortho*-Phenylene Ethynylene Oligomers: Conformational Ordering without Intermolecular Aggregation," *New J. Chem.*, **34**, 307-312, (2010), DOI: 10.1039/B9NJ00200F.

108 *G. N. Tew, R. W. Scott, M. L. Klein, W. F. Degrado, "De Novo Design of Antimicrobial Polymers, Foldamers, and Small Molecules: From Discovery to Practical Applications," *Acc. Chem. Res.*, **43**, 30-39, (2010), DOI: 10.1021/ar900036b, PMCID: PMC 2808429.

107 J. A. Lamboy, J. A. Arter, K. A. Knopp, D. Der, C. M. Overstreet, E. F. Palermo, H. Urakami, T.-B. Yu, O. Tezgel, G. N. Tew, Z. B. Guan, K. Kuroda, G. A. Weiss, "Phage Wrapping with Cationic Polymers Eliminates Nonspecific Binding between M13 Phage and High p/Target Proteins," *J. Am. Chem. Soc.*, **131**, 16454-16460, (2009), DOI: 10.1021/ja9050873, PMCID: PMC3197222.

106 *K. Lienkamp, A. E. Madkour, K.-N. Kumar, Klaus Nüsslein, G. N. Tew, "Antimicrobial Polymers Prepared by Ring-Opening Metathesis Polymerization: Manipulating Antimicrobial Properties by Organic Counterion and Charge Density Variation," *Chem. Eur. J.*, **15**, 11715-11722, (2009), DOI: 10.1002/chem.200900606.

105 *K. Lienkamp, K.-N. Kumar, A. Som, K. Nüsslein, G. N. Tew, "'Doubly Selective' Antimicrobial Polymers: How Do They Differentiate Between Bacteria?" *Chem. Eur. J.*, **15**, 11710-11714, (2009), DOI: 10.1002/chem.200802558.

104 *A. Som, L. Yang, G. Wong, G. N. Tew, "Divalent Metal Ion Triggered Activity of a Synthetic Antimicrobial in Cardiolpin Membranes," *J. Am. Chem. Soc.*, **131**, 15102-15103, (2009), DOI: 10.1021/ja9067063, PMCID: PMC3692289.

103 *K. Lienkamp, G. N. Tew, "Synthetic Mimics of Antimicrobial Peptides – A Versatile Ring-Opening Metathesis Polymerization Based Platform for the Synthesis of Selective Antibacterial and Cell-Penetrating Polymers," *Chem. Eur. J.*, **15**, 11784-11800, (2009), DOI: 10.1002/chem.200900049. **Highlighted with a frontispiece.*

102 C. W. Avery, A. Som, Y. Xu, G. N. Tew, Z. Chen, "Dependence of Antimicrobial Selectivity and Potency on Oligomer Structure Investigated Using Substrate Supported Lipid Bilayers and Sum Frequency Generation Vibrational Spectroscopy," *Anal. Chem.*, **81**, 8365-8372, (2009), DOI: 10.1021/ac901271f.

101 *J. M. Rathfon, J. M. Grolman, A. J. Crosby, G. N. Tew, "Formation of Oriented, Suspended Fibers by Melting Free Standing Polystyrene Thin Films," *Macromolecules*, **42**, 6716-6722, (2009). DOI: 10.1021/ma901121u.

100 S. Pabba, M. M. Yazdanpanah, B. H. F. Totten, W. Dobrokhotov, J. M. Rathfon, G. N. Tew, R. W. Cohn, "Biopolymerization-Driven Self-Assembly of Nanofiber Air-Bridges," *Soft Matter*, **5**, 1378-1385, (2009). DOI: 10.1039/b817761a.

99 *T. Eren, G. N. Tew, "Phosphonic Acid Based Amphiphilic Diblock Copolymers Derived from ROMP," *J. Polym. Sci.: Polym. Chem.*, 47, 3949-3956, (2009). DOI: 10.1002/pola.23425.

98 J. Chen, J. A. Hessler, K. Putchakayala, B. K. Panama, D. P. Khan, S. Hong, D. G. Mullen, S. C. DiMaggio, A. Som, G. N. Tew, A. N. Lopatin, J. R. Baker, Jr., M. M.

Banaszak Holl, B. G. Orr, "Cationic Nanoparticles Induce Nanoscale Disruption in Living Cell Plasma Membranes," *J. Phys. Chem.*, **113**, 11179-11185, (2009). DOI: 10.1021/jp9033936, PMCID: PMC2753177.

97 *K. Lienkamp, C. F. Kins, S. F. Alfred, A. E. Madkour, G. N. Tew "Water-Soluble Polymers from Acid-Functionalized Norbornenes," *J. Polym. Sci.: Polym. Chem.*, **47**, 1266-1273, (2009), DOI: 10.1002/pola.23223.

96 *S. Colak, C. F. Nelson, K. Nüsslein, G. N. Tew, "Hydrophilic Modifications of an Amphiphilic Polynorbornene and the Effects on its Hemolytic and Antibacterial Activity," *Biomacromolecules*, **10**, 353-359, (2009), DOI: 10.1021/bm801129y, PMCID: PMC4036528.

95 *J. M. Rathfon, Z. M. AL-Badri, R. Shunmugam, S. M. Berry, S. Pabba, R. S. Keynton, R. W. Cohn, G. N. Tew, "Fluorimetric Nerve Gas Sensing Based on Pyrene Imines Incorporated into Films and Sub-Micrometer Fibers," *Adv. Funct. Mat.*, **19**, 689-695, (2009), DOI: 10.1002/adfm.200800947.

94 *A. E. Madkour, J. M. Dabkowski, K. Nüsslein, G. N. Tew, "Fast Disinfecting Antimicrobial Surfaces." *Langmuir*, **25**, 1060-1067, (2009), DOI: 10.1021/la802953v, PMCID: PMC3748578.

93 *G. J. Gabriel, J. A. Maegerlein, C. F. Nelson, J. M. Dabkowski, T. Eren, K. Nüsslein, G. N. Tew, "Comparison of Facially Amphiphilic versus Segregated Monomers in the Design of Antibacterial Copolymers." *Chem. Eur. J.*, **15**, 433-439, (2009), DOI: 10.1002/chem.200801233, PMCID: PMC3839533.

92 *L. Yang, V. D. Gordon, D. R. Trinkle, N. W. Schmidt, M. A. Davis, C. DeVries, A. Som, J. E. Cronan, Jr., G. N. Tew, G. C. L. Wong, "Mechanism of a Prototypical Synthetic Membrane-Active Antimicrobial: Efficient Hole-Punching via Interaction with Negative Intrinsic Curvature Lipids," *Proc. Natl. Acad. Sci.*, **105**, 20595-20600, (2008), DOI: 10.1073/pnas.0806456105, PMCID: PMC2634941.

91 *R. W. Scott, W. F. Degrado, G. N. Tew, "De Novo Designed Synthetic Mimics of Antimicrobial Peptides," *Cur. Opin. BioTech*, **19**, 620-627, (2008), DOI: 10.1016/j.copbio.2008.10.013, PMCID: PMC2646611.

90 *Z. M. AL-Badri, A. Som, S. Lyon, C. F. Nelson, K. Nüsslein, G. N. Tew, "Investigating the Effect of Increasing Charge Density on the Hemolytic Activity of Synthetic Antimicrobial Polymers," *Biomacromolecules*, 9, 2805-2810, (2008), DOI: 10.1021/bm800569x.

89 *G. J. Gabriel, A. E. Madkour, J. M. Dabkowski, C. F. Nelson, K. Nüsslein, G. N. Tew, "Synthetic Mimic of Antimicrobial Peptide with Nonmembrane-Disrupting Antibacterial Properties," *Biomacromolecules*, **9**, 2980-2983, (2008), DOI:10.1021/bm800855t, PMCID: PMC2646885.

88 S. K. Agrawal, N. Sanabria-DeLong, G. N. Tew, S. R. Bhatia, "Nanoparticle-Reinforced Associative Network Hydrogels," *Langmuir*, **24**, 13148-13154, (2008), PMCID: 3395320.

87 *S. Colak, G. N. Tew, "Synthesis and Solution Properties of Norbornene Based Polybetaines," *Macromolecules*, **41**, 8436-8440, (2008).

86 S. K. Agrawal, N. Sanabria-DeLong, G. N. Tew, S. R. Bhatia, "Structural Characterization of PLA-PEO-PLA Solutions and Hydrogels: Crystalline vs. Amorphous PLA Domains," *Macromolecules*, 41, 1774-1784, (2008).

85 *M. M. Slutsky, J. S. Phillip, G. N. Tew, "Synthesis and Characterization of Amphiphilic *o*-Phenylene Ethynylene Oligomers," *New. J. Chem.*, **32**, 670-675, (2008), DOI: 10.1039/B707618E.

12 *N. Sanabria-DeLong, A. J. Crosby, G. N. Tew, "Photo-Cross-Linked PLA-PEO-PLA Hydrogels from Self-Assembled Physical Networks: Mechanical Properties and Influence of Assumed Constitutive Relationships," *Biomacromolecules*, **9**, 2784-2791, (2008).

83 *G. J. Gabriel, J. Pool, A. Som, J. M. Dabkowski, E. B. Coughlin, M. Muthukumar, G. N. Tew, "Interactions Between Antimicrobial Polynorbornenes and Phospholipid Vesicles Monitored by Light Scattering and Microcalorimetry," *Langmuir*, **24**, 12489-12495, (2008), DOI: 10.1021/la802232p, PMID: 18841926.

82 *J. Jiang, G. N. Tew, "Synthesis of Macrocycle Isomers via Metathesis Cyclization and Their Self-Assembly," *Org. Lett.*, **10**, 4393-4396, (2008).

81 *S. F. Alfred, K. Lienkamp, A. E. Madkour, G. N. Tew, "Water-Soluble ROMP Polymers from Amine-Functionalized Norbornenes," *J. Polym. Sci: Polym. Chem. A.*, **46**, 6672-6676, (2008).

80 *K. Lienkamp, A. E. Madkour, A. Musante, C. F. Nelson, K. Nüsslein, G. N. Tew, "Antimicrobial Polymers Prepared by ROMP with Unprecedented Selectivity: A Molecular Construction Kit Approach," *J. Am. Chem. Soc.*, **130**, 9836-9843 (2008), DOI:10.1021/ja801662y.

79 *T. V. Jones, M. M. Slutsky, G. N. Tew, "Extending Helicity-Capturing the Helical Character of Longer *ortho*-Phenylene Ethynylene Oligomers," *New. J. Chem.*, **32**, 676-679, (2008). PMCID: PMC4106262. `Highlighted on the Cover.`

78 *R. Shunmugam, G. N. Tew, "Terpyridine-Lanthanide Complexes Respond to Fluorophosphate Containing Nerve Gas G-Agent Surrogates," *Chem. Eur. J.*, **14**, 5409-5412, (2008).

77 *R. Shunmugam, G. N. Tew, "Polymers that Contain Ligated Metals in their Side Chain: Building a Foundation for Functional Materials in Opto-Electronic Applications with an Emphasis on Lanthanide Ions," *Macrol. Rapid Comm.*, **29**, 1355-1362, (2008). `Feature Article: Highlighted on the Cover.`

76 *A. Hennig, G. J. Gabriel, G. N. Tew, S. Matile, "Stimuli-Responsive Polyguanidin Oxanorbornene Membrane Transporters as Multicomponent Sensors in Complex Matrices," *J. Am. Chem. Soc.*, **130**, 10338-10344, (2008). PMCID: PMC2646665.

75 *Z. AL-Badri, G. N. Tew, "Well-Defined Acetylene-Functionalized Oxanorbornene Polymers and Block Copolymers," *Macromolecules*, **41**, 4173-4179, (2008).

74 *J. M. Rathfon, G. N. Tew, "Synthesis of Thermoresponsive Poly(*N* Isopropylmethacrylamide) and Poly(Acrylic Acid) Block Copolymers via Post-Functionalization of Poly(*N*-Methacryloxysuccinimide)," *Polymer*, **49**, 1761-1769. (2008).

73 *S. F. Alfred, Z. M. AL-Badri, A. E. Madkour, K. Lienkamp, G. N. Tew, "Water Soluble Polyethylene Oxide Functionalized Norbornene Polymers," *J. Polym. Sci..; Polym. Chem. A.*, **46**, 2640-2648, (2008).

72 *R. Shunmugam, G. N. Tew, "White-Light Emission from Mixing Blue and Red Emitting Metal Complexes," *Polym. Adv. Tech.*, **19**, 596-601, (2008).

71 *R. Shunmugam, G. J. Gabriel, C. E. Smith, K. A. Aamer, G. N. Tew, "A Highly Selective Colorimetric Aqueous Sensor for Mercury," *Chem. Eur. J.*, **14**, 3904-3907, (2008), DOI: 10.1002/chem.200701895, PMID:18348130.

70 *A. Som, G. N. Tew, "Influence of Lipid Composition on Membrane Activity of Antimicrobial Phenylene Ethynylene Oligomers," *J. Phys. Chem. B.*, **112**, 3495-3502, (2008), PMCID: PMC3774278.

69 *T. Eren, A. Som, J. R. Rennie, C. F. Nelson, Y. Urgina, K. Nüsslein, E. B. Coughlin*, G. N. Tew, "Antibacterial and Hemolytic Activities of Quaternary Pyridinium Functionalized Polynorbornenes," *Macromol. Chem. Phys.*, **209**, 516-524, (2008), DOI: 10.3390/ijms16023626, PMCID: PMC4346917.

68 *A. Som, S. Vemparala, I. Ivanov, G. N. Tew, "Synthetic Mimics of Antimicrobial Peptides," *Biopolymers*, **90**, 83-93, (2008).

67 *K. A. Aamer, W. H. de Jeu, G. N. Tew, "Diblock Copolymers Containing Metal Complexes in the Side Chain of One Block," *Macromolecules*, **41**, 2022-2029, (2008).

66 *G. J. Gabriel, G. N. Tew, "Conformationally Rigid Proteomimetics: A Case Study in Designing Antimicrobial Aryl Oligomers," *Org. Biomol. Chem.*, **6**, 417-423, (2008). *Highlighted as a frontispeice.*

65 *A. E. Madkour, G. N. Tew, "Toward Self-Sterilizing Medical Devices: Controlling Infection," *Polym. Intl.*, **57**, 6-10, (2008).

64 S. H. Seo, J. H. Park, G. N. Tew, J.-Y. Chang, "Thermotropic Liquid Crystals of 1*H*-Imidazole Amphiphiles Showing Hexagonal Columnar and Micellar Cubic Phases," *Tetrahedron Lett.*, **48**, 6839-6844, (2007).

63 N. Beckloff, D. Laube, T. Castro, D. Furgang, S. Park, D. Perlin, D. Liu, D. Clements, H. Tang, R. W. Scott, G. N. Tew, G. Diamond, "Activity of an Antimicrobial Peptide-Mimetic Against Planktonic and Biofilm Cultures of Oral Pathogens," *Antimic. Agents Chemo.*, **51**, 4125-4132, (2007), PMCID: PMC2151458.

62 *N. Sanabria-DeLong, S.K. Agrawal, S. R. Bhatia, G. N. Tew, "Impact of Synthetic Technique on PLA-PEO-PLA Physical Hydrogel Properties" *Macromolecules*, **40**, 7864-7873, (2007).

61 *K. A. Aamer, G. N. Tew, "RAFT Polymerization of a Novel Activated Ester Monomer and Conversion to a Terpyridine-Containing Homopolymer," *J. Polym. Sci.: Polym. Chem.,A.* **45**, 5618-5625, (2007).

60 *R. Shunmugam, G. N. Tew, "Dialing in Color with Rare Earth Metals: Facile Production of True White Light," *Polym. Adv. Tech.*, **18**, 940-945, (2007).

