

CURRICULUM VITAE

September 2015

Elizabeth R. Gillies
Associate Professor
Department of Chemistry
Department of Chemical and Biochemical Engineering
Material Science Addition Rm. 3202
The University of Western Ontario
1151 Richmond St.
London, ON, Canada N6A 5B7

Education

Degree	University	Department	Year
Doctorate	University of California, Berkeley	Chemistry	2004
Bachelor's, Honours	Queen's University	Chemistry	2000

Employment History

Date	Rank & Position	Department	Institution
July 2012-present	Associate Professor	Chemistry and Chemical and Biochemical Engineering	The University of Western Ontario
Oct. 2006-June 2012	Assistant Professor	Chemistry and Chemical and Biochemical Engineering	The University of Western Ontario
July 2006-Oct. 2006	Assistant Professor	Chemistry	The University of Western Ontario
Dec. 2004-June 2006	Postdoctoral Fellow	European Institute of Chemistry and Biology (Ivan Huc Group)	University of Bordeaux, France
Aug. 2000-Nov. 2004	Graduate Student Researcher	Chemistry (Jean Frechet Group)	University of California, Berkeley
May 1999 – Aug. 1999	Research Assistant	Chemistry (Donald Weaver Group)	Queen's University

Academic Honours

Petro Canada Young Innovator Award, **2012**
Tier 2 Canada Research Chair, Government of Canada, **2011-2016**
Early Researcher Award, Government of Ontario, **2008-2013**
Tier 2 Canada Research Chair, Government of Canada, **2006-2011**
John Charles Polanyi Prize, Government of Ontario, **2006**
Marie Curie Incoming International Fellowship for Post-Doctoral Research, European Commission, **2004-2006**

Teaching Awards

University Student's Council Teaching Honour Roll 2012-2013, 2007-2008
Maurice Bourgougnou Teaching Award, Department of Chemical and Biochemical Engineering, 2010-2011

Selected Scholarly and Professional Activities

Senior Editor: Journal of Interdisciplinary Nanomedicine (Wiley, new journal launched July 2015)
Member of the Editorial Advisory Board: Polymer International (Wiley) (2013 -)
Member of the Canadian Cancer Society Innovation Awards Review Panel (2014 - 2015)
Member of the Early Research Award panel for Advanced Materials and Manufacturing (2012, 2014, 2015)
Treasurer of the Macromolecular Science and Engineering Division of the Chemical Institute of Canada (2014 -)

CONTRIBUTIONS TO RESEARCH

Bold = graduate student authors whom I supervised

Bold/underline = undergraduate student authors whom I supervised

Italics = postdoctoral fellows whom I supervised

Underline = collaborator

* = corresponding author

Book chapters:

3. **Fan, B.**; Gillies, E. R.* "Self-immolative Polymers." in the *Encyclopedia of Polymer Science and Technology*, Wiley, **2015**, 1-35. DOI: 10.1002/0471440264.pst610.
2. **Nazemi, A.**; Gillies, E. R. "Dendrimer Bioconjugates: Synthesis and Applications" in "Chemistry of Bioconjugates: Synthesis, Characterization, and Biomedical Applications" Narain, R. Ed., John Wiley and Sons, Hoboken, New Jersey, **2014**, 146-185.
1. Gillies, E. R. "Glycodendrimers and Their Biological Applications" in "Engineered Carbohydrate-Based Materials for Biomedical Applications: Polymers, Surfaces, Dendrimers, Nanoparticles, and Hydrogels" Narain, R. Ed., John Wiley and Sons, Hoboken, New Jersey, **2011**, 261-306.

Patent applications:

5. Gillies, E. R.; **McEachran, M. J.**; *Trant, J. F.*; **Sran, I.**; Ferrari, L. "Polymer-Drug Conjugate Based on a Polyisooolefin-based Copolymer." European Patent Appl. (2014) EP14195663.
4. Gillies, E. R.; **Fan, B.**; *Trant, J. F.*; **Wong, A. D.** "Polyglyoxylates, manufacture and use thereof" US Prov. Appl. (2014), No. 61/989,086
3. Ragogna, P. J.; **Guterman, R.**; Gillies, E. R.; Corkery, C.; Berven, B. M. " Polyelectrolyte polymers, their manufacture and use" PCT Int. Appl. (2014), PCT/CA2014/050193.
2. Gillies, E. R.; *Bonduelle, C. V.*; **Karamdoust, S. K.**, Stojcevic, G.; Ferrari, L. P.; Adkinson, D. K.; "Methods for Preparation of Functionalized Copolymers and Graft Copolymers" PCT Int. Appl. (2012), WO 2012019302 A1 20120216.
1. Stojcevic, G.; Arsenault, G.; Gillies, E. R.; *Bonduelle, C. V.*; **McEachran, M. J.**; "Functionalized Copolymers of Isoolefins and Diolefins and Their Use as Compatibilizers for Coatings." PCT Int. Appl. (2012), WO 2012019303 A1 20120216.

