

DÉTAILS PERSONNELS

Né à Montréal, QC, Canada le 9 septembre 1961.

FORMATION UNIVERSITAIRE

Stage postdoctoral (Prof. David A. Evans), Harvard University, Cambridge, MA — 1987-1989

Ph.D. (Prof. Robert K. Boeckman Jr.), University of Rochester, NY — 1987

M.Sc. (Prof. Robert K. Boeckman Jr.), University of Rochester, NY — 1985

B.Sc. en chimie, Université de Montréal, QC — 1983

EXPÉRIENCE PROFESSIONNELLE

Université de Montréal, QC — 2009-

Co-directeur du Centre en chimie verte et catalyse (regroupement stratégique FQRNT)

Université de Montréal, QC — 2005-

Titulaire de la Chaire de Recherche du Canada sur la synthèse stéréosélective des molécules bioactives

Université de Montréal, QC — 1998-

Professeur titulaire

Université de Montréal, QC — 2000-2010

Titulaire de la Chaire Industrielle CRSNG/Merck Frosst/Boehringer Ingelheim en synthèse stéréosélective des médicaments

SoluPhase Inc., Montréal, QC — 2007-2010

Directeur général scientifique

Université de Montréal, QC — 1994-1998

Professeur agrégé

Université de Montréal, QC — 1992-1994

Professeur adjoint

Université Laval, Québec, QC — 1989-1992

Professeur adjoint

EXPERTISE

Synthèse stéréosélective des composés organiques et de produits naturels

Synthèse de pipéridines et insertion C-H

Cyclopropanation asymétrique et catalyse

Amines chirales et dérivés hétérocycliques

Chimie organométallique

LANGUES PARLÉES

Français : langue maternelle; **Anglais**: maîtrise complète

POINTS SAILLANTS DE CARRIÈRE

14 distinctions importantes

189 publications scientifiques, 9 chapitres de livre, 3 brevets et 21 articles d'encyclopédie

260 conférences sur invitation, 5 séjours à titre de professeur invité et 306 actes de colloques

Formation de 38 chercheurs postdoctoraux, 35 étudiants Ph.D, 76 étudiants M.Sc. and 81 stagiaires

PRIX ET DISTINCTIONS

2010	Membre honoraire de la Israel Chemical Society
2009	Prix Alfred Bader (Société Canadienne de Chimie)
2009	Bourse de voyage pour la recherche au Japon (Japan Society for the Promotion of Science)
2008	Prix Marie-Victorin (Gouvernement du Québec)
2007	Prix Arthur C. Cope Scholar (American Chemical Society) (USA)
2007	Membre de la Société Royale du Canada : Les Académies des arts, des lettres et des sciences du Canada
2006	Prix Urgel-Archambault (ACFAS)
2006	Prix R. U. Lemieux (Société Canadienne de Chimie)
2003	Programme Enantioselective Synthetic Chemistry Research Grants (Société Canadienne de Chimie)
2002	Médaille commémorative Rutherford en chimie (Société Royale du Canada)
2002	Prix Young Explorers: Canada's Top 20 Researchers Aged <40 (Institut Canadien de Recherches Avancées)
2000-2002	Bourse E. W. R. Steacie (CRSNG)
1999	Prix Astra Pharma (Société Canadienne de Chimie)
1998	Membre de l'Institut de Chimie du Canada (ICC)
1998-1999	Prix du Academic Development Program (Chemistry Council of Merck Research Laboratories, USA)
1998	Prix Merck Frosst Centre for Therapeutic Research (Société Canadienne de Chimie)
1996-1998	Bourse de recherche Alfred P. Sloan (Fondation Alfred P. Sloan, USA)
1994-1996	Prix Eli Lilly Grantee (Eli Lilly, USA)
1991-1993	Prix du Jeune chercheur en chimie organique (BioMega/Boehringer Ingelheim)
1992-1997	Bourse Nouveau chercheur universitaire CRSNG, Université de Montréal
1989-1992	Bourse Nouveau chercheur universitaire CRSNG, Université Laval
1987-1989	Bourse postdoctorale CRSNG, Harvard University
1983-1987	Bourse Sherman Clarke, University of Rochester