59 *L. Yang, V. D. Gordon, A. Mishra, A. Som, K. R. Purdy, M. A. Davis, G. N. Tew, G. C. L. Wong, "Synthetic Antimicrobial Oligomers Induce a Composition-Dependent Topological Transition in Membranes," *J. Am. Chem. Soc.*, **129**, 12141-12147, (2007).

58 S. K. Agrawal, N. Sanabria-DeLong, P. R. Jemian, G. N. Tew, Bhatia, S. R., "Micro- to Nanoscale Structure of Biocompatible PLA-PEO-PLA Hydrogels," *Langmuir*, **23**, 5039-5044, (2007).

57 J. A. Zimberlin, N. Sanabria-DeLong, G. N. Tew, A. J. Crosby, "Cavitation Rheology for Soft Materials," *Soft Matter*, **3**, 763-767, (2007).

56 *G. J. Gabriel, A. Som, A. E. Madkour, T. Eren, G. N. Tew, "Infectious Disease: Connecting Innate Immunity to Biocidal Polymers," *Mtrls. Sci. Eng.*, R**57**, 28-64, (2007). PMCID: PMC2153456. *Invited article.*

55 *R. Shunmugam, C. E. Smith, G. N Tew, "ATRP Synthesis of ABC Lipophilic-Hydrophilic-Fluorophilic Triblock Copolymers," *J. Polym. Sci.: Polym. Chem. A.*, **45**, 2601-2608 (2007).

54 *K. A. Aamer, G. N. Tew, "Synthesis, Dynamic Light Scattering, and Luminescence Properties of Copolymers Containing Iridium (III) Bisterpyridine in the Side Chain," *J. Polym. Sci.:Polym. Chem. A.*, **45**, 1109-1121, (2007).

53 *K. A. Aamer, G. N. Tew, "Supramolecular Polymers Containing Terpyridine – Metal Complexes in the Side Chain," *Macromolecules*, **40**, 2737-2744, (2007).

52 *M. M. Slutsky, T. V. Jones, G. N. Tew, "Spin System Assignment of Homo-*o*-Phenylene Ethynylene Oligomers," *J. Org. Chem.*, **72**, 342-347, (2007).

51 M. Alb, P. Enohnyaket, M. F. Drenski, R. Shunmugam, G. N. Tew, W. F. Reed, "Quantitative Contrasts in the Copolymerization of Acrylate- and Methacrylate-Based Comonomers," *Macromolecules*, **39**, 8283-8292, (2006).0

50 *S. H. Seo, G. N. Tew, J. Y. Chang, "Lyotropic Columnar Liquid Crystals Based on Polycatenar 1H-Imidazole Amphiphiles and Their Assembly into Bundles at the Surface of Silicon," *Soft Matter*, **2**, 886-891, (2006).

49 G. N. Tew, D. Clements, H. Tang, L. Arnt, R. Scott, "Antimicrobial Activity of an Abiotic Host Defense Peptide Mimic," *Biochim. Biophys. Acta.*, **1758**, 1387-1392, (2006). **Invited article.*

48 Y. Ishitsuka, L. Arnt, M. Ratajczek, S. Frey, J. Majewski, K. Kjaer, G. N. Tew, K.Y C. Lee, "Amphiphilic Poly(Phenylene Ethynylene)s Can Mimic Antimicrobial Peptide Membrane Disordering Effect by Membrane Insertion," *J. Am. Chem. Soc.*, **128**, 13123-13129, (2006).

47 *S. H. Seo, J-Y. Chang, G. N. Tew, "Self-Assembled Vesicles from an Amphiphilic *Ortho* Phenylene Ethynylene Macrocycle," *Angew. Chem. Int. Ed.*, **45**, 7526-7530, (2006). `Highlighted with frontispiece.`

46 *S. K. Agrawal, N. Sanabria-DeLong, J. M. Coburn, G. N. Tew, S. R. Bhatia, "Novel Drug Release Profiles from Micellar Solutions of PLA-PEO-PLA Triblock Copolymers," *J. Cont. Rel.*, **112**, 64-71 (2006).

45 S. K. Agrawal, N. Sanabria-DeLong, G. N. Tew, S. R. Bhatia, "Rheological Characterization of Biocompatible Associative Polymer Hydrogels with Crystalline and Amorphous Endblocks," *J. Mater. Res.*, **21**, 2118-2125, (2006).

44 *K. Nüsslein, L. Arnt, J. Rennie, C. Owens, G. N. Tew, "Broad Spectrum Antibacterial Activity by a Novel Abiogenic Peptide Mimic," *Microbio.*, **152**, 1913-1918, (2006).

43 *H. Tang, R. Doerksen, T. V. Jones, M. Klein, G. N. Tew, "Biomimetic Facially Amphiphilic Antibacterial Oligomers with Intramolecular Hydrogen Bonding," *Chem. Bio.*, **13**, 427-435, (2006).

42 *S. H. Seo, H. Seyler, J. O. Peters, T. V. Jones, T. H. Kim, J-Y. Chang, and G. N. Tew, Liquid Crystalline Order from *Ortho*-Phenylene Ethynylene Macrocycles," *J. Am. Chem. Soc.*, **128**, 9264-9265, (2006).

41 *T. Kim. L. Arnt, E. Atkins, G. N. Tew, "Self-Assembled Structures with Liquid Crystalline Order in Aqueous Solution by Patterning *Meta*-Poly(Phenylene ethynylene)s," *Chem. Eur. J.*, **12**, 2423-2427, (2006). Highlighted with frontispiece.

40 *X Chen, H. Tang, J. Wang, M. A. Even, G. N. Tew, Z. Chen, "Observing a Molecular Knife at Work," *J. Am. Chem. Soc.*, **128**, 2711-2714, (2006). Selected for "Research Highlights," *Nature*, **439**, 895, (2006).

39 *L. Arnt, J. Rennie, S. Linser, R. Willumeit, G. N. Tew, "Membrane Activity of Biomimetic Facially Amphiphilic Antibiotics," *J. Phys. Chem. B.*, **110**, 3527-3532, (2006).

38 *N. Sanabria-DeLong, S. K. Agrawal, S. R. Bhatia, G. N. Tew, "Controlling Hydrogel Properties by Crystallization of Hydrophobic Domains," *Macromolecules*, **39**, 1308-1310, (2006).

37 *T. V. Jones, M. M. Slutsky, R. Laos, T. F. A. de Greef, G. N. Tew, "Solution ^{1}H NMR Confirmation of Folding in Short *o*-Phenylene Ethynylene Oligomers," *J. Am. Chem. Soc.*, **127**, 17235-17240, (2005).

36 *R. Shunmugam, G. N. Tew, "Efficient Route to Well-Characterized Homo, Block, and Statistical Polymers Containing Terpyridine in the Side Chain," *J. Polym. Sci.: Polym. Chem. A.*, **43**, 5831-5843, (2005).

35 *R. Shunmugam, G. N. Tew, "Unique Emission from Polymer Based Lanthanide Alloys," *J. Am. Chem. Soc.*, **127**, 13567-13572, (2005).

34 *G. N. Tew, N. Sanabria-DeLong, S. K. Agrawal, S. R. Bhatia, "New Properties from PLA-PEO-PLA Hydrogels", *Soft Matter*, **1**, 253-258, (2005). *Invited article*, Highlighted on the Cover.

33 *J. Rennie, L. Arnt, H. Tang, K. Nüsslein, G. N. Tew, "Simple Oligomers as Antimicrobial Peptide Mimics," *J. Indus. Microbio. Biotechnol.*, **32**, 296-300, (2005).

32 *H. Tang, R. Doerksen, G. N. Tew, "Synthesis of Urea Oligomers and Their Antibacterial Activity," *Chem. Comm.*, **12**, 1537-1539, (2005).

31 *G. N. Tew, K. Aamer, R. Shunmugam, "Incorporation of Terpyridine into the Side Chain of Copolymers to Create Multi-Functional Materials," *Polymer*, **46**, 8440-8447, (2005).

30 *R. Breitenkamp, L. Arnt, G. N. Tew, "Facially Amphiphilic Phenylene Ethynylenes," *Polym. Adv. Tech.*, **16**, 189-194, (2005).

29 D. Shin, K. Shin, K. Aamer, G. N. Tew, T. P. Russell, J. H. Lee, J. Y. Jho, A "A Morphological Study of a Semicrystalline Poly(L-Lactic acid-b-Ethylene oxide-b-L-Lactic acid), Triblock Copolymer," *Macromolecules*, **38**, 104-109, (2005).

28 *M. F. Ilker, K. Nüsslein, G. N. Tew, E. B. Coughlin, "Tuning the Hemolytic and Antibacterial Activities of Amphiphilic Polynorbornene Derivatives," *J. Am. Chem. Soc.*, **126**, 15870-15875, (2004).

27 *L. Arnt, K. Nüsslein, G. N. Tew, "Non-Hemolytic Abiotic Mimics of Host Defense Peptide Based on Phenylene Ethynylene," *J. Polym. Sci.: Polym. Chem. A.*, **42**, 3860-3864, (2004). Highlighted on the Cover.

26 *K. Aamer, G. N. Tew, "Synthesis of Terpyridine-Containing Polymers with Blocky Architectures," *Macromolecules*, **37**, 1990-1993, (2004).

25 *R. B. Breitenkamp, G. N. Tew, "Aggregation of Poly(*p*-phenylene ethynylene)s Containing Nonpolar and Amine Side Chains," *Macromolecules*, **37**, 1163-1165, (2004).

24 *L. Arnt, G. N. Tew, "Conformational Changes of Facially Amphiphilic Poly(phenylene ethynylene)s in Aqueous Solution," *Macromolecules*, **37**, 1283-1288, (2004).

23 *K. Aamer, H. A. Sardina, S. R. Bhatia, G. N. Tew, "Rheological Studies of PLLA-PEO-PLLA Triblock Copolymer Hydrogels," *Biomaterials*, **25**, 1087-1093, (2004).

22 *R. A. Blatchly, G. N. Tew, "Theoretical Study of Helix Formation in Substituted Phenylene Ethynylene Oligomers," *J. Org. Chem.*, **68**, 8780-8785, (2003).

21 *T. V. Jones, R. A. Blatchly, G. N. Tew, "Synthesis of Alkoxy-Substituted *Ortho*-Phenylene Ethynylene Oligomers," *Org. Lett.*, **5**, 3297-3299, (2003).

20 *L. Arnt, G. N. Tew, "Cationic Facially Amphiphilic Poly(phenylene ethynylene)s Studied at the Air-Water Interface," *Langmuir*, **19**, 2404-2408, (2003).

19 *D. J. Stigers, G. N. Tew, "Poly(3-hydroxyalkanoate)s Functionalized with Carboxylic Acid Groups in the Side Chain," *Biomacromolecules*, **4**, 193-195, (2003).

18 *K. J. Calzia, G. N. Tew, "Methacrylate Polymers Containing Metal Binding Ligands For Use in Supramolecular Materials: Random Copolymers Containing Terpyridines," *Macromolecules*, **35**, 6090-6093, (2002)./

17 *L. Arnt, G. N. Tew, "New Poly(phenylene ethynylenes) with Cationic, Amphiphilic
Structure," *J. Am. Chem. Soc.* **124**, 7664-7665, (2002).

(b) Undergraduate, graduate, post-doctoral publications

16 D. A. Harrington, H. Benna, G. N. Tew, R. C. Claussen, S. I. Stupp, "Supramolecular Fluorophores for Biological Studies: Phenylene Vinylene - Amino Acid Amphiphiles," *Chem. Bio*., **12**, 1085-1091, (2005). Highlighted on the Cover.

15 P. V. Braun, P. Osenar, M. Twardowski, G. N. Tew and S. I. Stupp, "Macroscopic Nano-Templating of Semiconductor Films with Hydrogen Bonded Lyotropic Liquid Crystals," *Adv. Funct. Mat*., **15**, 1745-1750, (2005).

14 R. J. Doerksen, B. Chen, D. Liu, G. N. Tew, W. F. Degrado, M. L. Klein, "Controlling the Conformation of Arylamides: Computational Studies of Intramolecular Hydrogen Bonds Between Amides and Ethers or Thioethers," *Chem: Eur. J.*, **10**, 5008-5016 (2004).

13 B. M. Rabatic, M. U. Pralle, G. N. Tew, S. I. Stupp, "Nanostructured Semiconductors Templated by Cholesteryl-Oligo(Ethylene Oxide) Amphiphiles," *Chem. Mater.*, **15**, 1249-1255, (2003).

12 G. N. Tew, D. Lui, B. Chen, R. Doerksen, J. Kaplan, P. J. Carroll, M. L. Klein, W. F. Degrado, "De Novo Design of Biomimetic Antimicrobial Polymers," *Proc. Natl. Acad. Sci., U.S.A.*, **99**, 5110-5114, (2002).

11 S. I. Stupp, M. U. Pralle, G. N. Tew, E. R. Zubarev: "Self Assembly of Organic Nano-Objects into Functional Materials," *MRS Bulletin*, **25**, 42-48, (2000).

10 M. U. Pralle, K. Urayama, G. N. Tew, D. Neher, G. Wegner, S. I. Stupp: "Piezoelectricity Observed in Polar Supramolecular Materials," *Angew. Chem. Int. Ed.* **39**, 1486-1489 (2000).

9 G. N. Tew, M. U. Pralle, S. I. Stupp, "Supramolecular Materials Containing Electro-Active Groups," *Angew. Chem. Int. Ed.*, **39**, 517-521 (2000).

8 G. N. Tew, M. U. Pralle, S. I. Stupp: "Supramolecular Materials From Triblock Rodcoil Molecules Containing Phenylene Vinylene," *J. Am. Chem. Soc.* **121**, 9852-9866 (1999).

7 J. J. Hwang, H.-A. Klok, R. C. Claussen, S. Iyer, G. N. Tew, L.-S. Li, S. I. Stupp: "Self-Assembling Biomaterials," *Trans. Soc. Biomat.* **22**, 229-231 (1999).

6 S. I. Stupp, M. Keser, G. N. Tew: "Functionalized Supramolecular Materials," *Polymer*, **39**, 4505-4509 (1998).

5 G. N. Tew, L. M. Li, S. I. Stupp: "Polar and Luminescent Supramolecular Films," *J. Am. Chem. Soc.*, **120**, 5601-5602 (1998).

4 D. A. Shultz, A. K. Boal, D. J. Driscoll, G. T. Farmer, M. G. Hollomon, J. R. Kitchin, D. B. Miller, G. N. Tew: "Preparation of Paramagnetic Ligands for Coordination-Complexes and Networks With Interesting Magnetic Properties," *Mol. Cryst. Liq. Cryst.*, **305**, 303-307 (1997).

3 D. A. Shultz, A. K. Boal, D. J. Driscoll, J. R. Kitchin, G. N. Tew: "Preparation and Characterization of a Bis-Semiquinone: A Bidentate Dianion Biradical," *J. Org. Chem.*, **60**, 3578-3579 (1995).

2 D. A. Shultz, G. N. Tew: "Electrochemical Oxidation of a Galvinol-Substituted Alkanethiol," *J. Org. Chem.*, **59**, 6159-6160 (1994).

1 D. A. Shultz, D. A. Knox, L. W. Morgan, K. Sandberg, G. N. Tew: "Preparation of *meso*-Tetra(4-galvinolphenyl)porphyrin-A Building Block for Molecular Magnetic Materials," *Tetrahedron Lett.*, **34**, 25, 3975-3977 (1993).

