

## André M. Beauchemin

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### EMPLOYMENT HISTORY

Professor	<i>University of Ottawa</i>	05/2015 – present
Associate Professor	<i>University of Ottawa</i>	05/2010 – 04/2015
Assistant Professor	<i>University of Ottawa</i>	08/2004 – 04/2010

### EDUCATION

Post-doctoral Fellow (Advisor: Prof. D. A. Evans)	<i>Harvard University</i>	06/01 – 06/04
Ph.D. (Advisor: Prof. A. B. Charette)	<i>Université de Montréal</i>	05/96 – 05/01
B.Sc. Honours (chemistry)	<i>Université Laval</i>	09/93 – 05/96

### SELECTED DISTINCTIONS AND HONOURS

Boehringer Ingelheim Research Excellence Award, CSC	2015
Gastprofessor, LOC, ETH Zürich	2013
University Research Chair in Synthetic Organic Chemistry	2012-17
NSERC Discovery Accelerator Supplement Award	2011
AstraZeneca Award in Chemistry	2011
American Chemical Society Petroleum Research Fund (New Directions) Awardee	2010
Early Researcher Award, Ontario	2009
University of Ottawa Excellence in Education Award	2008
Gold Medal of the Governor General	2002
Best science and engineering thesis, Université de Montréal	2002
NSERC postdoctoral fellowship	2001-03

### SELECTED ACADEMIC AND SCHOLARLY ACTIVITIES

NSERC national discovery grant committee #1504 Member	2016-2019
Polanyi awards selection committee member	2016-2018
University of Ottawa Research Chairs Evaluation Committee	2015-2018
Faculty of Science Teaching Personnel Committee	2016-
Co-chair, Organic Division, CSC National Meeting (Ottawa)	2015
NSERC national scholarship committee #179 Member/Chair	2012-2014
CSC Symposium Organizer	2010, 2011, 2013, 2015, 2017
Co-organizer, 9 <sup>th</sup> CSC Workshop for Leading Young Organic and Bioorganic Chemists	2008
Ontario Graduate Scholarship Selection Panel Member/Chair	2006-08

## PRESENTATIONS

(does not include presentations by group members)

### Invited Presentations:

[Total: 72]