ARTICLES DANS DES REVUES AVEC COMITÉ DE LECTURE

□□□□□—————2013—————

190. Beaulieu, L.-P. B.; Schneider, J. S.; Charette, A. B. Highly Enantioselective Simmons-Smith Fluorocyclopropanation of Allylic Alcohols via the Halogen Scrambling Strategy of Zinc Carbenoids. *J. Am. Chem. Soc.* **2013**, *135*, 7819-7822.
189. Pelletier, G.; Charette, A. B. Triflic Anhydride-Mediated Synthesis of Imidazo[1,5-a]azines. *Org. Lett.* **2013**, *15*, 2290-2293.
188. Ladd, C. L.; Sustac Roman, D.; Charette, A. B. Palladium-Catalyzed Ring-Opening of Cyclopropyl Benzamides: Synthesis of Benzo[c]azepine-1-ones via a C(sp³)-H Functionalization. *Tetrahedron* **2013**, *69*, 4479-4487 (Invited Contribution).
187. Ladd, C. L.; Sustac Roman, D.; Charette, A. B. Silver-Promoted, Palladium-Catalyzed Direct Arylation of Cyclopropanes: Facile Access to Spiro 3,3'-Cyclopropyl Oxindoles. *Org. Lett.* **2013**, *15*, 1350-1353.
186. Mousseau, J. J.; Charette, A. B. Direct Functionalization Processes: A Journey from Palladium, to Copper, to Iron, to Nickel, to Metal-Free Coupling Reactions. *Acc. Chem. Res.* **2013**, *46*, 412-427.
185. Lindsay, V. N. G.; Fiset, D.; Gritsch, P. J.; Azzi, S.; Charette, A. B. Stereoselective Rh₂(IBAZ)₄-Catalyzed Cyclopropanation of Alkenes, Alkynes and Allenes: Asymmetric Synthesis of Di-Acceptor Cyclopropylphosphonates and Alkylidenecyclopropanes. *J. Am. Chem. Soc.* **2013**, *135*, 1463-1470.

—————2012—————

184. Beaulieu, L.-P. B.; Zimmer, L. E.; Gagnon, A.; Charette, A. B. Highly Enantioselective Synthesis of 1,2,3-Substituted Cyclopropanes Using α -Iodo- and α -Chloromethylzinc Carbenoids. *Chem. Eur. J.* **2012**, *18*, 14784-14791.
183. Pelletier, G.; Lie, S.; Mousseau, J. J.; Charette, A. B. One-Pot Synthesis of 1-Iodoalkynes and Trisubstituted Alkenes. *Org. Lett.* **2012**, *14*, 5464-5467.
182. Beaulieu, L.-P. B.; Sustac Roman, D.; Vallée, F.; Charette, A. B. Nickel(0)/NaHMDS Adduct-Catalyzed Intramolecular Alkylation of Unactivated Arenes via a Homolytic Aromatic Substitution Mechanism. *Chem. Commun.* **2012**, *48*, 8249-8251.
181. Lemonnier, G.; Charette, A. B. Grob Fragmentation of 2-Azabicyclo[2.2.2]oct-7-ene: A Versatile Tool for the Rapid Stereoselective Synthesis of Polysubstituted Piperidines. *J. Org. Chem.* **2012**, *77*, 5832-5837.
180. Fiset, D.; Charette, A. B. Microwave-Assisted Hydrolysis: Efficient Synthesis of α -Substituted Cysteines on Multi-gram Scale. *RSC Adv.* **2012**, *2*, 5502-5505.

179. Lindsay, V. N. G.; Charette, A. B. Design and Synthesis of Chiral Heteroleptic Rh(II)-Carboxylate Catalysts: Experimental Investigations of the Halogen Bond Rigidity Effects in Asymmetric Cyclopropanation Reactions. *ACS Catal.* **2012**, *2*, 1221-1225.
178. Charette, A. B.; Bull, J. A.; Mousseau, J. J.; Pelletier, G. Synthesis of Pyridine and Dihydropyridine Derivatives by Regio- and Stereoselective Addition to *N*-Activated Pyridines. *Chem. Rev.* **2012**, *112*, 2642-2713.
177. Moreau, B.; Alberico, D.; Lindsay, V. N. G.; Charette, A. B. Catalytic Asymmetric Synthesis of Nitrocyclopropane Carboxylates. *Tetrahedron* **2012**, *68*, 3487-3496 (sur invitation).
176. Bechara, W. S.; Pelletier, G.; Charette, A. B. Controlled and Chemoselective Synthesis of Ketones and Ketimines via the Addition of Organometallic Reagents to Secondary Amides. *Nature Chem.* **2012**, *4*, 228-234.