Papers in refereed journals:

84. Tabatabaei, M.; Wallace, G. Q.; Caetano, F. A.; Gillies, E. R.; Ferguson, S. S. G.; Lagugne-Labarthe, F.* "Controlled positioning of analytes and cells on a plasmonic platform for glycan sensing applications using surface enhanced Raman spectroscopy." *Chem. Sci.* under revision.
83. **Hemery, G.**; Garanger, E.; Lecommandoux, S.; **Wong, A. D.**; Gillies, E. R.; Pedrono, B.; Bayle, T.; Jacob, D.; Sandre, O.* "Polymer-grafted iron oxide nanoparticles as thermosensitive MRI contrast agents and magnetic nano-heaters." *J. Phys. D: Appl. Phys.* Revision submitted.
82. Trant, J. F.; **Sran, I.**; de Bruyn, J. R.; Ingratta, M.; Borecki, A., Gillies, E. R.* Synthesis and properties of arborescent polyisobutylene derivatives and a paclitaxel conjugate: Towards stent coatings with prolonged drug release." *Eur. Polym. J.* in press
81. Kenaree, A. R.; **Cuthbert, T. J.**; Barbon, S. M.; Boyle, P. D.; Gillies, E. R.; Ragogna, P. J.; Gilroy, J. B.*. Synthesis and characterization of a family of air-stable ferrocene- and ruthenium-containing primary, secondary, and tertiary phosphines. *Organometallics.* in press.
80. **Peyret, A.**; Trant, J. F.; Bonduelle, C. V.; Ferji, K.; **Jain, N.**; Lecommandoux, S.*; Gillies, E. R.* "Synthetic glycopolypeptides: Synthesis and self-assembly of poly(γ -benzyl-L-glutamate)-glycosylated dendron hybrids." *Polym. Chem.*, online DOI: 10.1039/C5PY01060H
79. Trant, J. F.; **McEachran, M. J.**; **Sran, I.**; **Turowec, B. A.**; de Bruyn, J. R.; Gillies, E. R.* "Covalent polyisobutylene-paclitaxel conjugates for controlled release from potential vascular stent coatings." *ACS App. Mater. Inter.* **2015**, *7*, 14506-14517.
78. **Moustafa, A.**; Abd Rabo Moustafa, M. M.; **Zilinskas, G. J.**; Gillies, E. R.* "Covalent drug immobilization in poly(ester amide) nanoparticles for controlled release." *Can. J. Chem. Eng.*, **2015**, in press (invited for a special issue on Nanotechnology).
77. **Guterman, R.**; Gillies, E. R.; Ragogna, P. J.* "Kinetically Controlled Patterning of Highly Cross-Linked Phosphonium Photopolymers Using Simple Anion Exchange" *Langmuir*, **2015**, *31*, 5181-5189.
76. **Guterman, R.**; Rabiee Kenaree, A.; Gilroy, J. B.; Gillies, E. R.; Ragogna, P. J.* "Polymer Network Formation Using the Phosphane-ene Reaction: A Thiol-ene Analogue with Diverse Postpolymerization Chemistry." *Chem. Mater.* **2015**, *27*, 1412-1419.
75. **Cuthbert, T. J.**; **Guterman, R.**; Ragogna, P. J.; Gillies, E. R.* "Contact Active Antibacterial Phosphonium Coatings Cured with UV Light." *J. Mater. Chem. B*, **2015**, *3*, 1474-1478.
74. **Guterman, R.**; Gillies, E. R.; Ragogna, P. J.* "The Formation of gold nanoparticles in photopolymerized networks." *Can. J. Chem.* in press.
73. **Salem, M.**; Xia, Y.; Allan, A.; Rohani, S.; Gillies, E. R.* "Curcumin-loaded, folic acid-functionalized magnetite particles for targeted drug delivery." *RSC Adv.*, **2015**, *5*, 37521-37532.
72. **McEachran, M. J.**; Trant, J. F.; **Sran, I.**; de Bruyn, J. R.; Gillies, E. R.* "Carboxylic Acid-Functionalized Butyl Rubber: Synthesis, Characterization, and Physical Properties." *Ind. Eng. Chem. Res.*, **2015**, *54*, 4763-4772.
71. Whitton, G.; Gillies, E. R.* "Functional aqueous assemblies of linear-dendron hybrids." *J. Polym. Sci. A: Polym. Chem.* **2015**, *53*, 148-172. (invited for a special issue, J. M. J. Frechet's 70th birthday)
70. **Soleimani, A.**; Abd Rabo Moustafa, M. M.; Borecki, A.; Gillies, E. R.* "A Comparison of Covalent and Noncovalent Strategies for Paclitaxel Release using Poly(ester amide) Graft Copolymer Micelles." *Can. J. Chem.* **2015**, *93*, 399-405. (invited for a special issue dedicated to R. Stan Brown)
69. **Karamdoust, S.**; Crewdson, P.; Ingratta, M.; Gillies, E. R.* "Synthesis and properties of arborescent polyisobutylene-poly(ethylene oxide) graft copolymers: a comparison of linear and arborescent graft copolymer architectures." *Polym. Int.* **2015**, *64*, 611-620. (invited for a special issue dedicated to François Schué)
68. **McIntosh, J. T.**; **Nazemi, A.**; Bonduelle, C. V.; Lecommandoux, S.; Gillies, E. R.* "Synthesis, self-assembly and degradation of amphiphilic triblock copolymers with fully photodegradable hydrophobic blocks." *Can. J. Chem.* **2015**, *93*, 126-133. (invited, special issue on Western Chem.)
67. **Wong, A. D.**; **Gungor, T. M.**; Gillies, E. R.* "Multi-responsive Azobenzene End-cap for Self-immolative Polymers." *ACS Macro Lett.* **2014**, *3*, 1191-1195.