**2017 (1):** University of Rochester, NY, USA, Feb 24. **2016 (8):** University of British Columbia, Nov 29; Dalhousie University, Nov 18; University of Toronto, Nov 8; Université du Québec à Montréal, Nov 1; GRC Organic Reactions & Processes, Jul 17; Peking University, School of Pharmaceutical Sciences, May 19; Shanghai Institute of Organic Chemistry, May 18; Central China Normal University, May 13. **2015 (8):** University of Calgary, Dec 4; UNC Greensboro, Nov 20; Vertex, Laval, Oct 21; Université de Sherbrooke, Jul 3; Canadian Chemistry Conference & Exhibition (CSC), June 15; AbbVie, Chigaco, May 15; ACSOC, Antalya, Turkey, Mar 18; Syngenta, Stein, Switzerland, Mar 12. **2014 (11):** Gilead Alberta, Sept 12; GRC Stereochemistry, Jul 28; GRC Heterocycles, Jun 16; CSC (Vancouver), Jun 3; Frontier Research in Advanced Organic Synthesis and Catalysis Conference Wuhan, May 28; CCNU, Wuhan, China, May 26; University of Illinois at Chicago, Apr 1; University of Victoria, Mar 20; Simon Fraser University, Mar 19; McGill University, Feb 18. **2013 (7):** Organic Syntheses Lecture, ETH Zurich, Switzerland, Nov 29; EFPL Lausanne, Switzerland, Sep 18; Delmar Chemicals, Montréal, June 19; 2<sup>nd</sup> US-Spain Workshop on Asymmetric Synthesis and Catalysis, Chicago, April 13; Keio University, Japan, Mar 27; Osaka University, Japan, Mar 26; Japan-Canada Joint International Symposium, CSJ meeting, Kyoto, Mar 23. **2012 (7):** University of Toronto, Dec 14; Merck, Rahway, USA, Jun 19; Amgen, South SF, USA, Jun 12; OmegaChem, Apr 24; Dalhousie University Apr 20; University of Saskatchewan, Mar 23; University of Regina, Mar 22. **2011 (6):** AstraZeneca EIC Symposium, Waltham, USA, Dec 6; Boehringer Ingelheim (Canada), Nov 21; CSC, Jun 6; 3<sup>rd</sup> Pharmaqam meeting, Jun 2; Université Laval, May 30; University of Western Ontario, Feb 25. **2010 (8):** 14<sup>th</sup> LTOS symposium, Aug 13; ACS NERM, Potsdam, NY, USA, Jun 4; Amgen, Cambridge, MA, USA, May 21; 78<sup>e</sup> congrès - ACFAS, May 11; Dartmouth College, USA, Apr 22; University of Texas at Austin, USA, Feb 5; uOttawa Undergraduate Chemistry Club Lecture Series, Jan 28; Concordia University, Jan 22. **2009 (4):** York University, Nov 26; Université de Sherbrooke, Oct 9; 4<sup>th</sup> Young Academic Investigators Symposium, 238<sup>th</sup> ACS National Meeting, Aug 17; University of New Brunswick, Mar 9. **2008 (7):** Brock University, Sept 19; University of Western Ontario, Aug 22; Eli Lilly & Co, Indianapolis, IN, USA, Aug 12; GRC Organic Reactions & Processes, Jul 14. (“*best poster presentations*” invited presentation); 9<sup>th</sup> CSC Workshop for Leading Young Organic and Bioorganic Chemists, May 23; Université du Québec à Montréal, Apr 14; Merck Frosst, Jan 30. **2007 (4):** Boehringer Ingelheim (Canada), Dec 5; Université de Montréal, Nov 26; AstraZeneca Montreal, Oct 22; University of Alberta, Apr 5. **2006 (3):** Université de Sherbrooke, Oct 6; 8<sup>th</sup> CSC Workshop for Leading Young Organic & Bioorganic Chemists, May 25; Université de Montréal, Jan 9.

### Contributed Presentations: (not including presentations by students)

[Total as PI: 11]

**2015** Pacifichem. **2012** uOttawa Centre for Catalysis Seminar. **2011 (1)** GRC Organic Reactions & Processes (ORP). **2010 (1)** Pacifichem. **2009 (2)** GRC Heterocyclic Chemistry; 92<sup>nd</sup> CSC. **2008 (2)** GRC ORP; 91<sup>st</sup> CSC. **2007 (2)** 234<sup>th</sup> ACS Meeting; 90<sup>th</sup> CSC. **2006 (2)** GRC ORP; 89<sup>th</sup> CSC.

## PUBLICATIONS

### Independent:

(51) Bongers, A.; Clavette, C.; Gan, W.; Gorelsky, S. I.; Betit, L.; Lavergne, K.; Markiewicz, T.; Moon, P.; Das Neves, N.; Obhi, N.; Toderian, A.; Beauchemin, A. M. Intermolecular Aminocarbonylation of Alkenes using Concerted Cycloadditions of Imino-Isocyanates. *J. Org. Chem.* **2017**, *82*, 1175-1194.