2011

175. Mousseau, J. J.; Bull, J. A.; Ladd, C. L.; Fortier, A.; Sustac Roman, D.; Charette, A. B. Synthesis of 2- and 2,3-Substituted Pyrazolo[1,5-*a*]pyridines: Scope and Mechanistic Considerations of a Domino Direct Alkynylation and Cyclization of *N*-Iminopyridinium Ylides using Alkenyl Bromides, Alkenyl Iodides, and Alkynes. *J. Org. Chem.* **2011**, *76*, 8243-8261.
174. Jarvis, S. B. D.; Charette, A. B. Synthesis of Enantiopure Substituted Piperidines via an Aziridinium Ring Expansion. *Org. Lett.* **2011**, *13*, 3830-3833.
173. Lebel, H.; Davi, M.; Roy, M.-N.; Zeghida, W.; Charette, A. B. Olefination Reactions Using Tetraarylphosphonium (TAP)-Supported Phosphorus Ylides. *Synthesis* **2011**, 2275-2280.
172. Barbe, G.; Fiset, D.; Charette, A. B. Asymmetric Total Synthesis of (+)-Luciduline: Toward a General Approach to Related *Lycopodium* Alkaloids. *J. Org. Chem.* **2011**, *76*, 5354-5362.
171. Lindsay, V. N. G.; Nicolas, C.; Charette, A. B. Asymmetric Rh(II)-Catalyzed Cyclopropanation of Alkenes with Diaceptor Diazo Compounds: the *p*-Methoxyphenyl Ketone as a General Stereoselectivity Controlling Group. *J. Am. Chem. Soc.* **2011**, *133*, 8972-8981.
170. Sustac-Roman, D.; Takahashi, Y.; Charette, A. B. Potassium *tert*-Butoxide Promoted Intramolecular Arylation via a Radical Pathway. *Org. Lett.* **2011**, *13*, 3242-3245.

2010

169. Lemonnier, G.; Charette, A. B. Stereoselective Synthesis of 2,3,6-Trisubstituted Tetrahydropyridines via Tf₂O Mediated Grob Fragmentation: Access to Indolizidines (–)-209I and (–)-223J. *J. Org. Chem.* **2010**, *75*, 7465-7467.
168. Mousseau, J. J.; Vallée, F.; Lorion, M. M.; Charette, A. B. Umpolung Direct Arylation Reactions: Facile Process Requiring Only Catalytic Palladium and Sub-Stoichiometric Amount of Silver Salts. *J. Am. Chem. Soc.* **2010**, *132*, 14412-14414.
167. Pelletier, G.; Bechara, W. S.; Charette, A. B. Controlled and Chemoselective Reduction of Secondary Amides. *J. Am. Chem. Soc.* **2010**, *132*, 12817-12819.
166. Beaulieu, L.-P. B.; Delvos, L. B.; Charette, A. B. Dual Role of Silanol Groups in Cyclopropanation and Hiyama-Denmark Cross-Coupling Reactions. *Org. Lett.* **2010**, *12*, 1348-1351.
165. Lemire, A.; Charette, A. B. Stereoselective Syntheses of L-Pipecolic Acid and (2*S*,3*S*)-3-Hydroxypipecolic Acid From a Chiral *N*-Imino-2-Phenyl-1,2-Dihydropyridine Intermediate. *J. Org. Chem.* **2010**, *75*, 2077-2080.
164. Bull, J. A.; Mousseau, J. J.; Charette, A. B. Preparation of (*E*)-(2-Iodovinyl)benzene from Benzyl Bromide and Diiodomethane [(*E*)-β-Styryl Iodide]. *Org. Synth.* **2010**, *87*, 170-177.
163. Goudreau, S. R.; Marcoux, D.; Charette, A. B. Synthesis of Dimethyl 2-Phenylcyclopropane-1,1-Dicarboxylate Using an Iodonium Ylide. *Org. Synth.* **2010**, *87*, 115-125.
162. Voituriez, A.; Zimmer, L. E.; Charette, A. B. Preparation of a Storable Zinc Carbenoid Species and Its Application in Cyclopropanation, Chain Extension and [2,3]-Sigmatropic Rearrangement Reactions. *J. Org. Chem.* **2010**, *75*, 1244-1250.
161. Bull, J. A.; Charette, A. B. Intramolecular Simmons-Smith Cyclopropanation. Studies Into the Reactivity of Alkyl-Substituted Zinc Carbenoids, Effect of Directing Groups and Synthesis of Bicyclo[*n*.1.0]alkanes. *J. Am. Chem. Soc.* **2010**, *132*, 1895-1902.
160. Vallée, F.; Mousseau, J. J.; Charette, A. B. Iron-Catalyzed Direct Arylation: Mild Aryl and Heteroaryl Functionalization. *J. Am. Chem. Soc.* **2010**, *132*, 1514-1516.
159. Marcoux, D.; Lindsay, V. N. G.; Charette, A. B. Use of Achiral Additives to Increase the Stereoselectivity in Rh(II)-Catalyzed Cyclopropanations. *Chem. Commun.* **2010**, *46*, 910-912. (sur invitation)
158. Vanier, S. F.; Larouche, G.; Wurz, R. P.; Charette, A. B. Formal Synthesis of Belactosin A and Hormaomycin via a Diastereoselective Intramolecular Cyclopropanation of α-Nitro Diazoesters. *Org. Lett.* **2010**, *12*, 672-675.