66. **Fan, B.**; *Trant, J. F.*; **Wong, A. D.**; Gillies, E. R.* "Polyglyoxylates: A versatile class of triggerable self-immolative polymers from readily accessible monomers" *J. Am. Chem. Soc.* **2014**, *136*, 10116-10123.
65. **Nazemi, A.**; Gillies, E. R.* "Dendrimersomes with Photodegradable Membranes for Triggered Release of Hydrophilic and Hydrophobic Cargo." *Chem. Commun.* **2014**, *50*, 11122-11125.
64. **Siu, K. S.**; **Zheng, X.**; **Liu, Y.**; **Zhang, Y.**; **Zhang, X.**; **Chen, D.**; **Yuan, K.**; Gillies, E. R.; **Koropatnick, J.**; **Min, W.-P.** "Single-walled carbon nanotubes non-covalently functionalized with lipid modified polyethyleneimine for siRAN delivery *in vitro* and *in vivo*." *Bioconjugate Chem.* **2014**, *25*, 1744-1751.
63. **Soleimani, A.**; **Borecki, A.**; Gillies, E. R.* "Photodegradable poly(ester amide)s for indirect light-triggered release of paclitaxel." *Polym. Chem.* **2014**, *5*, 7062-7071.
62. **Knight, D. K.**, Gillies, E. R.; **Mequanint, K.*** "Vascular grafting strategies in coronary intervention." *Frontiers Mater.* **2014**, DOI: 10.3389/fmats.2014.00004
61. **Knight, D. K.**, Gillies, E. R.; **Mequanint, K.*** "Biomimetic l-aspartic acid-derived functional poly(ester amide)s for vascular tissue engineering." *Acta Biomater.* **2014**, *10*, 3483-3496.
60. **Gobbo, P.**; **Mossman, Z.**; **Niaux, A.**; **Nazemi, A.**; **Biesinger, M. C.**; Gillies, E. R.; **Workentin, M. S.*** "Versatile Strained-Alkyne Modified Water-Soluble AuNPs for Interfacial Strain-Promoted Azide-Alkyne Cycloaddition (I-SPAAC)." *J. Mater. Chem. B.* **2014**, *2*, 1764-1769.
59. **Salem, M.**; **Rohani, S.**; Gillies, E. R.* "Curcumin, a Promising Anti-Cancer Therapeutic: A Review of its Chemical Properties, Bioactivity and Approaches to Cancer Cell Delivery." *RSC Adv.* **2014**, *4*, 10815-10829.
58. **Siu, K. S.**; **Chen, D.**; **Zheng, X.**; **Zhang, X.**; **Liu, Y.**; **Yuan, K.**; **Koropatnick, J.**; Gillies, E. R.; **Min, W.-P.*** "Topical siRNA delivery with a novel non-covalently functionalized single-walled carbon nanotube for melanoma therapy." *Biomaterials*, **2014**, *35*, 3435-3442.
57. **Marshall, K. E.**; **Thomas, R. H.**; **Roxin, A.**; **Chen, E. K. Y.**; **Brown, J. C. L.**; Gillies, E. R.; **Sinclair, B. J.*** "Seasonal accumulation of acetylated triacylglycerols by a freeze tolerant insect." *J. Exp. Biol.* **2014**, *217*, 1580-1587.
56. **Soleimani, A.**; **Drappel, S.**; **Carlini, R.**; **Goredema, A.**; Gillies, E. R.* "Structure-Property Relationships for a Series of Poly(ester amide)s Containing Amino Acids." *Ind. Eng. Chem. Res.* **2014**, *53*, 1452-1460.
55. **Trebicky, T.**; **Crewdson, P.**; **Paliy, M.**; **Bello, I.**; **Nie, H.-Y.**; **Zheng, Z.**; **Fan, X.**; **Yang, J.**; Gillies, E. R.; **Tang, C.**; **Liu, H.**; **Wong, K. W.**; **Lau, W. M.*** "Cleaving C-H Bonds with Hyperthermal H₂: Facile Chemistry to Cross-link Organic Molecules Under Low Chemical and Energy-Loads." *Green Chem.* **2014**, *16*, 1316-1325.
54. **Wu, W.**; **Karamdoust, S.**; **Turowec, B. A.**; Gillies, E. R.* "Synthesis and Application of Cinnamate-Functionalized Rubber for the Preparation of UV-Curable Films." *Eur. Polym. J.* **2013**, *49*, 4238-4248.
53. **Abd Rabo Moustafa, M. M.**; Gillies, E. R.* "Rubber Functionalization by Diels-Alder Chemistry: From Cross-linking to Multifunctional Graft Copolymer Synthesis." *Macromolecules*, **2013**, *46*, 6024-6030.
52. **McBride, R. A.**; Gillies, E. R.* "Kinetics of self-immolative degradation in a linear polymeric system: Demonstrating the effect of chain length." *Macromolecules*, **2013**, *46*, 5157-5166.
51. **Nazemi, A.**; **Haeryfar, S. M. M.**; Gillies, E. R.* "Multifunctional Dendritic Sialopolymersomes as Potential Antiviral Agents: Their Lectin Binding and Drug Release Properties." *Langmuir*, **2013**, *29*, 6420-6428.
50. **Karamdoust, S.**; **Bonduelle, C. V.**; **Amos, R. C.**; **Turowec, B. A.**; **Guo, S.**; **Ferrari, L.**; Gillies, E. R.* "Synthesis and Properties of Butyl Rubber – Poly(ethylene oxide) Graft Copolymers with High PEO Content." *J. Polym. Sci. A: Polym. Chem.*, **2013**, *51*, 3383-3394.
49. **Nazemi, A.**; Gillies, E. R.* "Dendritic Surface Functionalization of Nanomaterials: Controlling Properties and Functions for Biomedical Applications." *Braz. J. Pharm. Sci.*, **2013**, *49*, 15-32. (invited for a special issue on a Dendrimer symposium hosted in Sao Paulo)
48. **Nazemi, A.**; **Schon, T. B.**; Gillies, E. R.* "Synthesis and Degradation of Backbone Photodegradable Polyester Dendrimers" *Org. Lett.* **2013**, *15*, 1830-1833.