(50) Dahab, M. A.; Derasp, J. S.; Beauchemin, A. M. Thieme Chemistry Journals Awardees – Where Are They Now? A Cascade Synthesis of 1,2,4-Triazin-3(2H)-ones Using Nitrogen Substituted Isocyanates. *Synlett* **2017**, DOI: 10.1055/s-0036-1588099. (invited)

- (49) Chitale, S.; Derasp, J.; Hussain, B.; Tanveer, K.; Beauchemin, A. M. Carbohydrates as Catalysts Exploiting Intramolecularity: Efficient Alkaline Hydrations of  $\alpha$ -Amino Nitriles. *Chem. Commun.* **2016**, 13147-13150.
- (48) Bongers, A.; Ranasinghe, I.; Lemire, P.; Perozzo, A.; Vincent-Rocan, J.-F.; Beauchemin, A. M. Synthesis of Cyclic Azomethine Imines by Cycloaddition Reactions of *N*-Isocyanates and *N*-Isothiocyanates. *Org. Lett.* **2016**, *18*, 3778-3781.
- (47) An, J.; Alper, H.; Beauchemin, A. M. Copper-Catalyzed Cascade Substitution/Cyclization of *N*-Isocyanates: A Synthesis of 1-Aminobenzimidazolones. *Org. Lett.* **2016**, *18*, 3482-3485.
- (46) Vincent-Rocan, J.-F.; Beauchemin, A. M. *N*-Isocyanates, *N*-Isothiocyanates and their Masked/Blocked Derivatives: Synthesis and Reactivity. *Synthesis* **2016**, *48*, 3625-3645.
- (45) Ivanovich, R. A.; Clavette, C.; Vincent-Rocan, J.-F.; Roveda, J.-G.; Gorelsky, S. I.; Beauchemin, A. M. Intramolecular Alkene Aminocarbonylation Using Concerted Cycloadditions of Amino-Isocyanates. *Chem. Eur. J.* **2016**, *22*, 7906.
- (44) Derasp, J.; Vincent-Rocan, J.-F.; Beauchemin, A. M. Divergent Reactivity of *N*-Isocyanates with 1° and 2° Amines: Access to Pyridazinones And Triazinones *Org. Lett.* **2016**, *18*, 658-661.
- (43) Vincent-Rocan, J.-F.; Ivanovich, R. A.; Clavette, C.; Leckett, K.; Bejjani, J.; Beauchemin, A. M. Cascade Reactions of Nitrogen-Substituted Isocyanates: A New Tool in Heterocyclic Chemistry. *Chem. Sci.* **2016**, *7*, 315-328.
- (42) Bongers, A.; Moon, P. J.; Beauchemin, A. M. Kinetic Resolution of Azomethine Imines by Brønsted Acid Catalyzed Enantioselective Reduction. *Angew. Chem. Int. Ed.* **2015**, *54*, 15516-15519.
- (41) Vincent-Rocan, J.-F.; Derasp, J. S.; Beauchemin, A. M. Diversity-Oriented Heterocyclic Synthesis using Divergent Reactivity of *N*-Substituted Iso(thio)cyanates. *Chem. Commun.* **2015**, *51*, 16405-16408.
- (40) Hesp, C. R.; MacDonald, M. J.; Zhao, S.-B.; Pesant, M.; Beauchemin, A. M. Formaldehyde as Tethering Organocatalyst: Highly Diastereoselective Hydroaminations of Allylic Amines. *Org. Lett.* **2015**, *17*, 5136-5139.
- (39) Ivanovich, R. A.; Vincent-Rocan, J.-F.; Elkaeed, Eslam B.; Beauchemin, A. M. One-Pot Synthesis of Aza-Diketopiperazines Enabled by Controlled Reactivity of *N*-Isocyanate Precursors. *Org. Lett.* **2015**, *17*, 4898-4901.