Peer Reviewed Articles Highlighted on the Cover or as a Frontispiece

1. *K. Lienkamp, G. N. Tew, "Synthetic Mimics of Antimicrobial Peptides – A Versatile Ring Opening Metathesis Polymerization Based Platform for the Synthesis of Selective Antibacterial and Cell-Penetrating Polymers," *Chem Eur J*, **15**, 11784-11800, (2009). Highlighted as a frontispiece.
2. *G. J. Gabriel, G. N. Tew, "Conformationally Rigid Proteomimetics: A Case Study in Designing Antimicrobial Aryl Oligomers," *Org Biomol Chem*, **6**, 417-423, (2008). Highlighted as a frontispiece.
3. *R. Shunmugam, G. N. Tew, "Polymers that Contain Ligated Metals in their Side Chain: Building a Foundation for Functional Materials in Opto-Electronic Applications with an Emphasis on Lanthanide Ions," *Macrol Rapid Comm*, **29**, 1355-1362, (2008). Feature Article: Highlighted on the Cover.
4. *T. V. Jones, M. M. Slutsky, G. N. Tew, "Extending Helicity-Capturing the Helical Character of Longer *ortho*-Phenylene Ethynylene Oligomers," *New J Chem*, **32**, 676-679, (2008). Highlighted on the Cover.
5. *S. H. Seo, J-Y. Chang, G. N. Tew, "Self-Assembled Vesicles from an Amphiphilic *ortho*-Phenylene Ethynylene Macrocycle," *Angew Chem Int Ed*, **45**, 7526-7530, (2006). Highlighted with frontispiece.
6. 5. *T. Kim. L. Arnt, E. Atkins, G. N. Tew, "Self-Assembled Structures with Liquid Crystalline Order in Aqueous Solution by Patterning *Meta*-Poly(phenylene ethynylene)s," *Chem Eur J*, **12**, 2423-2427, (2006). Highlighted with frontispiece.
7. *G. N. Tew, N. Sanabria-DeLong, S. K. Agrawal, S. R. Bhatia, "New Properties from PLA-PEO-PLA Hydrogels", *Soft Matter*, **1**, 253-258, (2005). **Invited article*, Highlighted on the Cover.
8. D. A. Harrington, H. Benna, G. N. Tew, R. C. Claussen, S. I. Stupp, "Supramolecular Fluorophores for Biological Studies: Phenylene Vinylene - Amino Acid Amphiphiles," *Chem Bio*, **12**, 1085-1091, (2005). Highlighted on the Cover.
9. *L. Arnt, K. Nüsslein, G. N. Tew, "Non-Hemolytic Abiotic Mimics of Host Defense Peptide Based on Phenylene Ethynylene," *J Polym Sci: Polym Chem*, **42**, 3860-3864, (2004). Highlighted on the Cover.

JOURNAL NAME	5 YEAR IMPACT FACTOR	REFERENCE (Vol, Pg Nm, Yr)	TIMES CITED	DATE UPDATED
Accts Chem Res	22.758	**43**, 30-39 (2010)	184	07/12/17
		46, 2977-2987 (2013)	23	07/12/17

ACS Macro Letters	6.073	**1,** 574-579 (2012)	23	07/12/17
		1, 737-741 (2012)	16	07/12/17
		2, 1011-1015 (2013)	6	07/12/17
		3, 453-457 (2014)	11	07/12/17
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ACS Nano	14.194	**8**, 12376-12385 (2014)	23	07/12/17
Adv Func Mtrls	12.362	**15**, 1745-1750 (2005)	29	07/12/17
		19, 689-695 (2009)	18	07/12/17
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		45, 7526-7530 (2006)	103	07/12/17
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		1858, 1443-1450 (2016)	3	07/12/17
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		9, 2784-2791 (2008)	40	07/12/17
		9, 2805-2810 (2008)	60	07/12/17
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		13, 584-588 (2012)	49	07/12/17
		13, 1233-1239 (2012)	19	07/12/17
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		16, 3172-3179 (2015)	9	07/12/17

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		17, 1969-1977 (2016)	6	07/12/17
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		13, 427-435 (2006)	49	07/12/17
Chem Comm	6.238	**12**, 1537-1539 (2005)	56	07/12/17
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ChemistrySelect		**1**, 6146-6150 (2016)	1	07/12/17
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Curr Med Chem	3.508	**18**, 5676-5686 (2011)	16	07/12/17
Curr Top Med Chem		**17**, 576-589 (2017)	1	07/12/17
Curr Opin BioTech	8.681	**19**, 620-627 (2008)	89	07/12/17
Eur J Immunol	4.208	**46**, 1034-1034 (2016)*	0	07/12/17

J Am Chem Soc	11.726	**120**, 5601-5602 (1998)	53	07/12/17
		121, 9852-9866 (1999)	94	07/12/17
		124, 7664-7665 (2002)	116	07/12/17
		126, 15870-15875 (2004)	201	07/12/17
		127, 13567-13572 (2005)	83	07/12/17
		127, 17235-17240 (2005)	42	07/12/17
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		134, 4493-4496 (2012)	76	07/12/17
		134, 11088-11091 (2012)	31	07/12/17
		134, 14534-14541 (2012)	23	07/12/17
		134, 19207-19216 (2012)	26	07/12/17
		135, 15994-15997 (2013)	27	07/12/17
J Controlled Rel	8.450	**112**, 64-71 (2006)	84	07/12/17
		254, 131-136 (2017)	0	07/12/17
J Ind Microbiol Biotechnol	2.624	**32**, 296-300 (2005)	38	07/12/17
J Inorg Organomet Polym Mtrls	1.332	**23**, 89-94 (2013) *	6	07/12/17
J Mater Chem		**5**, 1400-1405 (2017)	0	07/12/17
J Mater Res	1.833	**21**, 2118-2125 (2006)	16	07/12/17
J Med Chem	5.896	**54**, 2241-2254 (2011)	24	07/12/17
J Org Chem	1.914	**59**, 6159-6160 (1994)	11	07/12/17

		60, 3578-3579 (1995)	28	07/12/17
		68, 8780-8785 (2003)	38	07/12/17
		72, 342-347 (2007)	11	07/12/17
J Phys Chem B	3.177	**110**, 3527-3532 (2006)	46	07/12/17
		112, 3495-3502 (2008)	55	07/12/17
		113, 11179-11185 (2009)	102	07/12/17
		115, 8474-8480 (2011)	3	07/12/17
J Polym Sci Part A- Polym Chem	2.598	**42**, 3860-3864 (2004)	86	07/12/17
		43, 5831-5843 (2005)	59	07/12/17
		45, 1109-1121 (2007)	24	07/12/17
		45, 2601-2608 (2007)	25	07/12/17
		45, 5618-5625 (2007)	47	07/12/17
		46, 2640-2648 (2008)	35	07/12/17
		46, 6672-6676 (2008)	18	07/12/17
		47, 1266-1273 (2009)	21	07/12/17
		47, 3949-3956 (2009)	12	07/12/17
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		23, 5039-5044 (2008)	37	07/12/17
		24, 12489-12495 (2008)	30	07/12/17
		24, 13148-13154 (2008)	26	07/12/17
		25, 1060-1067 (2009)	71	07/12/17
		26, 12472 (2010)	1	07/12/17
		26, 17330-17338 (2010)	7	07/12/17
		28, 666-675 (2012)	25	07/12/17
		28, 12134-12139 (2012)	18	07/12/17
		32, 5946-5954 (2016)	0	07/12/17
Macromolecules	5.728	**35**, 6090-6093 (2002)	72	07/12/17
		37, 1283-1288 (2004)	53	07/12/17
		37, 1163-1165 (2004)	28	07/12/17
		37, 1990-1993 (2004)	41	07/12/17
		38, 104-109 (2005)	61	07/12/17
		39, 1308-1310 (2006)	27	07/12/17
		39, 8283-8292 (2006)	19	07/12/17
		40, 2737-2744 (2007)	43	07/12/17
		40, 7864-7873 (2007)	18	07/12/17

		41, 1774-1784 (2008)	42	07/12/17
		41, 2022-2029 (2008)	24	07/12/17
		41, 4173-4179 (2008)	36	07/12/17
		41, 8436-8440 (2008)	31	07/12/17
		42, 6716-6722 (2009)	4	07/12/17
		43, 4557-4561 (2010)	35	07/12/17
		43, 10246-10252 (2010)	9	07/12/17
		44, 134-139 (2011)	4	07/12/17
		44, 5436-5442 (2011)	11	07/12/17
		45, 6104-6110 (2012)	24	07/12/17
		46, 9279-9287 (2013)	13	07/12/17
		49, 1154-1162 (2016)	0	07/12/17
Macromol Chem Phys	2.419	**209**, 516-524 (2008)	64	07/12/17
Macromol Mater Eng	2.903	**300**, 802-809 (2015)	12	07/12/17
Macromol Rapid Comm	4.277	**29**, 1355-1362 (2008)	42	07/12/17
		31, 784-793 (2010)	71	07/12/17
Mat Sci Eng R-Reports	24.745	**57**, 28-64 (2007)	118	07/12/17
Microbio-SGM	2.599	**152**, 1913-1918 (2006)	22	07/12/17
Mol Cryst Liq Cryst	0.666	**305**, 303-307 (1997)	24	07/12/17
		317, 1-1 (1998)	0	07/12/17
Mol Ther	6.828	**21**, 201-209 (2013)	23	07/12/17
		24, 2118-2130 (2016)	1	07/12/17
MRS Bull	6.076	**25**, 42-48 (2000)	45	07/12/17
Nat Commun	13.092	**2**, 482, (2011)	26	07/12/17
New J Chem	3.103	**32**, 670-675 (2008)	16	07/12/17
		32, 676-679 (2008)	12	07/12/17
		34, 307-312, (2010)	10	07/12/17
Org Lett	5.836	**5**, 3297-3299 (2003)	50	07/12/17

		10, 4393-4396 (2008)	11	07/12/17
Org Biomol Chem	3.235	**6**, 417-423 (2008)	22	07/12/17
		10, 40-42 (2012)	7	07/12/17
Polym Advan Technol	1.901	**16**, 189-194 (2005)	13	07/12/17
		18, 940-945 (2007)	51	07/12/17
		19, 596-601 (2008)	25	07/12/17
		27, 946-954 (2016)	1	07/12/17
Polymer	3.740	**39**, 4505-4509 (1998)	15	07/12/17
		46, 8440-8447 (2005)	48	07/12/17
		49, 1761-1769 (2008)	20	07/12/17
Polym Chem	5.123	**2**, 114-119 (2011)	9	07/12/17
		7, 7514-7521 (2016)	2	07/12/17
Polym Int	2.135	**57**, 6-10 (2008)	36	07/12/17
P Natl Acad Sci USA	10.414	**99**, 5110-5114 (2002)	272	07/12/17
		105, 20595-20600 (2008)	54	07/12/17
React Funct Polym	2.911	**80**, 40-47 (2014)	10	07/12/17
RSC Adv	3.257	**5**, 11284-11292 (2015)	10	07/12/17
Soft Matter	3.957	**1**, 253-258 (2005)	38	07/12/17
		2, 886-891 (2006)	17	07/12/17
		3, 763-767 (2007)	35	07/12/17
		7, 1378-1385 (2009)	5	07/12/17
		10, 1905-1916, (2014)	13	07/12/17
Tetrahedron Lett	2.026	**34**, 25, 3975-3977 (1993)	8	07/12/17
		48, 6839-6844 (2007)	26	07/12/17

**Special Issue*

Patents (^indicates licensed by a company)

1. Inventors: Tew, G. N., Gabriel, G. J. *Protein Transduction Domains Mimics*, WO 2011163637 A2. Available from: Google Advanced Patent Search. [12/29/11].

2. Inventors: DeGrado, W. F., Klein, M. L., Tew, G. N. *Facially Amphiphilic Polymers as Anti-infective Agents*, European Patent EP2289524 A1. Available from: Google Advanced Patent Search. [3/2/11].

3. Inventors: DeGrado, W. F., Klein, M. L., Tew, G. N. *Facially Amphiphilic Polymers as Anti-Infective Agents*, European Patent EP1372674 B1. Available from: Google Advanced Patent Search. [5/25/11].

4. Inventors: Tew, G. N., Madkour, A. E., Alfred, S. F., King, P. P., Colak, S. *Water-Soluble and Water-Insoluble, Ring Opening Metathesis Polymerization Products, Monomers and Related Methods*, U. S. Patent US20130072650 A1. Available from: Google Advanced Patent Search. [3/21/13].

5. Inventors: Sungwook, C., DeGrado, W. F., Klein, M. L., Liu, D., Tew, G. N., Yuan, J. *Facially Amphiphilic Polymers and Oligomers and Uses Thereof*, European Patent EP 1608313 A2. Available from: Google Advanced Patent Search. [12/28/05].

6. Inventors: DeGrado, W. F., Klein, M. L., Liu, D., Tew, G. N. *Facially Amphiphilic Polyaryl and Polarylalkynyl Polymers and Oligomers and Uses Thereof*, European Patent EP 2468711 A3. Available from: Google Advanced Patent Search. [9/19/02].

7. Inventors: Bhatia, S., Tew, G. N. *Poly (lactic acid) Copolymer Hydrogels and Related Methods of Drug Delivery*, WO 2006007402 A2. Available from: Google Advanced Patent Search. [1/19/06].

8. Inventors: Arnt, L., DeGrado, W. F., Tew, G. N. *Facially Amphiphilic Polymers and Oligomers, Compositions Thereof, and Use Thereof in Methods of Treating Cancer*, European Patent EP2433628A1. Available from: Google Advanced Patent Search. [3/2/12].

9. Inventors: Tew, G. N., Ilker, F. M., Coughlin, B. E. *Amphiphilic Polynorbornene Derivatives and Methods of Using the Same*, WO2006021001 A2. Available from: Google Advanced Patent Search. [2/23/06]

10. Inventors: Tew, G. N., Madkour, A. E., Lienkamp, K., Musante, A. M. *Antimicrobial Polymers*, WO2010144386 A3. Available from: Google Advanced Patent Search. [5/26/11].

11. Inventors: DeGrado, W. F., Klein, M. L., Tew, G. N. *Facially Amphiphilic Polymers as Anti-Infective Agents*, WO2002072007A3. Available from: Google Advanced Patent Search. [5/22/03].

12. Inventors: DeGrado, W. F., Klein, M. L., Liu, D., Tew, G. N. *Facially Amphiphilic Polyaryl and Polyarylalkynyl Polymers and Oligomers and Uses Thereof*, WO2005072246 A3, Available from: Google Advanced Patent Search. [6/29/06].

13. Inventors: Choi, S., DeGrado, W. F., Klein, M. L., Liu, D., Tew, G. N., Yuan, J. *Facially Amphiphilic Polymers and Oligomers and Uses Thereof*, WO2004082634 A3. Available from: Google Advanced Patent Search. [11/10/05].

14. Inventors: DeGrado, W. F., Liu, D., Tew, G. N., Klein, M. L., Yuan, J., Choi, S. *Facially Amphiphilic Polymers and Oligomers and Uses Thereof*, European Patent EP2471527 A3. Available from: Google Advanced Patent Search. [12/12/12].

15. Inventors: Bhatia, S., Tew, G. N. *Poly (lactid acid) Copolymer Hydrogels and Related Methods of Drug Delivery*, European Patent EP1765285 A2. Available from: Google Advanced Patent Search. [3/28/07].

16. Inventors: DeGrado, W. F., Liu, D., Tew, G. N., Klein, M. L., Yuan, J., Choi, S. *Facially Amphiphilic Polymers and Oligomers and Uses Thereof*, European Patent EP2471526 A3. Available from: Google Advanced Patent Search. [12/12/12].

17. Inventors: Tew, G. N., Ilker, F. M., Coughlin, B. E. *Amphiphilic Polynorbornene Derivatives and Methods of Using the Same*, European Patent EP1793838 A2. Available from: Google Advanced Patent Search. [3/13/07].

18. Inventors: Tew, G. N., Madkour, A. E., Alfred, S. F., King, P. P., Colak, S. *Water-Soluble and Water Insoluble, Ring Opening Metathesis Polymerization Products, Monomers and Related Methods*, U. S. Patent US8329927 B2. Available from: Google Advanced Patent Search. [12/11/12].