47. **Guterman, R.**; Berven, B. M.; Corkery, T. C.; Idacavage, M.; Nie, H.-Y.; Gillies, E. R.; Ragogna, P. J.* "New fluorinated polymerizable phosphonium salts: Surface properties of photopolymerized films". *J. Polym. Sci. A: Polym. Chem.* **2013**, *6*, 1216-1225.
46. Bonduelle, C. V.; **McEachran, M. J.**; **Karamdoust, S.**; Gillies, E. R.* "An Oxygenated Rubber Derivative as a Compatibilizer for the Preparation of Polymer Films." *J. Coatings Technol. Res.* **2013**, *10*, 733-742.
45. **Mejia, J. S.**; Gillies, E. R.* "Triggered Degradation of Poly(ester amide)s via Cyclization of Pendant Functional Groups of Amino Acid Monomers." *Polym. Chem.* **2013**, *4*, 1969-1982.
44. **Soleimani, A.**; Martinez, F.; Economopoulos, V.; Foster, P. J.; Scholl, T. J.; Gillies, E. R.* "Polymer Cross-linking: A Nanogel Approach to Enhancing the Relaxivity of MRI Contrast Agents." *J. Mater. Chem. B*, **2013**, *1*, 1027-1034.
43. Berven, B. M.; Oviasuyi, R. O.; Klassen, R. J.; Idacavage, M.; Gillies, E. R.; Ragogna, P. J.* "Self-Crosslinking Borate Anions for the Production of Tough UV-Cured Polyelectrolyte Surfaces." *J. Polym. Sci. A: Polym. Chem.* **2013**, *51*, 499-508.
42. Chen, E. K. Y.; **McBride, R. A.**; Gillies, E. R.* "Self-Immolative Polymers Containing Rapidly Cyclizing Spacers: Towards Rapid Depolymerization Rates" *Macromolecules*, **2012**, *45*, 7364-7374.
41. **Nazemi, A.**; Martinez, F.; Scholl, T. J.; Gillies, E. R.* "Biodegradable Dendritic Polymersomes as Modular, High Relaxivity MRI Contrast Agents." *RSC Adv.* **2012**, *2*, 7971-7973.
40. **Wong, A. D.**; **DeWit, M. A.**; Gillies, E. R.* "Amplified Release Through the Stimulus Triggered Degradation of Self-Immolative Dendrimers, Oligomers, and Linear Polymers." *Adv. Drug Delivery Rev.*, **2012**, *64*, 1031-1045.
39. **Amos, R. C.**; **Nazemi, A.**; Bonduelle, C. V.; Gillies, E. R.* "Tuning Polymersome Surfaces: Functionalization With Dendritic Groups." *Soft Matter*, **2012**, *8*, 5947-5958.
38. **Zilinskas, G. J.**; **Soleimani, A.**; Gillies, E. R.* "Poly(ester amide)-Poly(ethylene oxide) Graft Copolymers: Towards Micellar Drug Delivery Vehicles." *Int. J. Polym. Sci.* **2012**, Article ID 564348.