- (38) Lavergne, K.; Bongers, A.; Betit, L.; Beauchemin, A. M. Modular Synthesis of Pyrazolones Using an Alkene Aminocarbonylation Reaction *Org. Lett.* **2015**, *17*, 3612.
- (37) Vincent Rocan, J.-F.; Clavette, C.; Leckett, K.; Beauchemin, A. M. A Cascade Synthesis of Amino-Hydantoins Using In Situ Generated *N*-Substituted-Isocyanates. *Chem. Eur. J.* **2015**, *21*, 3886-3890.
- (36) Hu, X.-Q.; Chen, J.-R.; Wei, Q.; Liu, F.-L.; Deng, Q.-H.; Beauchemin, A. M.; Xiao, W. J. Photocatalytic Generation of *N*-Centered Hydrazonyl Radicals: A New Strategy for Hydroamination of  $\beta,\gamma$ -Unsaturated Hydrazones. *Angew. Chem., Int. Ed.* **2014**, *53*, 12163-12167.
- (35) Hsieh, S.-Y.; Wanner, B.; Wheeler, P.; Beauchemin, A. M.; Rovis, T.; Bode, J. W. A Stereoelectronic Basis for the Kinetic Resolution of *N*-Heterocycles with Chiral Acylating Reagents. *Chem. Eur. J.* **2014**, *20*, 7228-7231. (collaboration with Rovis and Bode, sabbatical)
- (34) MacDonald, M. J.; Beauchemin, A. M. 2-(Phenylmethoxy)acetaldehyde in Encyclopedia for Reagents in Organic Synthesis, Crich, D., Ed.; Wiley. (Appeared online May **2014**)
- (33) Das Neves, N.; Raymond, M.; Beauchemin, A. M. Expedient Synthesis of 2-Oxopiperazines Using a  $S_N2$  / Cope-Type Hydroamination Sequence. *Heterocycles* **2014**, *88*, 639-650.
- (32) Dion, I.; Vincent Rocan, J.-F.; Zhang, L.; Cebrowski, P. H.; Lebrun, M.-E.; Pfeiffer, J. Y.; Bédard, A.-C.; Beauchemin, A. M. Studies on Difficult Intramolecular Hydroaminations in the Context of Four Syntheses of Alkaloid Natural Products. *J. Org. Chem.* **2013**, *78*, 12735-12749.
- (31) Clavette, C.; Vincent Rocan, J.-F.; Beauchemin, A. M. Diversity-Oriented Synthesis of Hydrazine-Derived Compounds via Amino-Isocyanates. *Angew. Chem. Int. Ed.* **2013**, *52*, 12705-12708.
- (30) Beauchemin, A. M. Recent developments in Cope-type hydroamination reactions of hydroxylamine and hydrazine derivatives. *Org. Biomol. Chem.* **2013**, *11*, 7039-7050.
- (29) Hunt, A. D.; Dion, I.; Das Neves, N.; Taing, S.; Beauchemin, A. M. Synthesis of Azomethine Imines Using an Intramolecular Alkyne Hydrohydrazination Approach. *J. Org. Chem.* **2013**, *78*, 8847-8852.
- (28) Beauchemin, A. M. Exploiting Intramolecularity. *Nature Chemistry* **2013**, *5*, 731-732. (invited News and Views article)
- (27) Garland, K.; Gan, W.; Depatie-Sicard, C.; Beauchemin, A. M. A Practical Approach to Semicarbazones and Hydrazones Derivatives via Imino-Isocyanates. *Org. Lett.* **2013**, *15*, 4074-4077.
- (26) Chigrinova, M.; McKay, C. S.; Beaulieu, L.-P. B.; Oudatchin, K. A.; Beauchemin, A. M.; Pezacki, J. P.