19. Inventors: DeGrado, W. F., Liu, D., Tew, G. N., Yuan, J. *Facially Amphiphilic Polymers as Anti-infective Agents*, European Patent EP1372551 B1. Available from: Google Advanced Patent Search. [9/17/08].

20. Inventors: Tew, G. N., Shunmugam, R. *Terpyridine-substituted Compounds and Related Selective Detection Methods*, U. S. Patent US8431406 B2. Available from: Google Advanced Patent Search. [4/30/13].

21. Inventors: Lienkamp, K., Madkour, A. E., Musante, A. M., Tew, G. N. *Antimicrobial Polymers*, European Patent EP2440540A2. Available from: Google Advanced Patent Search. [4/18/12].

22. Inventors: AL-Badri, Z., Russell, T. P., Shunmugam, R., Tew, G. N. *Ferromagnetic Block Polymers and Related Methods*, U. S. Patent US20110064944A1. Available from: Google Advanced Patent Search. [3/17/11].

Book Chapters:

1. K. Lienkamp, A. E. Madkour, G. N. Tew: Antibacterial Peptidomimetics: Polymeric Synthetic Mimics of Antimicrobial Peptides in *2013-Polymer Composites–Polyolefin Fractionation–Polymeric Peptidomimetics-Collagens*, "Advances in Polymer Science," A. Abe, H. H. Kausch, M. Moller, H. Pasch, Eds., Vol. 251, pp. 141-172, (2013), DOI: 10.1007/12_2010_85.
2. S. I. Stupp, G. N. Tew, C. M. Whitaker: Programming Molecules to Form Supramolecular Materials in *Hyper-Structured Molecules I: Chemistry, Physics and Applications,* Gordon and Breach, H. Sasabe, Eds., invited contribution, 9 (1999).
3. G. N. Tew, S. I. Stupp: Multifunctional Supramolecular Materials in *Functional Polymers: Modern Synthetic Methods and Novel Structures*, ACS Symp. Ser., A. O. Patil, D. N. Schulz, and B. Novak, Eds., 218 (1998).
4. S. I. Stupp, M. U. Pralle, P. V. Braun, G. N. Tew, P. Osenar, L. S. Li: Controlling Morphology through Self Assembling Supramolecular Materials: A Synthetic Route to Quantum Dots, Proc. of the 4th Inter. Symp. on Quantum Confinement: Nanoscale Materials, Devices, and Systems, Electrochem. Soc., M. Cahay, ed., 11, 3 (1997).

At UMass-Amherst

5. *K. Lienkamp, A. E. Madkour, G. N. Tew, "Antibacterial Peptidomimetics: Polymeric Synthetic Mimics of Antimicrobial Peptides," in *Advances in Polymer Science*, A. Abe, H. H. Kausch, M. Moller, H. Pasch, Eds., Vol. 251, 141-172, (2013).
6. S. R. Bhatia, G. N. Tew: PLA-PEO-PLA Hydrogels: Chemical Structure, Self-Assembly and Mechanical Properties in *Degradable Polymers and Materials: Principles and Practice*, ACS Div of Polym Chem, K. Kemani, C. Scholz, Eds., 114, (2012).
7. *M. Lis, G. N. Tew, 9.16 Polymer-Membrane Interactions in *Polymer Science: A Comprehensive Reference*, Krzysztof Matyjaszewski and Martin Möller, Eds. Vol. 9, 289-315, (2012).
8. *M. Firat Ilker, G. N. Tew, E. Bryan Coughlin, Amphiphilic Polymers with Potent Antibacterial Activity, in *Antiterrorism and Homeland Defense: Polymers and Materials*, J. G. Reynolds, G. E. Lawson, C. J. Koester, Eds. ACS Symp. Ser., No. 980, (2008).
9. *S. K. Agrawal, N. Sanabria-DeLong, K. Aamer, H. A. Sardina, S. R. Bhatia, G. N. Tew, Triblock PLLA-PEO-PLLA Hydrogels: Structure and Mechanical Properties, in *Polymeric Drug Delivery II: Polymeric Matrices and Drug Particle Engineering*, S. Svenson, Ed. ACS Symp. Ser., 102-119, (2006).
10. *G. N. Tew, K. Aamer, R. Shunmugam, Novel Block Copolymers with Terpyridine Pendant Groups, in *Metal-Containing and Metallo-Supramolecular Polymers and Materials*, G.R. Newkome, I. Manners, U.S. Schubert, Eds. ACS Symp. Ser., 126-140, (2006).

11. *K. Aamer, R. Shunmugam, G. N. Tew, Supramolecular Block Copolymers Containing Metal-Ligand Binding Sites: From Synthesis to Properties, in *Block Copolymer in Nanoscience*, M. Lazzari, S. Lecommandoux, and G. Liu, Eds. Wiley-VCH, 169-189, (2006).
12. *M. M. Slutsky, R. A. Blatchly, G. N. Tew, Foldamers: Nanoscale Shape Control at the Interface between Small Molecules and High Polymers, in *Physical Properties of Polymers Handbook*, J. E. Marks, Ed. Springer, 699-714, (2006).
13. *N. Sanabria-DeLong, K. A. Aamer, S. K. Agrawal, S. R. Bhatia, G. N. Tew: PLA-PEO-PLA Triblock Copolymers: Synthesis and Thermal Properties, in *Degradable Polymers and Materials – Principles and Practice*, K. Khemani and C. Scholz, Eds. ACS Symp. Ser., No. 939, (2006).

Published Meeting Abstracts: The Polymer Chemistry and Polymer Materials: Science and Engineering Divisions of the American Chemical Society publish two-page extended abstracts for all invited or contributed oral and poster presentations at the Spring and Fall National Meetings of the Society. These "pre-prints" are *not* peer-reviewed prior to publication; however they are intended to serve as a pre-publication notice of work that typically will appear in the literature in the next six to twelve months. The authors, titles, and keywords of these pre-prints are listed in most major scientific database archives; however no citation record is kept by ISI for meeting abstracts. The pre-prints are very important to the industrial members of the Divisions. In addition, the pre-prints, which are required in order to present at the ACS meeting in these two Divisions, document participation. In 2013, the divisions eliminated the pre-print requirements; POLY replaced it with graphical abstracts.

LIST OF PRESENTATIONS

-Presentation Statistics-

1. Invited Research Talks (since 2002) – 174
2. Contributed Research Talks – 65

Invited Lectures: (since 2002)

2017

- "Metal Containing Polymers for Anion Conductivity," 254th ACS Fall Meeting, Washington, DC, Aug 2017.
- "Protein Mimics Enable Antibody Delivery into T-cells," 254th ACS Fall Meeting, Washington, DC, Aug 2017.
- "Building Simple Synthetic Polymers of Membrane-active Peptides," IMAP 2017, Copenhagen, Denmark, Aug 2017
- "Modulating the Hydrophobicity of Cell Penetrating Peptide Mimics for Binding and Intracellular Delivery of Protein Cargo," 253rd ACS Spring Meeting, San Francisco, CA, Mar 2017.
- "Delivering Antigen to Monocytes using Protein Transduction Domain Mimics," 253rd ACS Spring Meeting, San Francisco, CA, Mar 2017.

- "Going Beyond Ruthenium in Metal-cation-based Anion Exchange Membranes," 253rd ACS Spring Meeting, San Francisco, CA, Mar 2017.
- "Conductivity and Mechanics in Self-Organized Networks," 253rd ACS Spring Meeting, San Francisco, CA, Mar 2017.
- "Protein Transduction Domain Mimics from Simple Polymer Scaffolds," 253rd ACS Spring Meeting, San Francisco, CA, Mar 2017.

2016

- "Designing Simply Polymer Mimics of Proteins: From Antibiotics to T-cell Delivery," Seminar in Biochemistry, Biophysics & Biodesign Fall 2016, CUNY-ARSC & The City College of New York, NY, Nov 2016.
- "Chemically Rich Macromolecules: Novel Networks and Protein Mimics," Materials Science & Engineering Department Fall Seminar Series, Drexel University, Nov 2016.
- "Chemically Rich Molecules for Drug Delivery into T-Cells," PC2016, Changchun, China, Sep 2016.
- "Designing Synthetic Mimics of Protein Transduction Domains: New, Effective Carriers for Hard to Transfect Cell Types," 252nd ACS Fall Meeting, Phila., PA, Aug 2016.
- "Telechelic Polymers for Thiolene Initiated Co-networks and Multiblock Copolymers," 252nd ACS Fall Meeting, Phila., PA, Aug 2016.
- "Click' Reactions for Producing Advanced Materials," 251th ACS Spring Meeting, San Diego, CA, Mar 2016.
- Designing Simple Polymers with Protein-like Activity," Golden Gate Polymer Forum, Mountain View, CA, Mar 2016.
- "Designing Polymers with Protein-like Activity: Novel Networks and Cell Penetrating Mimics," International Conference in Biomolecular Engineering 2016, Singapore, Jan 2016.

2015

- "Cyclic ROMP Polymers and Other Advanced Materials from Topological Macromolecules," Pacifichem 2015, International Chemical Congress of Pacific Basin Societies, Honolulu, HI, Dec. 2015.
- "Building Protein Mimics with Robust Cellular Delivery Activity," Pacifichem 2015, International Chemical Congress of Pacific Basin Societies, Honolulu, HI, Dec. 2015.
- "Wide Bicontinuous Compositional Windows from Co-networks made with Telechelic Macromonomers," Pacifichem 2015, International Chemical Congress of Pacific Basin Societies, Honolulu, HI, Dec. 2015.
- "Polymers Containing Metal-ligands in their Side Chains: Coupling Organic Macromolecules to Property Rich Inorganic Metal Ions," Pacifichem 2015, International Chemical Congress of Pacific Basin Societies, Honolulu, HI, Dec. 2015.
- "Drug Delivery and Bio-Inspired Materials," 14th Pacific Polymer Conference, Kauai, HI, Dec 2015.
- "Designing Simple Polymers with Protein-like Activity: From Cell Penetrating Peptide Mimics to Resilin-inspired Co-continuous Networks," Fall 2015 RT-MRSEC Seminar Series, Duke University, Research Triangle, NC, Nov 2015.
- "Strategies for Amphiphilic Co-networks with Wide Bicontinuous Regions and High Resilience," International Symposium on Amphiphilic Polymers, Networks, Gels and Membranes, Budapest, Hungary, Aug 2015.

- "From Synthetic Mimics of Antimicrobial Peptides to New Delivery Reagents Inspired by Cell Penetrating Peptides," ACS Fall Mtg., Boston, MA, Aug 2015.
- "Teaching Polymers to Act Like Proteins," ACS Fall Mtg., Boston, MA, Aug 2015.
- "Widening the Bicontinuous Compositional Window," ACS Fall Mtg., Boston, MA, Aug 2015.
- "Bio-inspired Polymers that Mimic Protein Activity," Polymers for Advanced Technology, Hangzhou, China, Jun 2015.
- "Wide Bicontinous Compositional Windows from Co-networks Made with Telechelic Macromonomers," ACS Spring Meeting, Denver, CO, Mar 2015.
- "Designing Novel Protein Mimics from Simple Synthetic Polymers," ACS Spring Meeting, Denver, CO, Mar 2015.
- "Wide Bicontinous Compositional Windows from Co-networks Made with Telechelic Macromonomers," APS Meeting, San Antonio, TX, Mar 2015.
- "Designing Polymers that Mimic Proteins: From Advanced Materials to Biology," Chemistry Seminar, Florida International University, Miami, FL, Feb 2015.
- "Chemically Rich Macromolecules for Advanced Applications from Biology to Materials," MACRO2015, Indian Society for the Cultivation of Science, Kolkata, India, Jan 2015.

2014

- "Designing Polymers with Protein-Like Activity: New Opportunities for T-Cell Biology," 2nd IBN International Symposium: Nanomedicine & Nanoassays, Singapore, Dec 2014.
- "Designing Polymers with Protein-like Activity,"2nd International Symposium on Polymer Ecomaterials (PEM2014), Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Kunming, China, Aug 2014.
- "Synthetic Mimics of Protein Transduction Domains: New Opportunities for T-Cell Biology," Div. of Organic Chem, ACS Fall Meeting, San Francisco, CA, Aug 2014.
- "Novel Metal-Cation Containing Based Polymer Networks for Anion Transport," Div. of Polym Chem, ACS Fall Meeting, San Francisco, CA, Aug 2014.
- "Metal-ligand Containing Polymers Based on Terpyridine in the Side Chain," Div. of Polym Chem, ACS Fall Meeting, San Francisco, CA, Aug 2014.
- "Designing Polymers with Protein-like Activity," International Symposium on Polymer Chemistry 2014, State Key Laboratory of Polymer Chemistry, Shanghai, China, Jun 2014.
- "Novel Zwitterionic Materials for Nonfouling Coatings," ONR Biofouling/Coatings Program Review, Charleston, SC, Jun 2014.
- "Building Synthetic Mimics of Naturally Occurring Proteins" ACS Spring Mtg., Dallas, TX, Mar 2014.
- "Synthetic Mimics of Antimicrobial Peptides and TAT," Fox Chase Chemical Diversity Center, Phila., PA, Feb 2014.
- "Chemically Rich Macromolecules: From Advanced Materials to Protein Mimics," University of Illinois MatSE Colloquium, Urbana-Champaign, IL, Feb 2014.

2013

- "Designing Advanced Materials from Protein-mimics to Anion Exchange Membranes," Auburn University Seminar, Auburn, AL, Dec 2013.

- "Designing Simple Synthetic Polymers with Protein-like Activity," Polymers for Advanced Technologies (PAT), Berlin, Germany, Oct 2013.
- "Novel Zwitterionic Polymers for Non-fouling Applications," ONR Biofouling/Coatings Program Review, Arlington, VA, Jun 2013.
- "Building Synthetic Mimics of Proteins: Novel Antimicrobial Materials," IPRIME Workshop, University of Minnesota, May 2013.
- "Cyclic Polymer Brushes and Gels," ACS Spring Mtg., New Orleans, LA, Apr 2013.
- "Protein Transduction Domains Mimics and Other Approaches to Novel Delivery," Drug and Bioactive Delivery Bridge Meeting, Cambridge, MA, Mar 2013.

2012

- "Building Synthetic Mimics of Proteins: Novel Antimicrobial Materials," Austrian-Slovenian Polymer Mtg., PCCL, Leoben, Austria, Nov 2012.
- "Novel Materials Inspired by Biology," CHM/CNRS Collaboration Workshop, Universite de Bordeaux, Bordeaux, France, Sep 2012.
- "Synthetic Mimics of Antimicrobial Peptides and Cell Penetrating Peptides," Wichita State University, Chemistry Seminar, Wichita, KS, Sep 2012.
- "Protein Transduction Domain Mimics: Opportunities in Immunology," ACS Fall Meeting, Phila., PA, Aug 2012.
- "Building Synthetic Mimics of Proteins: Novel Antimicrobial Materials and Protein Transduction Domains," Warwick 2010, Warwick University, Manchester, UK, Jul 2012.
- "Novel Chemistry for Hydrogels: The Impact on Mechanical Properties," IUPAC World Polymer Congress, Blacksburg, VA, Jun 2012.
- "Novel Protein Transduction Domain Mimics Inspired by Natural Proteins like HIV-TAT," IUPAC World Polymer Congress, Blacksburg, VA, Jun 2012.
- "Metal Ligand-containing Polymers," IUPAC World Polymer Congress, Blacksburg, VA, Jun 2012.
- "Novel ROMP-based Zwitterionic Polymers for No-fouling," International Congress on Marine Corrosion and Fouling (ICMCF), Seattle, WA, Jun 2012.
- "Novel Zwitterionic Polymers Based on ROMP," ONR Coating/Biofouling Program Review, Seattle, WA, Jun 2012.
- "Novel Zwitterionic Polymers Based on ROMP," Polymer Chemistry 2012, Intl Symp. On Polymer Chemistry, Changchun, China, Jun 2012.
- "Antimicrobial Polymers," University of Iowa, Chemistry Seminar, Cedar Rapids, IA, May 2012.
- "Antimicrobial Polymers," Alumnus Graduation Speaker, North Carolina State University, Department of Chemistry, Raleigh, NC, May 2012.
- "Antimicrobial Polymers," ACS Spring Mtg., San Diego, CA, Mar 2012.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," University of Tennessee, Dept. of Chemistry Seminar, Knoxville, TN, Feb 2012.