37. **Karamdoust, S.**; Yu, B.; Bonduelle, C. V.; Liu, Y.; Davidson, G.; Stojcevic, G.; Yang, J.; Lau, W. M.; Gillies, E. R.* "Preparation of Antibacterial Surfaces by Hyperthermal Hydrogen Induced Cross-Linking of Polymer Thin Films." *J. Mat. Chem.* **2012**, *22*, 4881-4889.
36. **Knight, D. K.**; **Stutchbury, R.**; Imruck, D.; Halfpap, C.; Lin, S.; Langbein, U.; Gillies, E. R.; Mittler, S.; Mequanint, K.* "Focal Contact Formation of Vascular Smooth Muscle Cells on Langmuir-Blodgett and Solvent-Cast Films of Biodegradable Poly(ester amide)s." *ACS Appl. Mater. Interfaces*, **2012**, *4*, 1303-1312.
35. Thompson, D.B.; Trebicky, T.; Crewdson, P.; **Matthew J. McEachran**; Stojcevic, G.; Arsenault, G.; Lau, W. M.; Gillies, E. R.* "Functional Polymer Laminates from Hyperthermal Hydrogen Induced Cross-linking" *Langmuir*, **2011**, *27*, 14820-14827.
34. Bonduelle, C. V.; **Karamdoust, S.**; Gillies, E. R.* "Synthesis and Assembly of Butyl Rubber-Poly(ethylene oxide) Graft Copolymers: From Surface Patterning to Resistance to Protein Adsorption." *Macromolecules*, **2011**, *44*, 6405-6415.
33. **Knight, D. K.**; Gillies, E. R.; Mequanint, K.* "Vascular Smooth Muscle Cell Interactions on Biodegradable Poly(ester amide)s." *Biomacromolecules*, **2011**, *12*, 1275-1287.
32. **DeWit, M. A.**; **Nazemi, A.**; **Karamdoust, S.**; **Beaton, A.**; Gillies, E. R.* "Design, Synthesis and Assembly of Self-Immolative Linear Block Copolymers." *ACS Symposium Series*, **2011**, *1066*, 9-21.
31. Bonduelle, C. V.; Lau, W. M.; Gillies, E. R.* "Preparation of Protein and Cell Resistant Surfaces by Hyperthermal Hydrogen Induced Cross-linking of Poly(ethylene oxide)" *ACS Appl. Mater. Interfaces*, **2011**, *3*, 1740-1748.
30. **Nazemi, A.**; **Amos, R. C.**; Bonduelle, C. V.; Gillies, E. R.* "Dendritic surface functionalization of biodegradable polymer assemblies." *J. Polym. Sci. A: Polym. Chem.* **2011**, *49*, 2546-2559.
29. **DeWit, M. A.**; Gillies, E. R.* "Design, synthesis, and cyclization of 4-aminobutyric acid derivatives: Potential candidates as self-immolative spacers" *Org. Biomol. Chem.* **2011**, *9*, 1846 - 1854.
28. **Atkins, K. M.**; Martinez, F. M.; **Nazemi, A.**; Scholl, T. J.; Gillies, E. R.* "Poly(para-phenylene ethynylene)s functionalized with Gd(III) chelates as potential MRI contrast agents." *Can. J. Chem.* **2011**, *89*, 47-56.