- Rearrangements and addition reactions of biarylazacyclooctynones and the implications to copper-free click chemistry. *Org. Biomol. Chem.* **2013**, *11*, 3436-3441. (collaboration with Pezacki)
- (25) Gan, W.; Moon, P.; Clavette, C.; DasNeves, N.; Markiewicz, T.; Toderian, A.; Beauchemin, A. M. Synthesis and Reactivity of Unsymmetrical Azomethine Imines Formed Using Alkene Aminocarbonylation. *Org. Lett.* **2013**, *15*, 1890-1893.
- (24) Habib, F.; Brunet, G.; Loiseau, F.; Pathmalingam, T.; Burchell, T. J.; Beauchemin, A. M.; Wernsdorfer, W.; Clérac, R.; Murugesu, M. Turning on Single-Molecule Magnet Behavior in a Linear {Mn<sub>3</sub>} Compound. *Inorg. Chem.* **2013**, *52*, 1296-1303. (collaboration with Murugesu)
- (23) MacDonald, M. J.; Hesp, C. R.; Schipper, D. J.; Pesant, M.; Beauchemin, A. M. Highly Enantioselective Intermolecular Hydroaminations of Allylic Amines Using Chiral Aldehydes as Tethering Catalysts. *Chem. Eur. J.* **2013**, *19*, 2597-2601.
- (22) Loiseau, F.; Beauchemin, A. M. I Intermolecular retro-Cope Hydroxylamination of Alkynes with NH<sub>2</sub>OH: (E)-1-(1-Hydroxycyclohexyl)ethanone oxime). *Org. Synth.* **2013**, *90*, 87-95.
- (21) Zhao, S.-B.; Bilodeau, E.; Lemieux, V.; Beauchemin, A. M. Hydrogen Bonding-Directed Intermolecular Cope-Type Hydroamination of Alkenes. *Org. Lett.* **2012**, *14*, 5082-5085.
- (20) Guimond, N.; MacDonald, M. J.; Lemieux, V.; Beauchemin, A. M. Catalysis through temporary intramolecularity: Mechanistic Investigations on Aldehyde-Catalyzed Cope-Type hydroamination lead to the discovery of a more efficient tethering catalyst. *J. Am. Chem. Soc.* **2012**, *134*, 16571-16577.
- (19) Clavette, C.; Gan, W.; Bongers, A.; Markiewicz, T.; Toderian, A.; Gorelsky, S. I.; Beauchemin, A. M. A Tunable Route for the Synthesis of Azomethine Imines and  $\alpha$ -Aminocarbonyl Compounds from Alkenes. *J. Am. Chem. Soc.* **2012**, *134*, 16111-16114.
- (18) Loiseau, F.; Beauchemin, A. M. Intermolecular Cope-Type Hydroamination of Alkynes. *Org. Synth.* **2013**, *90*, 87-95.
- (17) Brunet, G.; Habib, F.; Cook, C.; Pathmalingam, T.; Loiseau, F.; Korobkov, I.; Burchell, T. J.; Beauchemin, A. M.; Murugesu, M. A Novel High-Spin Tridecanuclear Ni(II) Cluster with an Azido-Bridged Core Exhibiting Disk-Like Topology. *Chem. Comm.* **2012**, *48*, 1287-1289. (collaboration with Murugesu)
- (16) MacDonald, M. J.; Schipper, D. J.; Ng, P. J.; Moran, J.; Beauchemin, A. M. A Catalytic Tethering Strategy: Simple Aldehydes Catalyze Intermolecular Alkene Hydroaminations. *J. Am. Chem. Soc.* **2011**, *133*, 20100-20103.
- (15) Dion, I.; Beauchemin, A. M. A New Approach in Asymmetric Brønsted Acid Catalysis Enabling Hydroaminations of Dienes and Allenes *Angew. Chem., Int. Ed.* **2011**, *50*, 8233-8235. (15) "Improved Cope-Type Hydroamination Reactivity of Hydrazine Derivatives" Loiseau, F.; Clavette, C.; Raymond, M.; Roveda, J.-G.; Burrell, A.; Beauchemin, A. M. *Chem. Commun.* **2011**, *47*, 562-564.
- (14) "Combining Oximes with Azides to Create a Novel 1-D[NaCo<sup>III</sup>]<sub>2</sub> System: Synthesis, Structure, and Solid-State NMR" Pathmalingam, T.; Habib, F.; Widdifield, C. M.; Loiseau, F.; Burchell, T. J.; Gorelsky, S. I.; Beauchemin, A. M.; Bryce, D. L.; Murugesu, M. *Dalton Trans.* **2010**, *39*, 1504-1510.
- (13) "Simple Reaction Conditions for the Formation of Ketonitrones from Ketones and Hydroxylamines" Pfeiffer, J. Y.; Beauchemin, A. M. *J. Org. Chem.* **2009**, *74*, 8381-8383.
- (12) "Synthesis of Pyridines and Pyrazines Using an Intramolecular Hydroamination-Based Sequence" Rizk, T.; Bilodeau, E. J.-F.; Beauchemin, A. M. *Angew. Chem., Int. Ed.* **2009**, *48*, 8325-8327.
- (11) "Hydrazides as Tunable Reagents for Hydroamination and Aminocarbonylation" Roveda, J. G.; Clavette, C.; Hunt, A. D.; Whipp, C.; Gorelsky, S. I.; Beauchemin, A. M. *J. Am. Chem. Soc.* **2009**, *131*, 8740-8741.
- (10) "Ketonitrones via Cope-Type Hydroamination of Allenes" Moran, J.; Pfeiffer, J. Y.; Gorelsky, S. I.; Beauchemin, A. M. *Org. Lett.* **2009**, *11*, 1895-1898.
- (9) "Synthesis of 2-epi-Pumiliotoxin C Via a Challenging Intramolecular Hydroamination Key Step" Lebrun, M.-E.; Pfeiffer, J. Y.; Beauchemin, A. M. *Synlett* **2009**, 1087-1090.
- (8) "The Tandem Cope-Type Hydroamination / [2,3]-Rearrangement Sequence: A Strategy to Favour the Formation of Intermolecular Hydroamination Products and Enable Difficult Cyclizations" Bourgeois, J.; Dion, I.; Cebrowski, P. H.; Loiseau, F.; Bédard, A.-C.; Beauchemin, A. M. *J. Am. Chem. Soc.* **2009**, *131*, 874-875.
- (7) "Intermolecular Cope-Type Hydroamination of Alkenes and Alkynes using Hydroxylamines" Moran, J.; Gorelsky, S. I.; Dimitrijevic, E.; Lebrun, M.-E.; Bédard, A.-C.; Séguin, C.; Beauchemin, A. M. *J. Am. Chem. Soc.* **2008**, *130*, 17893-17906.