2011

- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," Indo-US Science/Technology Forum, Trivandrum, India, Jan 2011.

- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," Bio-Inspired Self-Assembly of Macromolecules Symposium (ACS Fall), Anaheim, CA, Mar 2011.
- "Antimicrobial Polymers," ONR Coatings Workshop, New Orleans, LA, Jun 2011.
- "Antimicrobial Polymers," Brandeis University, Dept. of Chemistry Seminar, Waltham, MA, Nov 2011.
- "Antimicrobial Polymers," ACS SWRM, Austin, TX, Nov 2011.
- "Antimicrobial Polymers," MIT, Dept. of Chemistry Seminar, Cambridge, MA, Nov 2011.
- "Antimicrobial Polymers," ONR Seacoat Workshop, Las Vegas, NV, Dec 2011.

2010

- "Novel Antibiotics: From Design to the Clinic," ACS Fall Mtg., Boston, MA, Aug 2010.
- "Novel Hydrogel Networks Utilizing Self-Assembly," ACS Fall Mtg., Boston, MA, Aug 2010.
- "Novel Dually Functional Zwitterionic Polymers," Graduate Research Symposium, ACS Division of Organic Chemistry, Boston, MA, Jul 2010.
- "Novel Dually Functional Zwitterionic Polymers as Non-Fouling Materials," 15th International Congress on Marine Corrosion and Fouling, Newcastle, U.K., Jul 2010.
- "Dually Functional ROMP Based Zwitterionic Materials for Non-Fouling Coatings," ONR Coatings/Biofoulings Program Review, Memphis, TN, Jun 2010.
- "Protein Transduction Domain Mimics from Guanidinium Functionalized ROMP-Polymers," Cellular Delivery of Therapeutic Macromolecules, Cardiff, U.K., Jun 2010.
- "Enhanced Intracellular Delivery by Guanidinium Functionalized ROMP-Polymers," 3rd International Cellular Delivery of Therapeutic Macromolecules (CDTM) Symposium, Cardiff, UK, Jun 2010.
- "Elasticity in Strong Hydrogels and Cavitation Rheology on Biological Tissues," CUMIRP Mtg., Amherst, MA, May 2010.
- "Cavitation, Elasticity and Fracture in Strong Hydrogels," American Physical Society Mtg., Portland, OR, Mar 2010.
- "Chemically Rich Macromolecules: From Biomimetics to Advanced Materials," ACS Spring Mtg., San Francisco, CA, Mar 2010.
- "Capturing Protein Activity in Simpler Polymeric Macromolecules," ACS Spring Mtg., San Francisco, CA, Mar 2010.

2009

- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," 11th Annual Pacific Polymer Conference, Cairns, Australia, Dec 2009.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," First Federation of Asian Polymer Societies (FAPS), Nagoya, Japan, Oct 2009.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," Competence Centres for Excellent Technologies (COMET), Vienna, Austria, Oct 2009.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," Cardinal Health, Dublin, OH, Oct 2009.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," University of Michigan, Sep 2009.

- "Novel Approaches to Non-Fouling Surfaces," Office of Naval Research Coatings Workshop, Portland, OR, Jun 2009.
- "Antimicrobial and Cell-Penetrating Peptide Mimics," 2009 Bioorganic Gordon Research Conference, Andover, NH, Jun 2009.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," 2009 Polymers Gordon Research Conference, Mt. Holyoke College, Hadley, MA, Jun 2009.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," Global Center of Excellence, Kyushu University, Fukuoka, Japan, Apr 2009.
- "Landing Your First Tenure Track Faculty Position," NOBBChE 26th National Conference, St. Louis, MO, Apr 2009.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," University of New Hampshire, Durham, NH, Feb 2009.

2008

- "Capturing Protein-like Activity in Synthetic Macromolecules," Eindhoven University, The Netherlands, Dec 2008.
- "Capturing Protein-like Activity in Synthetic Macromolecules," MACROMEX, Los Cabos, Mexico, Dec 2008.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials," University of Florida-Gainsville, FL, Oct 2008.
- "Designing Macromolecules with Strong Similarities to Biology," ACS Fall Mtg., Phila., PA, Aug 2008.
- "Designing Macromolecules with Strong Similarities to Biology" MACRO 2008, Taipei, Taiwan, Jun-Jul 2008.
- "Membrane-Active Synthetic Mimics of Host Defense Peptides" ACS Spring Mtg., New Orleans, LA, Apr 2008.
- "Chemically Rich Macromolecules: Biomimetics to Advanced Materials" Macromolecular Chemistry Symposia, 101st National Mtg. of the Korean Chemical Society, Seoul, Korea, Apr 2008.
- "Designing Macromolecules with Strong Similarities to Biology" NOBCChE 35th National Conference, Phila, PA, Mar 2008.
- "Designing Polymers Similar to Biology" NEA Partner Science Day, University of Puerto Rico, Mayaguez, Feb 2008. **Keynote Speaker*.

2007

- "Antimicrobial ROMP Polymers" ONR Coating Workshop, Sedona, AZ, Dec 2007.
- "Designing Polymers with Strong Similarities to Biology" Rutgers University, New Jersey, Nov 2007.
- "Designing Macromolecules with Strong Similarities to Biology," 9th International Symposium on Polymers for Advanced Technologies (PAT), Shanghai, China, Oct 2007.
- "Designing Macromolecules with Strong Similarities to Biology," STIPOMAT Conference, Les Diablerets, Switzerland, Oct 2007.
- "Phenylene Ethynylene are Versatile Scaffolds for Bio-Nanotechnology," Iowa State University Chemistry Seminar Speaker, Sep 2007.

- "Designing Macromolecules with Strong Similarities to Biology," ACS Fall Mtg., Boston, MA, Aug 2007.
- "Designing Macromolecules with Strong Similarities to Biology," Biosensing Summer School, Larmor-Baden, France, Aug 2007.
- "Designing Macromolecules with Strong Similarities to Biology," IUMACRO 2007, Polytechnic University, Brooklyn, NY, Jun 2007.
- "Designing Antimicrobial Mimics for Host Defense Peptides," Gordon Conference, Pisa, Italy, Apr-May 2007.
- "Nanotechnology at UMass-Amherst," INC3 Nanotechnology Conference on Communication and Cooperation, Brussels, Belgium, Apr 2007.
- "How to Obtain That First Tenure Track Faculty Position," NOBBChE Annual Conference, Los Angeles, CA, Apr 2007.
- "Designing Antimicrobial Mimics for Host Defense Peptides," American Physical Society, Denver, CO, Mar 2007.
- "Metal-Containing Polymers," ACS National Mtg., Chicago, IL, Mar 2007.
- "Designing Macromolecules with Strong Similarities to Biology," Polytechnic University, Brooklyn, NY, Feb 2007.
- "Designing Macromolecules with Strong Similarities to Biology," Polymer West, Gordon Research Conference, Ventura, CA, Jan 2007.
- "Designing Macromolecules with Strong Similarities to Biology," University of Alabama at Huntsville Chemistry Seminar Series, Jan 2007.

2006

- "Probing the molecular interactions of antimicrobial peptide mimics with SFG," ACS Fall Mtg., San Francisco, CA, Sep 2006.
- "Designing Macromolecules with Strong Similarities to Biology," The Polytechnic University, New York, NY, Sep 2006.
- "Designing Macromolecules for NanoBiotechnology," PR-LSAMP, Mayagüez, Puerto Rico, May 2006.
- "Designing Macromolecules with Strong Similarities to Biology," Clemson University, Greenville, SC, April 2006.
- "Designing Macromolecules with Strong Similarities to Biology," University of Toronto, Toronto, Canada, Mar 2006.
- "Capturing Host Defense Peptide Activity in Simple Oligomers," ACS Spring Mtg., Atlanta, GA, Mar 2006.
- "Designing Macromolecules with Strong Similarities to Biology," University of Illinois, Urbana, IL, Feb 2006.
- "Designing Macromolecules with Strong Similarities to Biology," Carnegie Mellon University, Pittsburgh, PA, Feb 2006.
- "Metal Containing Polymers for Self Healing Applications," Self-Healing Materials Workshop, Chapel Hill, NC, Jan 2006.

2005

- "Designing Macromolecules with Strong Similarities to Biology," Kyoto University, Kyoto, Japan, Dec 2005.

- "Antimicrobial Polymers and Supramolecular Materials," Hokkaido University, Sapporo, Japan, Dec 2005.
- "Designing Macromolecules with Strong Similarities to Biology," Tokyo University, Tokyo, Japan, Dec 2005.
- "Tethered Biocides," ONR Workshop, Maui, HI, Dec 2005.
- "Metal Ligand Polymers for Supramolecular Materials," Pacifichem 2005 Congress Conference, Honolulu, HI, Dec 2005.
- "Designing Macromolecules with Increased Functionality," North Carolina State University, Raleigh, NC, Nov 2005.
- "Designing Macromolecules with Increased Functionality: Strong Similarities to Biology," University of North Carolina, Chapel Hill, NC, Nov 2005.
- "Designing Macromolecules with Increased Functionality: Strong Similarities to Biology," Massachusetts Institute of Technology, Cambridge, MA, Nov 2005.
- "Antimicrobial and Metal-Ligand Polymers," University of Connecticut, Storrs, CT, Sept 2005.
- "Biomimetic Materials Design," University of Michigan, Ann Arbor, MI, Nov 2005.
- "Antimicrobial Oligomers and Polymers," N.I.H., Bethesda, MD, Aug 2005.
- "Antimicrobial Polymers and Films," Gordon Research Conference, New London, NH, Jul 2005.
- "Capturing the Activity of Natural Proteins in Simple Polymers," The Society of Polymer Sci/Eng Japan, Fukuoka, Japan, Jul 2005.
- "Design Molecules with Increased Functionality," Kyushu University, Fukuoka, Japan, Jul 2005.
- "Chemically Rich Macromolecules," Virginia Tech, Blacksburg, VA, Jun 2005.
- "Non-Fouling Biomimetics," Office of Naval Research Workshop, Baltimore, MD, Jun 2005.
- "Phenylene Ethynylene Structures as Versatile Biomimetics," I.E.C.B., Bordeaux, France, Jun 2005.
- "Macromolecules for Supramolecular Polymer Sci/Eng Containing Metal-Ligands in the Side Chains," Northeast Regional ACS Mtg., Newark, NJ, May 2005.
- "Antimicrobial Materials," Army Research Labs, Aberdeen, MD, May 2005.
- "Bioinspired Macromolecules," Materials at the Synthetic Biological Interface-MRSEC, Amherst, MA, May 2005.
- "Chemically Rich Macromolecules," North Dakota State University, Fargo, ND, Apr 2005.
- "Chemically Rich Macromolecules: Biomimetic Antimicrobials and Metal Functionalized Copolymers," Northwestern University, Evanston, IL, Mar 2005.
- "Biomimetics Based on Phenylene Ethynylene Structures," ACS Spring Mtg., San Diego, CA, Mar 2005.
- "Novel Hydrogels for Degradable Polymers," ACS Spring Mtg., San Diego, CA, Mar 2005.
- "Antimicrobial Polymers and Surfaces," PolyMedix Board Mtg., Radnor, PA, Feb 2005.
- "Antimicrobial Biomimetics," Office of Naval Research Workshop, Sedona, AZ, Jan 2005.

2004

- "Designing Antimicrobial Polymers," University of Mississippi, University, MS, Dec 2004.

- "Phenylene Ethynylene as a Versatile Biomimetic Backbone," Northeast Regional ACS Mtg., Rochester, NY, Nov 2004.
- "Biomimetic Polymers," ACS Biennial, Savannah, GA, Oct 2004.
- "Merging Chemistry, Materials Science, and Biology to Create New Biomedical Materials," BEACON, Hartford, CN, Oct 2004.
- "Chemically Rich Macromolecules: Biomimetics to Supramolecular Materials," UMass-Lowell, Lowell, MA, Sep 2004.
- "Capturing Peptide Activity in Simple Oligomers: Access to New Markets and Opportunities," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "Novel Antimicrobial Biomimetics," ACS Fall Mtg., Philadelphia, PA, Aug 2004. *Presentation as part of a Presidential Session*.
- "Chemically Rich Macromolecules," Laboratoire de Recherche Sur Les Polymères, Paris, France, Jul 2004.
- "Biomimetics to Supramolecular Polymers," Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland, Jul 2004.
- "Antimicrobial Polymers and Oligomers," GKSS Forschungszentrum, Geesthecht, Germany, Jul 2004.
- "Chemically Rich Macromolecules: Biomimetics to Supramolecular Materials," Eindhoven University of Technology, Eindhoven, The Netherlands, Jul 2004.
- "Proteomics to Antimicrobials," NIH, Bethesda, MD, Jul 2004.
- "Antimicrobial Polymers for Antifouling Materials," Office of Naval Research Workshop, San Francisco, CA, Jun 2004.
- "Bio-Inspired Materials," Becton-Dickinson, Franklin Lakes, NJ, May 2004.
- "Block Copolymers Containing Metal Ligand Side Chains for Use in Supramolecular Chemistry," ACS Spring Mtg., Anaheim, CA, Mar 2004.
- "Blocky Macromolecules Containing Terpyridince for Supramolecular Materials," ACS Spring Mtg., Anaheim, CA, Mar 2004.
- "Facially Amphiphilic Phenylene Ethynylenes with Potent Antimicrobial Activity," ACS Spring Mtg., Anaheim, CA, Mar 2004 .
- "Facially Amphiphilic Polymers with Potent Antimicrobial Activity," ACS Spring Mtg., Anaheim, CA, Mar 2004.

2003

- "Antimicrobial Oligomers for Antifouling Materials," Office of Naval Research Workshop, Orlando, FL, Dec 2003.
- "Facially Amphiphilic Polymers as Antimicrobials," Materials Research Society, Boston, MA, Dec 2003.
- "Designing Antimicrobial Oligomers," University of Tennessee-Knoxville, Knoxville, TN, Nov 2003.
- "Designing Facially Amphiphilic Phenylene Ethynylenes," ACS Fall Mtg., New York, NY, Sep 2003.
- "Biomimetic Polymers," Polymer for Advanced Technologies, Ft. Lauderdale, FL, Sep 2003.
- "Triblock PLA-PEO-PLA Hydrogels: Structure and Mechanical Properties," ACS Fall Mtg., New York, NY, Sep 2003.

- "Proteomics to Antimicrobials," Bioengineering Research Partnership-NIH, Bethesda, MD, June 2003.
- "Degradable Polymers and Antimicrobials," U of Minnesota, Minneapolis, MN, May 2003.

2002

- "Antimicrobial Polymers," Army Natick Research Laboratories, Natick, MA, Feb, 2002.
- "Polymers for Biology," Center for Tissue Engineering, University of Massachusetts-Medical School, Mar 2002.
- "Designing Facially Amphiphilic Antimicrobials," AIChE, Indianapolis, IN, Sep 2002.
- "Simple Facially Amphiphilic Polymers as Peptide Mimics," ACS Fall Mtg., Boston, MA, Aug 2002.
- "Simple Facially Amphiphilic Polymers as Peptide Mimics," Solutia, Inc. Pensacola, FL, Sep. 2002.
- "Antimicrobial and Supramolecular Polymers," Army Research Laboratories, Aberdeen, MD, Jun 2002.