27. *Bonduelle, C. V.*; Gillies, E. R.* "Patterning of a butyl rubber-poly(ethylene oxide) graft copolymer revealed by protein adsorption." *Macromolecules*, **2010**, *43*, 9230-9233.
26. *DeWit, M. A.*; *Beaton, A.*; Gillies, E. R. "A reduction sensitive cascade biodegradable linear polymer." *J. Polym. Sci. A: Polym. Chem.* **2010**, *48*, 3977-3985.
25. *Isimjan, T. T.*; *De Bruyn, J.*; Gillies, E. R.* "Self-assembly of supramolecular polymers from β -strand peptidomimetic-poly(ethylene oxide) hybrids." *Macromolecules*, **2010**, *43*, 4453–4459.
24. *Bonduelle, C. V.*; Gillies, E. R.* "Dendritic guanidines as efficient analogues of cell penetrating peptides." *Pharmaceuticals*, **2010**, *3*, 636-666.
23. *Martin, A. L.*; *Hickey, J. L.*; *Ablack, A. L.*; *Lewis J. D.*; *Luyt, L. G.*; Gillies, E. R.* "Synthesis of bombesin functionalized iron oxide nanoparticles and their specific uptake in prostate cancer cells" *J. Nanoparticle Research*, **2010**, *12*, 1599-1608.
22. *DeWit, M. A.*; Gillies E. R.* "A cascade biodegradable polymer based on alternating cyclization and elimination reactions." *J. Am. Chem. Soc.* **2009**, *131*, 18327-18334.
21. *Watson, J. L.*; Gillies, E. R.* "Amphipathic β -strand mimics as potential membrane active antibiotics." *J. Org. Chem.* **2009**, *74*, 5953-5960.
20. *Atkins, K. M.*; *Lopez, D.*; *Knight, D. K.*; *Mequanint, K.*; Gillies, E. R.* "A Versatile approach for the syntheses of poly(ester amide)s with pendant functional groups." *J. Polym. Sci. A: Polym. Chem.* **2009**, *47*, 3757-3772.
19. *Martin, A. L.*; *Li, B.*; Gillies, E. R.* "Surface functionalization of nanomaterials with dendritic groups: Toward enhanced binding to biological targets." *J. Am. Chem. Soc.* **2009**, *131*, 734-741.
18. *Martin, A. L.*; *Bernas, L. M.*; *Rutt, B. K.*; *Foster, P. F.*; Gillies, E. R.* "Enhanced cell uptake of superparamagnetic iron oxide nanoparticles functionalized with dendritic guanidines." *Bioconjugate Chem.* **2008**, *19*, 2375-2384.
17. *Marquestaut, N.*; *Martin, A.*; *Talaga, D.*; *Servant, L.*; *Ravaine, S.*; *Reclusa, A.*; *Bassani, D. M.*; Gillies, E. R.; *Lagugne-Labarthe, F.** "Raman enhancement of azobenzene monolayers on substrates prepared by Langmuir-Blodgett Deposition and electron-beam lithography techniques." *Langmuir*, **2008**, *24*, 11313-11321.
16. *DeWit, M. A.*; *Wang, Z.*; *Atkins, K. M.*; *Mequanint, K.**; Gillies, E. R.* "Syntheses, characterization, and functionalization of poly(ester amide)s with pendant amine functional groups." *J. Polym. Sci. A: Polym. Chem.* **2008**, *46*, 6376-6392.
15. *Li, B.*; *Martin, A. L.* ; Gillies, E. R.* "Multivalent polymer vesicles via surface functionalization." *Chem. Commun.* **2007**, 5217-5219.
14. *Shirude, P. S.*; Gillies, E. R.; *Ladame, S.*; *Godde, F.*; *Shin-ya, K.*; *Huc, I.**; *Balasubramanian, S.** "Macrocyclic and helical oligoamides as a new class of G-quadruplex ligands." *J. Am. Chem. Soc.* **2007**, *129*, 11890-11891.
13. Gillies, E. R.; *Deiss, F.*; *Staedel, C.*; *Schmitter, J.-M.*; *Huc, I.** "Development and biological assessment of fully water soluble helical aromatic amide foldamers." *Angew. Chem. Int. Ed.* **2007**, *46*, 4081-4084.
12. *Lee, C.*; Gillies, E. R.; *Dy, E.*; *Fox, M. E.*; *Cramer, A. T.*; *Fréchet, J. M. J.**; *Szoka, F. C.** "A single dose of doxorubicin-functionalized bow-tie dendrimer cures mice bearing C-26 colon carcinomas." *Proc. Nat. Acad. Sci. USA*, **2006**, *103*, 16649.
11. Gillies, E. R.; *Dolain, C.* ; *Léger, J. M.* ; *Huc, I.** "Amphipathic helices from aromatic amino acid oligomers." *J. Org. Chem.* **2006**, *71*, 7931-7939.
10. Gillies, E. R.; *Dy, E.*; *Fréchet, J. M. J.**; *Szoka, F. C.** "Biological evaluation of polyester dendrimer-poly(ethylene oxide) "bow-tie" hybrids with tunable molecular weight and architecture." *Mol. Pharm.* **2005**, *2*, 129-138.
9. Gillies, E. R.; *Fréchet, J. M. J.** "pH-Responsive copolymer assemblies for controlled release of Doxorubicin." *Bioconjugate Chem.* **2005**, *16*, 361-368.
8. *Kwon, Y. J.*; *Standley, S. M.*; *Goodwin, A. P.*; Gillies, E. R.; *Fréchet, J. M. J.** "Directed antigen presentation using polymeric microparticulate carriers degradable at lysosomal pH for controlled immune responses." *Mol. Pharm.* **2005**, *2*, 83-91.
7. Gillies, E. R.; *Fréchet, J. M. J.** "Dendrimers and dendritic polymers in drug delivery." *Drug Disc.*