- (6) "A Rare Ligand Bridged Ferromagnetically Coupled Mn(IV)<sub>3</sub> Complex with S = 9/2" Pathmalingam, T.; Gorelsky, S. I.; Burchell, T. J.; Bédard, A.-C.; Beauchemin, A. M.; Clérac, R.; Murugesu, M. *Chem. Commun.* **2008**, 2782-2784. (collaboration with Murugesu research group)
- (5) "Intermolecular Cope-Type Hydroamination of Alkynes Using Hydrazines" Cebrowski, P. H.; Roveda, J.-G.; Moran, J.; Gorelsky, S. I.; Beauchemin, A. M. *Chem. Commun.* **2008**, 492-493.
- (4) "Intermolecular Cope-Type Hydroamination of Alkenes and Alkynes" Beauchemin, A. M.; Moran, J.; Lebrun, M.-E.; Séguin, C.; Dimitrijevic, E.; Zhang, L.; Gorelsky, S. I. *Angew. Chem., Int. Ed.* **2008**, *47*, 1410-1413.
- (3) "Intermolecular Hydroaminations via Strained E-Cycloalkenes" Moran, J.; Cebrowski, P. H.; Beauchemin, A. M. *J. Org. Chem.* **2008**, *73*, 1004-1007.
- (2) "Strain-release Electrophilic Activation via E-Cycloalkenones" Moran, J.; Dornan, P.; Beauchemin, A. M. *Org. Lett.* **2007**, *9*, 3893-3896.
- (1) "Photoinduced 1,4-Addition of Indoles to Enones" Moran, J.; Suen, T.; Beauchemin, A. M. *J. Org. Chem.* **2006**, *71*, 676-679.