Contributed Talks: (since 2002) (denotes student presentation)*

2011

- "Poly(ethyleneglycol) (PEG) Hydrogels with Novel Network Structures: Recent Results from SANS," ACS Fall Mtg., Denver, CO, Aug-Sep 2011.

2010

- "Novel Dually Functional Zwitterionic Polymers and their Anti-Biofouling Properties," ACS Fall Mtg., Boston, MA, Aug 2010.
- "Synthesis and Characterization of Novel Photo-Cross-Linked Hydrogels," ACS Fall Mtg., Boston, MA, Aug 2010.
- "Cell Penetrating Peptide Mimics Prepared by ROMP," ACS Fall Mtg., Boston, MA, Aug 2010.
- "Synthesis of Magnetic Nanostructured Polymers and Effect of their Morphologies," ACS Fall Mtg., Boston, MA, Aug 2010.
- "Enhanced Intracellular Delivery by Guanidinium Functionalized ROMP-Polymers," 3rd Intl Cellular Delivery of Therapeutic Macromolecules (CDTM) Symposium, Cardiff, Wales, Jun 2010.

2009

- *****"ROMP Based Zwitterionic Polymers Carrying Dual Functionality as Anti-Fouling Materials," International Workshop on Concepts & Strategies for Surface Engineering to Control Biofouling, St. Petersburg, FL, Dec 2009.
- *****"ROMP Based Zwitterionic Polymers Carrying Dual Functionality as Anti-Fouling Materials," CUMIRP-MRSEC Polymer Event, Amherst, MA, Oct 2009.
- *"Synthetic Mimics of Antimicrobial Peptides as Immunomodulators," Northern Immunological Mountain Society (NIMS), Bolton Valley, VT, Sep 2009
- *"Cell Penetrating Peptide Mimics: Guanidinium-Containing Polyoxanorbornenes," Gordon Research Conference-Polymers 2009, Hadley, MA, Jun 2009.

- *"ROMP Based Zwitterionic Polymers Carrying Dual Functionality," ONR Coatings/Biofoulings Program Review, Portland, OR, Jun 2009.
- *"ROMP Based Zwitterionic Polymers Carrying Dual Functionality," Gordon Research Conference-Polymers 2009, Hadley, MA, Jun 2009.
- *"ROMP Based Zwitterionic Polymers Carrying Dual Functionality," Gordon Research Seminar-Polymers 2009, Hadley, MA, Jun 2009.

2007

- "Directed Self-Assembly of Polymers and Nanotubes into Air-Suspended Bridges," 13th Annual Kentucky EPSCOR Conference, Lexington, KY, Oct 2007.
- "Synthesis and Activity of Novel Antimicrobial Surfaces," ACS Spring Mtg., Boston, MA, Aug 2007.
- "Influence of Lipid Composition on Membrane Activity of Antimicrobial Oligomers," ACS Fall Mtg., Boston, MA, Aug 2007.
- "1H NMR Characterization of Helical Folding in *ortho*-Phenylene Ethynylene Oligomers," ACS Fall Mtg., Boston, MA, Aug 2007.
- "Sensing Chemical Warfare Agents with Terpyridine-based Macromolecules," ACS Fall Mtg., Boston, MA, Aug 2007.
- "Side Chain Terpyridine Motifs for Supramolecular Materials," ACS Fall Mtg., Boston, MA, Aug 2007.
- "Amphiphilic Polymers Endowed with Desirable Antimicrobial Properties," ACS Fall Mtg., Boston, MA, Aug 2007.
- "Nanomagnetic Polymers," ACS Fall Mtg., Boston, MA, Aug 2007.

2005

- "Metal-Ligand Polymers Containing Lanthanide Ions," Materials Research Society, Boston, MA, Dec 2005.
- "Designing Polymers to Capture the Biological Activity of Host Defense Peptides," Materials Research Society, Boston, MA, Dec 2005.
- "Antimicrobial Biomimetic Molecules," Pacifichem 2005 Congress Conference, Honolulu, HI, Dec 2005.
- "Tunable Hydrogels from PLA-PEO-PLA Triblocks: Effect of Crystallinity of the PLA Block," Society of Rheology, Vancouver, British Columbia, Oct 2005.
- "Using Crystallinity to Control Structure and Rheology of PLA-PEO-PLA Hydrogels," AIChE Materials Engineering and Sciences Division Annual Mtg., Cincinnati, OH, Oct 2005.
- *"Synthesis and Characterization of Electronic Variations of Ortho-Phenylene Ethynylene Oligomers," ACS Fall Mtg., Washington, DC, Aug 2005.
- "Antimicrobial Films and Coatings," Films and Coatings Gordon Research Conference, New London, NH, Jul 2005.
- "Supramolecular Architectures Based on Metal Complexes," Polymers East Gordon Research Conference, South Hadley, MA, Jun 2005.
- "Controlling Mechanical properties of Hydrogels through Crystalline Hydrophobic Domains," Gordon Research Conference, Polymers (East), South Hadley, MA, Jun 2005.

- "Folding of Ortho-Phenylene Ethynylene Oligomers Characterized by Solution NMR," Polymers East Gordon Research Conference, South Hadley, MA, Jun 2005.
- "Side Chain Terpyridine Polymers with Random and Blocky Architecture for Luminescence and 'Nano' Assembly Applications," Polymers East Gordon Research Conference, South Hadley, MA, Jun 2005.
- "Preventing Bacterial Colonization on Synthetic Polymer Surfaces," American Society of Microbiology, Hartford, CT, Jun 2005.
- "Novel Antimicrobial Agents," American Society of Microbiology, Atlanta, GA, Apr 2005
- "Influence of an Antibacterial Polymer on the Phase Behavior of Phospholipids," Biophysics of Membrane-Permeabilising and Membrane-Translocating Peptides Workshop, Berlin, Germany, Apr 2005.
- *"Phenylene Ethynylene Structures as Versatile Biomimetic Scaffolds," American Chemical Society, San Diego, CA, Mar 2005.
- "Mechanical Properties of Triblock PLA-PEO-PLA Hydrogels," ACS, Spring Mtg., San Diego, CA, Mar 2005.
- "Chemically Rich Macromolecules: Antimicrobial Biomimetics and Self-Assembling Metal Functionalized Polymers," Polymers West Gordon Research Conference, Ventura, CA, Jan 2005.

2004

- "Synthesis of Polyurea Oligomers and their Antibacterial Study," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "Cationic Facially Amphiphilic Phenylene Ethynylenes as Host Defense Peptide Mimics," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "PLA-PEO-PLA Hydrogels from Triblock Copolymers," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "Synthesis and Characterization of Substituted Ortho-phenylene Ethynylene Oligomers," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "Capturing Peptide Activity in Simple Oligomers: Access to New Markets and Opportunities," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "Synthesis and Characterization of Terpyridine-containing Polymer with Block-Random Architecture via Raft Polymerization," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "Macromolecules with Side Chain Terpyridine Motifs for Use in Supramolecular Materials," ACS Fall Mtg., Philadelphia, PA, Aug 2004.
- "Macromolecules Containing Terpyridine in the Side Chain for Use in Supramolecular Materials," IUPAC, Jul 2004.
- "Triblock PLLA-PEO-PLLA Hydrogels: Structure and Mechanical Properties," IUPAC, Jul 2004.
- "Facially Amphiphilic Phenylene Ethynylenes: New Amphiphilic Architectures and Potent Antimicrobial Activity," IUPAC, Jul 2004.
- "Designing Novel Hydrogels for Applications in Biology," MRSEC-CAFP Joint Mtg., Amherst, MA, Jun 2004.
- "Optical and X-ray Scattering Studies on a Semi-crystalline Triblock Copolymer," American Physical Society, Montreal, Canada, Mar 2004.

- "Cationic Facially Amphiphilic Phenylene Ethynylenes as Host Defense Peptide Mimics," Materials Research Society, Boston, MA, Dec 2004
- "PLA-PEO-PLA Hydrogels," Materials Research Society, Boston, MA, Dec 2004.

2003

- "Strong Gels from Associative PLA-PEO-PLA Triblock Copolymers," Society of Rheology, Pittsburgh, PA, Oct 2003.
- "Triblock PLA-PEO-PLA Hydrogels: Structure and Mechanical Properties," ACS Fall Mtg., New York, NY, Sep 2003.
- "Ortho Phenylene Ethynylene Molecules Programmed to form Secondary and Tertiary Structures," Polymers East Gordon Research Conference, South Hadley, MA, Jun 2003.
- "Aggregation Studies of Novel, Facially Amphiphilic Phenylene Ethynylene Materials," Polymers East Gordon Research Conference, South Hadley, MA, Jun 2003.
- "Synthesis of Terpyridine Containing Polymers with Well Defined Architectures for Use in Supramoleculars Materials," Polymers East Gordon Research Conference, South Hadley, MA, Jun 2003.
- "Facially Amphiphilic Phenylene Ethynylenes," ACS, New Orleans, LA, Mar 2003.
- "Amphiphilic Secondary Structure in Phenylene Ethynylenes," ACS Spring Mtg., New Orleans, LA, Mar 2003.
- "Aggregation Studies of Novel, Facially Amphiphilic Phenylene Ethynylenes," ACS Spring Mtg., New Orleans, LA, Mar 2003.
- "Facially Amphiphilic Phenylene Ethynylenes at the Air-Water Interface," Polymers West Gordon Research Conference, Ventura, CA, Jan 2003.

2002

- "Simple Facially Amphiphilic Polymers as Peptide Mimics," ACS Fall Mtg., Boston, MA, Aug 2002.
- "Copolymers Containing Metal Binding Ligands for use in Supramolecular Materials: Toward Metal Induced Reversible Networks," ACS Fall Mtg., Boston, MA, Aug 2002.
- "Phenylene Ethynylene Polymers with Amphiphilic Structures," ACS Fall Mtg., Boston, MA, Aug 2002.

RESEARCH FUNDING

Raised >$16,000,000 since starting at UMass in September 2001. Funding from federal agencies include NSF, NIH, ARO, and ONR. This does not include my efforts on major center and equipment grants; it only includes research dollars directly into my laboratory.
**indicates I am PI, where I am not PI only funds under my control are listed*
#direct cost only

Current

*NSF (PI: Tew) – "De Novo Design of Protein Transduction Domain Mimics Enabling New Opportunities" $400,000 *No Cost Extension

Completed

*UMass Medical School (PI: Tew) – "Protein Transduction Domain Mimics for Cas9 Delivery," $42,000 (07/14-06/16).

*NIH U01 (PI: Tew) – "Antimicrobial Oligomers for Biodefense and Emerging Food-borne Infectious Disease" $7,010,785 (07/09-06/16)

NSF (PI: Tew)- Innovation Core: "Protein Transduction Domain Mimics," $45,000 (11/13-05/14)

ONR (PI: Tew) – "Novel Zwitterionic ROMP-Based Polymers" $450,000 (3/10-2/14) (No Cost Extension Requested to 12/14)

NIH:UCSF (PI: Degrado) – "Antibacterial Foldamers" $500,000 (4/08-02/14)

UMII: Alcon Research – "Macromonomers for Novel Hydrogels," $23,850 (06/12-08/13)

*CVIP Development Fund, ~$25,000 (5/11-4/13)

*NSF (PI: Tew) – "Polymers Rich in Guanidine Functionality are Protein Mimics," $581,647 (No Cost Extension: 03/13)

NSF: SBIR Phase I Polymedix (PI: R. Scott) – "Antimicrobial Sutures" $40,000 (7/1/10-01/30/11)

ARO STTR Phase II: Polymedix (PI: R. Scott) – "Novel Antibiotics" $240,000 (9/1/10-03/31/12)

*Science and Technology Fund (PI: Tew) - "Center for Materials and Immunology" $100,000 (7/1/12-6/30/13)

*ARO (PI: Tew) – "Novel Polymers Containing Metal Ligands in the Side Chain" $300,000 (9/1/09-8/31/12)

NSF (PI: Maria Santore) – "Surfaces that Selectively Manipulate and Kill Bacteria" $225,000 (09/08-08/11)

*CUMIRP Part I: Cluster B – "Novel Hydrogels" $27,000[#] (10/09-09/10)

NSEC: CHM (PI-Jim Watkins) – "Novel Water-based Assemblies" $15,000[#] (03/08-03/09)

NSEC: CHM-JUNTO (PI: Jim Watkins) "Hydrogel Characterization" $23,250[#] (11/08-10/09)

MRSEC– NSF funded (PI-Todd Emrick) - "Amphiphilic Block Copolymers" $33,000[#] (02/10-03/11)

*GATES FOUNDATION (PI: Tew) "Capturing Nature's Weapons to Prevent Infectious Disease" $100,000[#] (5/1/09-04/30/10)

*Army Research Office DURIP - "Light Scattering Methods" $150,000 (1/09-6/10)

*CUMIRP Part I: Cluster B – "Novel Hydrogels" $27,000, 10/08-09/09

ONR: Polymedix (R. Scott) – "STTR for N09-T033: Novel IV Antibiotic for Acinetobacter Infections" $35,600[#] (10/1/09-09/30/10)

ARO STTR Phase I: Polymedix (PI: R. Scott) – "STTR for A09A-T004: Novel Antibiotics for MDR Biofilm Injections" $35,600[#] (10/1/09-9/30/10)

NSF/NIRT: University of Louisville (PI: Bob Cohen) - “Directed Self-Assembly of Suspended Polymer Fibers in the Fabrication of 3-D Nanodevices” $345,981[#] (9/05-8/09)

*ONR - “Natural Immunity Approaches to Anti-Fouling Coatings”

$464,722 (01/07-9/09)

*NSF CAREER Award - “Programming Molecules to Fold into Helical Structures” $515,000 (1/05-12/09)

*ARO Young Investigator - Presidential Early Career Award for Scientists and Engineers (PECASE) - “Supramolecular Materials from Metal Functionalized Copolymers” $500,000 (6/04-5/09)

ARO-MURI (PI-Russell) - “Bio-Directed Hierarchical Assembly of Multifunctional Materials” $300,000[#] (6/04-5/09)

MRSEC– NSF funded (PI-Tom Russell) - “ABC Triblock Copolymers” $27,000[#] 05/08-04/09)

*PolyMedix Sponsored Research - “Facially Amphiphilic Polymers for Self-Sterilizing Materials” $325,660 (10/03-08/08)

*CUMIRP Part III: Bausch & Lomb - $7,000 (01/07-01/08)

*DuPont Young Faculty Grant - $75,000 (11/04-10/07)

NIH (PI-Bill Degrado) - “Proteomics to Biomimetic Polymers: Engineering Principles for Anti-Infective Agents” $411,785[#] (9/02-9/07)

*ONR - “Bioactive Surfaces” symposia support $4,000 (8/05-12/06)

*ONR Young Investigator - “Biomimetic Approaches to New Antifouling Materials” $380,000 (5/03-5/06)

*CUMIRP- Cluster B-Polymers in the BioArena - “Biodegradable Hydrogels” $90,000 (9/03-8/06)

Army Research Laboratory Center of Excellence on Polymers (PI-Sam Gido) – “Polymers for Supramolecular Materials” $71,588[#] (1/04-12/05)

NSF-IMR (PI- Thayumanavan) - “Acquisition of a Gel Permeation Chromatography with Multiple Detection System for Polymer Research and Education” $76,001[#] (1/04-12/05)

*3M Nontenured Faculty Award - $45,000 (7/02-7/05)

*Army Research Office DURIP - “Macromolecular Sample Characterization” $99,966 (1/04-6/05)

MRSEC– NSF funded (PI-Tom Russell) - “Metal Ligand Containing Polymers” $75,000[#] (5/02-5/05)

NSF Research Site for Educators in Chemistry (PI-Tom McCarthy) - “Computational Prediction of Helical *ortho* Phenylene Vinylenes” $69,750[#] (5/02-5/05)