Today, **2005**, *10*, 35-43.

6. Gillies, E. R.; Goodwin, A. P.; Fréchet, J. M. J. "Acetals as pH-sensitive linkages for drug delivery." *Bioconjugate Chem.* **2004**, *15*, 1254-1263.
5. Gillies, E. R.; Fréchet, Jean M. J. "Development of acid-sensitive copolymer micelles for drug delivery." *Pure Appl. Chem.*, **2004**, *76*, 1295-1308.
4. Gillies, E. R.; **Jonsson, T. B.**; Fréchet, J. M. J. "Stimuli-responsive supramolecular assemblies of linear-dendritic copolymers." *J. Am. Chem. Soc.* **2004**, *126*, 11936-11943.
3. Gillies, E. R.; Fréchet, J. M. J. "Self-assembly of supramolecular dendritic bow-ties: Effect of peripheral functionality on association constants." *J. Org. Chem.* **2004**, *69*, 46-53.
2. Gillies, E. R.; Fréchet, J. M. J. "A new approach towards acid-sensitive copolymer micelles for drug delivery." *Chem. Commun.* **2003**, *14*, 1640-1641.
1. Gillies, E. R.; Fréchet, J. M. J. "Designing macromolecules for therapeutic applications: Polyester dendrimer-poly(ethylene oxide) "bow-tie" hybrids with tunable molecular weight and architecture." *J. Am. Chem. Soc.* **2002**, *124*, 14137-14146.