*Previous:*

- (13) "Total Synthesis of (+)-Azaspiracid-1. An Exhibition of the Intricacies of Complex Molecule Synthesis" Evans, D. A.; Dunn, T. B.; Kværnø, L.; Beauchemin, A.; Raymer, B.; Olhava, E. J.; Mulder, J. A.; Juhl, M.; Kagechika, K.; Favor, D. A. *J. Am. Chem. Soc.* **2008**, *130*, 16295-16309.
- (12) "Total Synthesis of (+)-Azaspiracid-1. Part II: Synthesis of the EFGHI- Sulfone and Completion of the Synthesis" Evans, D. A.; Dunn, T. B.; Kværnø, L.; Beauchemin, A.; Raymer, B.; Olhava, E. J.; Mulder, J. A.; Juhl, M.; Kagechika, K.; Favor, D. A. *Angew. Chem., Int. Ed.* **2007**, *46*, 4698-4703.
- (11) "Total Synthesis of (+)-Azaspiracid-1. Part I: Synthesis of the Fully Elaborated ABCD-Aldehyde" Evans, D. A.; Kværnø, L.; Mulder, J. A.; Raymer, B.; Dunn, T. B.; Beauchemin, A.; Olhava, E. J.; Juhl, M.; Kagechika, K. *Angew. Chem., Int. Ed.* **2007**, *46*, 4693-4697.
- (10) "Photoinduced Alkyl Group Exchange of Ethylzinc Alkoxides: X-Ray Crystal Structure of an Iodomethylzinc Alkoxide" Charette, A. B.; Beauchemin, A.; Francoeur, S.; Bélanger-Gariépy, F.; Enright, G. D. *Chem Commun.* **2002**, 466-467.
- (9) "Acyloxymethylzinc Reagents: Preparation, Reactivity and Solid-State Structure of this Novel Class of Cyclopropanating Reagents" Charette, A. B.; Beauchemin, A.; Francoeur, S. *J. Am. Chem. Soc.* **2001**, *123*, 8139-8140.
- (8) "The Simmons-Smith Cyclopropanation Reaction" Charette, A.B.; Beauchemin, A. *Org. React.* **2001**, *58*, 1-415.
- (7) "Reinvestigation of the Chemoselective Cyclopropanation of Allylic Alcohols, Allylic Ethers and Alkenes: a Comparison between Various Reagents and Protocols" Charette, A. B.; Beauchemin, A. *J. Organomet. Chem.* **2001**, *617-618*, 702-708.
- (6) "Preparation, Solid-State Structure, and Synthetic Applications of Isolable and Storable Haloalkylzinc Reagents" Charette, A. B.; Marcoux, J.-F.; Molinaro, C.; Beauchemin, A.; Brochu, C.; Isabel, E. *J. Am. Chem. Soc.* **2000**, *122*, 4508-4509.
- (5) "Preparation and Reactivity of Some Functionalized Halomethylzinc Carbenoids" Charette, A. B.; Beauchemin, A.; Marcoux, J.-F. *Tetrahedron Lett.* **1999**, *40*, 33-36.
- (4) "Photoinduced Synthesis of Diorganozinc and Organozinc Iodide Reagents" Charette, A. B.; Beauchemin, A.; Marcoux, J.-F. *J. Am. Chem. Soc.* **1998**, *120*, 5114-5115.
- (3) "Free Radical Addition of Diisopropyl Xantogen Disulfide with Unsaturated Systems" Beauchemin, A.; Gareau, Y. *Heterocycles* **1998**, *48*, 2003-2017.
- (2) "Studies of Triphenylsilanethiol Addition to Alkynes: Preparation of Vinyl Sulfides" Beauchemin, A.; Gareau, Y. *Phos., Sulfur and Silicon* **1998**, *139*, 187-192.
- (1) "Simple Method for the Preparation of 1,3-Dithiol-2-one and 1,3-Dithiol-2-thione" Beauchemin, A.; Gareau, Y. *Phos., Sulfur and Silicon* **1997**, *120-121*, 393-394.