*Army Research Laboratory Directors Research Initiative - “Decontaminating Polyurethanes” $35,000 (1/04-12/04)

Army Research Laboratory - Center of Excellence on Polymers (PI-Sam Gido) – “Polymers for Supramolecular Materials” $28,635[#] (1/03-12/03)

*University of Massachusetts Faculty Research Grant - “Facially Amphiphilic Polymers” $15,000 (2/02-2/03)

*Army Research Office Short Term Innovative Research - “Biomimetic Polymers with Antimicrobial Activity” $30,000 (7/02-1/03)

Course No.	Course Title	Credits	Enrollment	Course Evaluation
2016-2017 Academic Year				
-Fall Term-				
PSE797NR	NRT Foundations I	2		
PSE603	Polymer Synthesis Lab	3		
PSE897T	Well-Defined Macromol Architectures	1-3		
-Spring Term-				
PSE797NR	NRT Foundations II	2	9	
PSE797D	Scientific Management	1	19	
PSE897T	Well-Defined Macromol Architectures	1-3	3	
2015-2016 Academic Year				
-Fall Term-				
PSE603	Polymer Synthesis Lab	3	22	
PSE897T	Well-Defined Macromol Architectures	1-3	4	
-Spring Term-				
PSE897T	Well-Defined Macromol Architectures			
2014-2015 Academic Year				
-Fall Term-				
PSE603	Polymer Synthesis Lab	3	16	
PSE897T	Well-Defined Macromol Architectures	1-3	4	
-Spring Term-				
PSE897T	Well-Defined Macromol Architectures	1-3	6	
2013-2014 Academic Year				
-Fall Term-				
PSE603	Polymer Synthesis Lab	3	15	3.98
PSE897T	Well-Defined Macromol Architectures	1-3	7	
-Spring Term-				

PSE897T	Well-Defined Macromol Architectures	1-3	7	
PSE797D	Scientific Management	1	9	4.53
2012-2013 Academic Year				
-Fall Term-				
PSE603	Polymer Synthesis Lab	3	27	3.83
PSE897T	Well-Defined Macromol Architectures	1-3	7	n/a
-Spring Term-				
PSE797D	Scientific Management	1	18	4.53
PSE897T	Well-Defined Macromol Architectures	1-3	8	
2011-2012 Academic Year				
-Fall Term-				
PSE 603	Polymer Synthesis Lab	3	19	4.16
PSE 897T	Well-Defined Macromol Architectures	1-3	9	n/a
-Spring Term-				
PSE 797D	Scientific Management	1	20	4.61
PSE 897T	Well-Defined Macromol Architectures	1-3	11	n/a
2010-2011 Academic Year				
-Fall Term-				
PSE 603	Polymer Synthesis Lab	3	25	4.08
PSE 897T	Well-Defined Macromol Architectures	1-3		n/a
-Spring Term-				
PSE 897T	Well-Defined Macrmol Architectures	1-3	10	n/a
2009-2010 Academic Year				
-Fall Term-				
PSE 603	Polymer Synthesis Lab	3	21	3.83
PSE 897T	Well-Defined Macromol Architectures	1-3	7	n/a
-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	16	4.08
PSE 897T	Well-Defined Macromol Architectures	1-3	10	n/a
2008-2009 Academic Year				
-Fall Term-				

PSE 603	Polymer Synthesis Lab	3	30	4.08
PSE 897T	Well-Defined Macromol Architectures	1-3	6	n/a
-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	24	4.10
PSE 797D	Scientific & Engineering Management	1	7	4.68
PSE 897T	Well-Defined Macromol Architectures	1-3	9	n/a
2007-2008 Academic Year				
-Fall Term-				
PSE 607	Introduction to Polymer Chemistry	3	29	4.20
PSE 897T	Well-Defined Macromol Architectures	1-3	5	n/a
BioChem 296H	Biochemistry Honors Independent Study		3	n/a
-Spring Term-				
PSE 897T	Well-Defined Macromol Architectures	1-3	9	n/a
2006-2007 Academic Year				
-Fall Term-				
PSE 607	Introduction to Polymer Chemistry	3	26	4.20
PSE 897T	Well-Defined Macromol Architectures	1-3	4	n/a
-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	23	4.33
PSE 797D	Scientific & Engineering Management	1	14	4.64
PSE 897T	Well-Defined Macromol Architectures	1-3	6	n/a
2005-2006 Academic Year				
-Fall Term-				
PSE 607	Introduction to Polymer Chemistry	3	26	4.99
Chem 496	Undergraduate Lab Research	3	5	n/a
BioChem 396H	Biochemistry Honors Independent Study		2	5.23

-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	18	5.23
PSE 797D	Scientific & Engineering Management	1	26	4.53
PSE 897T	Well-Defined Macromol Architectures	1-3	6	n/a
Chem499T	Chemistry Honors Thesis		1	n/a
MicBio 396H	Microbiology Honors Independent Study		1	n/a
2004-2005 Academic Year				
-Fall Term-				
PSE 603	Polymer Synthesis Lab	3	22	5.88
Chem 496	Undergraduate Lab Research	6	3	n/a
MicBio 396 H	Microbiology Honors Independent Study		1	n/a
MicBio 696	Microbiology Independent Study		1	n/a
MicBio 796	Microbiology Independent Study		1	n/a
-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	21	5.55
2003-2004 Academic Year				
-Fall Term-				
PSE 603	Polymer Synthesis Lab	3	22	5.55
Chem 496	Undergraduate Lab Research	6	6	n/a
-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	21	5.01
2002-2003 Academic Year				
-Fall Term-				
PSE 603	Polymer Synthesis Lab	3	20	5.62
Chem 496	Undergraduate Lab Research	6	2	n/a
-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	16	5.63
Chem 496	Undergraduate Lab Research	6	2	n/a

Chem 388	Undergraduate Research	3	1	n/a
2001-2002 Academic Year				
-Fall Term-				
	No teaching assignment			
-Spring Term-				
PSE 760	Organic Polymerization Reactions	3	23	5.78
Chem 496	Undergraduate Lab Research	1	1	n/a

STUDENT THESIS COMMITTEES

Student	***Department***	***Thesis Type***	***Status***
Megan Matta	Polymer Sci/End	Ph.D.	Current
Christopher Hango	Polymer Sci/Eng	Ph.D.	Current
Michael Kwasny	Polymer Sci/Eng	Ph.D.	Current
Kelly McLeod	Polymer Sci/Eng	Ph.D.	Current
Nicholas Posey	Polymer Sci/Eng	Ph.D.	Current
E. Ilker Ozay	Polymer Sci/Eng	Ph.D.	Current
Coralie Backlund	Polymer Sci/Eng	Ph.D.	Current
Chris Barney	Polymer Sci/End	Ph.D.	Current
Mallory Gordon	Chemistry	Ph.D.	Current
Lauren Jansen	Chemical Eng	Ph.D.	Current
Madhura Pawar	Polymer Sci/Eng	Ph.D. (Lesser Group)	Former
Joel Sarapas	Polymer Sci/Eng	Ph.D.	Graduated
Brittany deRonde	Polymer Sci/Eng	Ph.D.	Graduated
Katherine Gibney	Polymer Sci/Eng	Ph.D.	Graduated
Catherine Walker	Polymer Sci/Eng	Ph.D.	Graduated
Michael Lis	Polymer Sci/Eng	Ph.D.	Graduated
Benjamin G. Mohr	Polymer Sci/Eng	Ph.D.	Graduated
Melissa A. Lackey	Polymer Sci/Eng	Ph.D.	Graduated
A Ozgul Tezgel	Polymer Sci/Eng	Ph.D.	Graduated
Hitesh D. Thaker	Polymer Sci/Eng	Ph.D.	Graduated
Yongping Zha	Polymer Sci/Eng	Ph.D.	Graduated
Jun Cui	Polymer Sci/Eng	Ph.D.	Graduated
Semra Colak	Polymer Sci/Eng	Ph.D.	Graduated
Jeremy Rathfon	Polymer Sci/Eng	Ph.D.	Graduated
Raghavendra Maddikeri	Polymer Sci/Eng	Ph.D.	Graduated
Adam Hathorne	Polymer Sci/Eng	Ph.D.	Graduated
Naomi Sanabria-DeLong	Polymer Sci/Eng	Ph.D.	Graduated
Sterling Alfred	Polymer Sci/Eng	Ph.D.	Graduated
Joanna Pool	Polymer Sci/Eng	Ph.D.	Graduated
Khaled Aamer	Polymer Sci/Eng	Ph.D.	Graduated
Ticora V. Jones	Polymer Sci/Eng	Ph.D.	Graduated
Firat Ilker	Polymer Sci/Eng	Ph.D.	Graduated
Lachelle Arnt	Polymer Sci/Eng	Ph.D.	Graduated

Roberto Laos	Polymer Sci/Eng	Ph.D.	Graduated
Sungkyun Sohn	Polymer Sci/Eng	Ph.D.	Graduated
Jeffrey Dabkowski	Microbiology	M.S. Honors	Graduated
Jason Rennie	Microbiology	M.S.	Graduated
Kyoung-sik Chin	Chemical Eng	Ph.D.	Graduated
Praveen Sharma	Chemical Eng	Ph.D.	Graduated
Saugata Gon	Chemical Eng	Ph.D.	Graduated
David Griffin	Chemical Eng	Ph.D.	Graduated
Diego F. A. Torres	Chemistry	Ph.D.	Graduated
Chandrakant Popere	Chemistry	Ph.D.	Graduated
Chaekyu Kim	Chemistry	Ph.D.	Graduated
Adrienne Carver	Chemistry	Ph.D.	Graduated
Dipankar Basak	Chemistry	Ph.D.	Graduated
Max J. Lein	Chemistry	Ph.D.	Graduated
Basar Gider	Chemistry	Ph.D.	Graduated
Arlicia Grant	Chemistry	Ph.D.	Graduated
Hao Xu	Chemistry	Ph.D.	Graduated
Hiroshi Nakade	Chemistry	Ph.D.	Graduated
Jitapa Sumranjit	Chemistry	Ph.D.	Graduated
Kulandaivelu Sivanandan	Chemistry	Ph.D.	Graduated
Jeff Martin	Chemistry	Ph.D.	Graduated
Patrick Taylor	Chemistry	Ph.D.	Graduated
Travis Benanti	Chemistry	Ph.D.	Graduated
Safo Abaoku	Chemistry	Ph.D.	Graduated
Kyrs Bronk	Chemistry	Ph.D.	Graduated
Sarah Lyon	Chemistry	Undergraduate Honors	Graduated
Courtney McConoghy	Chemistry	Undergraduate Honors	Graduated
Katelyn Spillane	Chemistry	Undergraduate Honors	Graduated
Eric Turnberg	Chemistry	Undergraduate Honors	Graduated
Tatyana Shalapyonok	Chemistry	Undergraduate Honors	Graduated
Jeff Dabkowski	Microbiology	Undergraduate Honors	Graduated
Chris Nelson	Microbiology	Undergraduate Honors	Graduated

SERVICE CONTRIBUTIONS

To the University:

1. Member, Institute for Applied Life Sciences, IALS Internal Advisory Board.
2. Co-director, new Bioactive Delivery Center within the Institute of Applied Life Sciences.
3. Thrust Leader, Massachusetts Life Science Center (MLSC) proposal resulting in landmark $95M investment on the UMass campus.
4. Active participant in the NEAGAP program on campus. This involves the targeted recruiting and development of minority science students for careers in academia. Other activities include screening, hosting, and interacting with undergraduates as part of the SPUR program run by NEA. My participation has built and strengthened PSE's recruiting and retention mission with the larger University effort on diversity. Attended the National

Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE) national annual meeting 2004, 2005, 2006, 2009.

5. Co-organizer, American Chemical Society Polymer Division 6th National Graduate Student Research Conference. (also listed under Departmental service). Because this conference attracted national and international attention, it is listed as University service.
6. My involvement with PolyMedix led to a term sheet with the University in which PolyMedix expects to contribute 1 million in research dollars to my lab over the next five years (as of January 2006 this total is $356,140). In addition, the University gains a 3% ownership in PolyMedix. This activity nicely illustrates the integrated scientific and technological aspects of my research and how they can benefit the University in multiple ways.
7. Co-organized the 2002 Lenz symposium held at the Campus Center. Although this meeting was held to recognize a retired PSE faculty member, the committee raised money and organized an international symposium held on campus which highlighted the UMass scientific community.
8. Member, Stockroom Bid Committee, 2003. Our responsibility was to evaluate competing bids for the chemical stock room located in the basement of LGRT. This also included gathering feedback from my department on the need and use of this facility. We, the committee, proposed a recommendation and supervised the implementation of this recommendation. The stockroom was converted from VWR to Fischer and most patrons have expressed pleasure with the new stockroom.
9. Speaker, IGERT presentation for PSE course 590A, "Nanotechnology from Lab to Product" to discuss translating research into technology.
10. Recruiting, Science, Engineering, and Health Professions Collaborative Symposium, January 19, 2006, University of Connecticut. A diversity event.
11. Faculty Mentor, NEAGEP, 2004-present.
12. Member, Equal Access to the Sciences for All Genders and Ethnicities (EASAGE) committee since 2004-2012. This is a College-wide committee to address greater diversity access in the physical sciences.
13. Participant, Lunch Panel, "A Ph.D. is not Enough." This is a student-initiated effort to increase mentorship within the graduate student body on the UMass campus. It is generally in-line with a larger goal and, now, campus-wide mission to increase mentorship activities on Campus.
14. Recruiting Committee Member, Chemistry-Biology Interfaces Program (CBI) since 2006-2012.
15. Recruiting Committee Chairman, Chemistry-Biology Interfaces Program (CBI) since 2003-2006. This committee is charge with recruiting responsibilities for the program including minority recruiting. Because this is a non-degree program, recruiting spills over into departmental efforts. There are representatives from Chemistry, Chemical Engineering, Polymer Science & Engineering and Engineering, and Biochemistry. As chairman, I helped integrate this effort with the larger campus-wide NEAGEP.

16. Executive Committee Member, Chemistry-Biology Interfaces Program (CBI), member since 2001, Executive Committee since 2003-present. This is a campus-wide NIH funded program to train students in the interdisciplinary interface of chemistry and biology. The program meets monthly with presentations by the active faculty and their students.
17. Faculty Participant, Center for UMass-Industry Research on Polymers (CUMIRP), 2001-present. This center organizes polymer research between the university and industrial partners. Two on-campus reviews are held annually. I actively participated in the planning and formation of a new cluster (Cluster B- Polymers in the BioArena) which currently has three members that are entirely new to CUMIRP. These include Johnson & Johnson and Boston Scientific. Attracting new CUMIRP members is essential to expanding the financial base of this center as opposed to past trends in which new clusters were formed by moving companies from old clusters. I co-organized the 2002-2003 CUMIRP workshop, "Polymer Biomaterials" and the 2003 Fall poster session.
18. Faculty Participant, Materials Research Science and Engineering Center (MRSEC), 2001-present. The center coordinates collaborative polymer research efforts on campus under a multi-investigator NSF grant. Reviews are held on-campus twice annually as part of the renewal process. For the 2001-02 renewal, I was a major contributor to writing the final proposal as part of IRG III. This new IRG effort increased the MRSEC funding by 33% from past years. My role in outreach and diversity increased between 2003-2007 as the Center's focus on this area has expanded.