Invited presentations:

42. Université de Montreal, Montreal, Canada, Sept. 23, **2015**.
41. Royal Institute of Technology (KTH), Sweden, May 28, **2015**.
40. Department of Chemistry, University of Toronto, Aug. 28, **2014**.
39. 36th High Polymer Forum, Gananoque, Ontario, Aug. 4-7, **2014**.
38. Bogazici University, Istanbul, Turkey, Department of Chemistry, June 3, **2014**.
37. Brockhouse Institute for Materials Research, McMaster University, March 10, **2014**.
36. Ryerson University, Department of Chemistry, March 7, **2014**.
35. CROPS, Aix-Marseille Universite, Feb. 7, **2014**.
34. CINAM, Aix-Marseille Universite, Feb. 6, **2014**
33. Laboratory of Organic Polymer Chemistry, Universite Bordeaux, ENSCBP, July 18, **2013**.
32. 8th International Dendrimer Symposium, Madrid, Spain, June 23-27, **2013**.
31. Dalhousie University, Department of Chemistry, June 7, **2013**.
30. 96th Canadian Chemistry Conference and Exhibition, Quebec City, Canada, May 26-30, **2013**.
29. 245th ACS National Meeting and Exposition, New Orleans, USA, April 7-11, **2013**.
28. Dendrimers in the Context of Nanotechnology Symposium, Sao Paulo, Brazil, Oct. 1-3, **2012**.
27. Carleton University, Ottawa, Ontario, Sept. 13, **2012**.
26. Canadian Society for Chemistry Annual Meeting, Calgary, Canada, May 26-30, **2012**.
25. *Canadian Materials Science Conference*, London, Canada, June 5-8, **2012**.
24. *Center for Advanced Materials and Biomaterials Research*, London, Canada, March 30, **2012**.
23. *International Conference on Polymers and Advanced Materials*, Huatulco, Mexico, October 16-21, **2011**.
22. *Molecular Function and Imaging Symposium*, Ottawa, Canada, June 23-24, **2011**.
21. *7th International Dendrimer Symposium*, Gaithersburg, Maryland, USA, June 24-July 1, **2011**.
20. *McMaster University, Department of Chemical Engineering*, Hamilton, Canada, November 4, **2010**.
19. *Regroupement Québécois sur les Matériaux de Pointe (RQEMP)*, Orford, Canada, August 25-27, **2010**.
18. *International Workshop on Polymer Science - Novel Processes, Materials and Structures*, London, Canada, Aug. 5, **2010**.
17. *2nd Sino-Canadian Scientific Exchange on Advanced Materials*, Souzhou, China, May 15-20, **2010**.
16. *Queen's University, Chemistry Department*, Kingston, Canada, Mar. 5, **2010**.
15. *WORLDDiscoveries Research Showcase (UWO)*, London, Canada, Feb. 5, **2010**.
14. *Xerox Research Centre Canada*, Mississauga, Canada, Jan. 29, **2010**.
13. *2nd Annual LANXESS Research Symposium*, Sarnia, Canada, Dec. 5, **2008**.
12. *University of Windsor*, Windsor, Canada. Oct. 31, **2008**.
11. *Lawson Research Institute*, London, Canada. Oct. 21, **2008**.

10. *Brock University*, St. Catherines, Canada. Oct. 3, **2008**.
9. *The 4th Stimuli Responsive Polymers and Materials (STIPOMAT) Conference*, Lacanau, France, Sept. 21-24, **2008**.
8. *The 91st Conference of the Canadian Society for Chemistry*, Edmonton, Canada. May 24-28, **2008**.
7. *The 91st Conference of the Canadian Society for Chemistry*, Edmonton, Canada. May 24-28, **2008**.
6. *Wilfred Laurier University*, Waterloo, Canada, April 2, **2008**.
5. *University of Guelph, Soft Matters Seminar Series*, Guelph, Canada, January 24, **2008**.
4. *London Preclinical Cancer Magnetic Resonance Imaging Workshop*, London, Canada, November 20, **2007**.
3. *LANXESS*, Sarnia, Canada, November 13, **2007**.
2. *Western Institute for Nanomaterials Science Workshop*, London, Canada, May 14, **2007**.
1. Keynote Speaker - *Emerging Materials Knowledge Meeting on Biomaterials and Nanotechnology Research*, Laurentian University, Sudbury, Canada, March 9, **2007**.