To the Polymer Science and Engineering Department:

1. Co-Director, NSF National Research Traineeship (NRT), 2015-2020.
2. Diversity and outreach mentor, Girls Inc. of Holyoke, 2013.
3. Graduate Program Director, 2011-present.
4. New website, 2010, co-organizer of the effort to launch a new PSE website.
5. Member, Panel for Scientific Management Class, 2004 and 2005. Participated on this panel to discuss "My Path to a Tenure Track Faculty Position."
6. Co-organizer, American Chemical Society Polymer Division 6th National Graduate Student Research Conference. This conference is focused on graduate student presentations. In addition, special sessions were organized on Career Development and mentoring. This conference had the largest attendance to date. In addition, we had international participation.
7. Member, 2004-2005 Faculty Search Committee.
8. PSE Faculty's Publications Book. I developed and created a single volume book that included all of the PSE faculty publications for 2004-2006. This was well received but stopped due to time commitment.
9. Member, Recruiting Committee since 2003-present. This committee is responsible for increasing the number and quality of graduate students admitted each year. Our first departmental recruiting material was developed, which is an 11x18 poster with tear off cards with departmental information. We have also created a trifold, single sheet flyer for mass mailing distribution. We changed our recruiting strategy to include a weekend

recruiting event for prospective 1st years. Another change included eliminating the 'interview' process for the highest quality prospective students.

10. Member, Polymer Synthesis Curriculum Committee since 2003-present. This committee is responsible for updating and evaluating the synthetic polymer chemistry component of the department's graduate studies.
11. Member, Space and Facilities Committee since 2002-present. This committee is responsible for overseeing and allocating research and office space within the Conte building.
12. Member, Departmental Awards Committee since 2002-present. This committee responsible for identifying, nominating, and pursuing awards for PSE faculty.

To the Professional Community:

External Educational and Professional Activities:

1. Participant, NRT Annual Meeting, University of Maryland, May 2016
2. Participant, Future STEM Leaders, Washington, DC, May 2016.
3. Panelist, NRT INFEWS Virtual Panel, Apr 2016.
4. Session Chair, Intl Symposium on Polymer Chemistry, State Key Laboratory, Shanghai, China, Jun 2014.
5. ACS Fellow, 2013
6. Chair, ACS Division of Polymer Chemistry, 2013-present.
7. Panelist, NSF SBIR/STTR Separation Technology Panel-Phase I, Mar 2013.
8. Panelist, NSF Center for Chemical Innovations Program Cyber Review Panel-Phase I, Feb 2013.
9. Special Issue Editor, *Polymers* (ISSN 2073-4360), "Antibacterial Polymers: From Natural Inspiration to Practical Applications," 2013. http://www.mdpi.com/journal/polymers/special_issues/antibacterial_polymers.
10. Chair-Elect, ACS Division of Polymer Chemistry, 2012.
11. Member, Editorial Board, *ACS Macro Letters*, 2012-present.
12. Member, Editorial Board, *Macromolecules*, 2012-present.
13. Presided, ACS National Meeting, Fall 2011, "Metal-Containing and Metallo-Supramolecular Polymers."
14. Member, Defense Science Study Group (DSSG), DoD, 2011-2012.
15. Vice-Chair, ACS Division of Polymer Chemistry, 2011.
16. Member Scientific Community, Polymers for Advanced Technologies, Lodz, Poland, Oct 2-5, 2011.
17. Co-organizer, Future Faculty Workshop: Diverse Leaders of Tomorrow, UMass Amherst, Jul 18-21, 2010. This is an annual conference; 2013 was the 6th one. I participate annually as a Faculty Mentor.

18. National Program Chair, ACS Division of Polymer Chemistry, 2008-2011.
19. Chair, ACS National Fall Meeting, Polymer Chemistry Session, Aug 2009.
20. Member, Editorial Board, *Biomacromolecules*, 2008-present.
21. Panelist, National Science Foundation Panel, VA, Aug 2008.
22. Program Committee, Polymers West Gordon Conference. 2006-2007.
23. Co-chair, Graduate Research Conference on Polymers, Gordon Conference, 2006-2007.
24. Member, Editorial Board, *Polymers for Advanced Technologies*, 2006-present.
25. Co-organizer, NOBCChE, April 2006. Workshop entitled "Landing Your First Tenure-Track Position." This workshop outlines the practical steps taken by recent young faculty to secure their positions.
26. Co-organizer, 2005 ACS Fall Meeting symposia entitled "Bioactive Surfaces and Their Applications."
27. Co-organizer, ACS Polymer Division 6th National Graduate Student Research Conference, Jun 2005.
28. Alternate Councilor, ACS Polymer Division of Polymer Chemistry. 2004-2006.
29. Co-organizer, ACS Polymer Division 2004 Biennial, Oct 2004. This is the keynote meeting of the ACS Polymer Division. This symposium addresses current topics and aims to set the course for emerging and future areas of polymer research.
30. Session Chair, Polymers West Gordon Research Conference, Jan 2003. I was invited by the Conference Chair and co-Chair to moderate the morning session of presenters.
31. Co-founder and Scientific Advisor Board member, Polymedix, Inc, Philadelphia, PA, Jun 2002-present.
32. Member, ACS Polymer Division board, 2002-present.
33. Chair, ACS National Fall Meeting, Biomacromolecules Session, 2002.
34. Secretary, Oak Ridge National Laboratory, Center for Nanoscale Materials Science Workshop, 2002.
35. Volunteer, Encouraging Tomorrow's Chemists, Middle School Outreach, University of Illinois, Urbana, Aug 1996-Dec 1998.

External Boards:

1. Chair, POLY Winter Executive Committee Meeting, San Antonio, TX, Jan 2013.
2. PCCL, Leoben, Austria, Nov 2012.

Reviews of Publications and Proposals*:*

Proposals

National Science Foundation (NSF) – Reviewer for the Divisions of Chemistry and Materials Research

1. Organic and Macromolecular Program
2. Polymer Program
3. Biomaterials

NSF CAREER Panels
NSF NRT Panel
NSF Nanoscale Integration Research Team (NIRT)
NSF SBIR Panels
Petroleum Research Fund
National Institutes of Health (NIH) special study section
Department of Energy, Center for Nanophase Materials Science, Proposal Review Committee

Journals

Listed in approximate order of frequency
Journal of the American Chemical Society
Macromolecules
Biomacromolecules
Chemistry A: European Journal
Langmuir
Journal of Polymer Sci/Eng-Polymer Chemistry-Part A
Angewandte Chemie Intl Edition
Soft Matter
Journal of Physical Chemistry B
Polymers for Advanced Technologies
ACS Macro Letters
Journal of Organic Chemistry
New Journal of Chemistry
Polymer
Biochima et. Bio Physica. Acta
Advanced Functional Materials
ACS Medicinal Chemistry Letter
Biopolymers
Organic Biomolecular Chemistry
Polymer Chemistry
Proceedings of the National Academy of Sciences, USA
Tetrahedron Letters
Macromolecules Rapid Communications
Molecular Crystals and Liquid Crystals
Molecular Therapy
Organic Letters
Journal of Controlled Release
Biopolymers
Chemistry and Biology
Accounts of Chemical Research
ACS Nano
Analytical Chemistry
Antimicrobial Agents and Chemotherapy
Biomaterials
Chemical Communications

Chemical Materials
ChemistrySelect
Clinical Vaccine Immunology
Current Medicinal Chemistry
Current Topics in Medicinal Chemistry
Current Opinion in Biotechnology
European Journal of Immunology
Journal of Industrial Microbiology & Biotechnology
Journal of Inorganic and Organometallic Polymers and Materials
Journal of Materials Chemistry
Journal of Materials Research
Journal of Medicinal Chemistry
Macromolecular Chemistry and Physics
Macromolecular Materials and Engineering
Microbiology-SGM
MRS Bulletin
Nature Communications
New Journal of Chemistry
Organic Letters
Polymer International
Reactive and Functional Polymers
RSC Advances

Consulting Activities:

Polymedix, Inc., Philadelphia, PA, 2002-2013.
Pestaway Company, West Falmouth, MA, 2003-2004.

RESEARCH GROUP

Current Graduate Students:

Coralie Backlund – 6th year
E. Ilker Ozay – 6th year
Kelly McLeod – 5th year
Nick Posey – 5th year
Michael Kwasny – 4th year
Chris Hango – 3rd year
Megan Matta – 2nd year

Current Undergraduate Students:

n/a

Group Alumni:

Joel Sarapas	graduate (Ph.D.)	NIST
Brittany deRonde	graduate (Ph.D.)	Infineum
Madhura Pawar	graduate (Ph.D.)	Lesser Group, PSE
Katherine Gibney	graduate (Ph.D.)	3M

Catherine Walker	graduate (Ph.D.)	Postdoc, Naval Res. Lab
Michael Lis	graduate (Ph.D.)	MIT Lincoln Labs
Melissa A. Lackey	graduate (Ph.D.)	3M
Hitesh D. Thaker	graduate (Ph.D.)	Infineum
Jun Cui	graduate (Ph.D.)	Infineum
Yongping Zha	graduate (Ph.D.)	Xerox
A. Ozgul Tezgel	graduate (Ph.D.)	CEA
Raghavendra Maddikeri	graduate (Ph.D.)	SABIC Innovative Plastics
Semra Colak	graduate (Ph.D.)	3M
Jeremy Rathfon	graduate (Ph.D.)	Hunt Optics
Sterling Alfred	graduate (Ph.D.)	Sirrus Chemistry
Naomi Sanabria-DeLong	graduate (Ph.D.)	W. L. Gore & Associates
Khaled Aamer	graduate (Ph.D.)	Pall Corporation
Ticora Jones	graduate (Ph.D.)	USAID
Lachelle Arnt	graduate (Ph.D.)	self-employed
Jason Phillip	graduate (MBA)	ANSA McAl Chemicals
Jason Rennie	graduate (M.S.)	UMass Worcester
Federica Sgolastra, Ph.D.	post doc	3M
Tsung-hao “Bob” Fu	post doc	NalcoChampion
Ke Zhang, Ph.D.	post-doc	I.C.C.A.S. (China)
Abhigyan Som, Ph.D.	post-doc	Metrex
Yan Li, Ph.D.	post-doc	seeo.com
Jing Jiang, Ph.D.	post-doc	General Electric
Ahmad Madkour, Ph.D.	post-doc	Dow Chemical
Karen Lienkamp. Ph.D.	post-doc	Univ. of Freiburg (Germany)
Raja Shunmugam, Ph.D.	post-doc	I.I.S.E.R./Kolkatta (India)
Morris Slutsky, Ph.D.	post-doc	UMass Dartmouth
Gregory Gabriel, Ph.D	post-doc	Kennesaw State University
Zoha AL-Badri, Ph.D.	post-doc	Ashland-Hercules, Inc.
Haizhong Tang, Ph.D.	post-doc	PolyMedix, Inc.
Jeff Dabkowski	graduate (M.S.)	OrthoCarolina
Leah Caffrey	undergraduate	UMass AMH, Chem Honors
Kathryn Shea	undergraduate	UMass AMH, Microbio Hon.
Kim Rousseau	undergraduate	UMass AMH, Microbio Hon.
Jason Ballenas	undergraduate	UMass AMH, Eng Honors
Tammy Van	undergraduate	UMass AMH, Pre-med Hon.
Sam Estabrooks	undergraduate	UMass AMH, Microbiology
David Ferreira	undergraduate	UMass AMH, ChemEng
Vyacheslav Yanyuk	undergraduate	*deceased
Kewei Zhang	undergraduate	UMass AMH, Microbiology
Nikita Nayyar	undergraduate	UMass AMH, Microbiology
Joshua Grolman	undergraduate	University of Illinois-UC
Avital Percher	undergraduate	UMass Chem/BioChem
Kushi-Nidhi Kumar	undergraduate	SGUL (U.K.)

Sarah Lyon	undergraduate	Mass Col. Pharma/Health Sci
Chris Nelson	undergraduate	Mass Col. Pharma/Health Sci
Katelyn Spillane	undergraduate	UC-Berkeley
Yelena Urgina	undergraduate	Westfield Electroplating Co.
Dannon Stigers	undergraduate	Univ. of New Hampshire
Jack Peters	undergraduate	Ion Corp
Tatyana Shalapyonok	undergraduate	N. E. School of Optometry
Debanti Sengupta*	undergraduate	Stanford University

*j*oint w/Patricia B. O'Hara, Amherst*

Visiting Scholars:

Dr. Min Zhang	Professor	I.C.C.A.S., Guangzhou
Amelie Koch	Ph.D. Candidate	Technical University Munich
Federica Sgolastra	Ph.D. Candidate	Polytechnic U., Ancona, Italy

Undergraduate Summer Students (Research Experience for Undergraduates/REU):

Jason Ballenas	Cornell	2015
Kimberly Rousseau	Johns Hopkins School of Med	2015
Alexa Kuenstler	UMass Amherst Grad Student	2015
Kathryn Shea	Eutropics Pharmaceuticals	2015
Leah Caffrey	UMass Amherst	2015
Orett Burke	Mass General Hospital	2015
Angie Korpusik	Case Western	2014
Salimar Cordero	Univ of Puerto Rico, Mayaguez	2014
David Ferreira	UMass Amherst Grad Student	2013
Ashley Hall	UC Merced	2013
Vanessa Kung	Oregon State University	2013
Coralie Backlund	Oregon State University	2011
Joseph Fuentes	Cal State Los Angeles	2011
Timothy Omoniyi	San Jacinto College	2010
Aaron Zimmerman	Swarthmore College	2010
Jordan Gruskay	Amherst College	2009
Aleksandr Gerasimenko	Oregon State University	2009
Jesus Garcia Figueroa	University Puerto Rico, Mayaguez	2007
Ashlan Musante	Wheaton College	2007
Louis Perez	University of Florida	2006
Yamalia Roberts	University of Connecticut	2006
Yeon Choi	Columbia University	2006
Cartney E. Smith	Brown University	2005
Adam Hathorne	University of Southern Mississippi	2005

Educator Summer Students (Research Experience for Teachers/RET):

Monica Kaufman	Ph.D. candidate, Smith College	2013
Angela Ruggeri	Greenfield High School	2013
Elizabeth Radwilowicz	Belchertown High School	2008

Angela Cote	Ralph C. Mahar Regional H.S.	2008
Paralee King, Chemistry	Quabbin Regional High School	2007

Undergraduate Research Exchange Students:

Ronja Otter, University of Mainz, Germany	2014
David Strassburger, University of Mainz, Germany	2013
Greta Becker, University of Mainz, Germany	2011
Alper Canyaka, University of Mainz, Germany	2011
Alexander Birke, University of Mainz, Germany	2010
Desiree Weller, University of Mainz, Germany	2008
Anika Reuters, University of Mainz, Germany	2008
Henning Schafer, University of Mainz, Germany	2007
Christoph Kins, University of Mainz, Germany	2007
San Hyuk Seo, Seoul National University, South Korea	2005
Helga Seyler, University of Mainz, Germany	2004
Tom deGreef, University of Eindhoven, The Netherlands	2004

Scientific Collaborations:

Prof. Lisa Minter, University of Massachusetts, Amherst
Prof. Gill Diamond, Dept. of Oral Biology, University of Florida,
Prof. Shana Kelly, Dept. of Biochemistry & Pharmacy, University of Toronto
Dr. Hedrik Streeck, Chief, Cellular Immunology, U.S. Military HIV Research Program
Prof. Gary Ostroff, University of Massachusetts-Worcester
Prof. Barbara Osborne, University of Massachusetts-Amherst
Prof. William Degrado, University of California, San Francisco
Prof. Michael Klein, University of Pennsylvania
Prof. Klaus Nüsslein, University of Massachusetts-Amherst
Prof. Susan Roberts, University of Massachusetts-Amherst
Dr. Regine Willumeit, GSSK, Germany
Prof. Zhan Chen, University of Michigan
Prof. Gerard Wong, University of California Los Angeles
Prof. Gareth McKinley, Massachusetts Institute of Technology
Prof. Ji-Young Chang, Seoul National University, Korea
Prof. Shen Ye, Hokkaido University, Japan
Prof. Harm-Anton Klok, EPFL, Switzerland
Dr. Yakai Feng, Tianjin University, China