157. Cérat, P.; Gritsch, P. J.; Goudreau, S. R.; Charette, A. B. Synthesis of Enantioenriched Allenes from 1,1-Cyclopropanediester. *Org. Lett.* **2010**, *12*, 564-567.
156. Mousseau, J. J.; Fortier, A.; Charette, A. B. Synthesis of 2-Substituted Pyrazolo[1,5-a]pyridines Through Cascade Direct Alkenylation/Cyclization Reactions. *Org. Lett.* **2010**, *12*, 516-519.
155. Mousseau, J. J.; Bull, J. A.; Charette, A. B. Copper-Catalyzed Direct Alkenylation of *N*-Iminopyridinium Ylides. *Angew. Chem. Int. Ed.* **2010**, *49*, 1115-1118.
154. Goudreau, S. R.; Charette, A. B. Defying Ring Strain: New Approaches to Cyclopropanes. *Angew. Chem. Int. Ed.* **2010**, *49*, 486-488. (sur invitation)

2009

153. Lemire, A.; Côté, A.; Janes, M. K.; Charette, A. B. Synthesis and Application of Diorganozinc Reagents: Beyond Diethylzinc. *Aldrichim. Acta* **2009**, *42*, 71-83. (sur invitation)
152. Marcoux, D.; Goudreau, S. R.; Charette, A. B. *trans*-Directing Ability of the Amide Group: Enabling the Enantiocontrol in the Synthesis of 1,1-Dicarboxy Cyclopropanes. Reaction Development, Scope, and Synthetic Applications. *J. Org. Chem.* **2009**, *74*, 8939-8955.
151. Lindsay, V. N.; Lin, W.; Charette, A. B. Experimental Evidence for the All-Up Reactive Conformation of Chiral Rhodium(II) Carboxylate Catalysts: Enantioselective Synthesis of *cis*-Cyclopropane α -Amino Acids. *J. Am. Chem. Soc.* **2009**, *131*, 16383-16385.
150. Roy, M.-N.; Poupon, J.-C.; Charette, A. B. Tetraarylphosphonium Salts as Soluble Supports for Oxidative Catalysts and Reagents. *J. Org. Chem.* **2009**, *74*, 8510-8515.
149. Beaulieu, L.-P. B.; Zimmer, L. E.; Charette, A. B. Enantio- and Diastereoselective Iodocyclopropanation of Allylic Alcohols by Using a Substituted Zinc Carbenoid. *Chem. Eur. J.* **2009**, *15*, 11829-11832.
148. Goudreau, S. R.; Charette, A. B. *In Situ* Generation of Zinc Carbenoids from Diazo Compounds and Zinc Salts: Asymmetric Synthesis of 1,2,3-Substituted Cyclopropanes. *J. Am. Chem. Soc.* **2009**, *131*, 15633-15635.
147. Zimmer, L. E.; Charette, A. B. Enantioselective Synthesis of 1,2,3-Trisubstituted Cyclopropopanes Using *gem*-Dizinc Reagents. *J. Am. Chem. Soc.* **2009**, *131*, 15624-15626.
146. Barbe, G.; Pelletier, G.; Charette, A. B. Intramolecular Pyridine Activation – Dearomatization Reaction: Highly Stereoselective Synthesis of Polysubstituted Indolizidines and Quinolizidines. *Org. Lett.* **2009**, *11*, 3398-3401.
145. Bonnaventure, I.; Charette, A. B. Stereoselective Synthesis of *N*-Heterocycles: Application of the Asymmetric Cu-Catalyzed Addition of Et₂Zn to Functionalized Alkyl and Aryl Imines. *Tetrahedron* **2009**, *65*, 4968-4976. (sur invitation)
144. Marcoux, D.; Azzi, S.; Charette, A. B. Highly Enantio- and Diastereoselective Rhodium-Catalyzed Cyclopropanation of Alkenes Using α -Cyano Diazoacetamide. Spectacular Effect of Trifluoromethanesulfonic Amide Additive. *J. Am. Chem. Soc.* **2009**, *131*, 6970-6972.
143. Goudreau, S. R.; Marcoux, D.; Charette, A. B. General Method for the Synthesis of Phenyliodonium Ylides from Malonate Esters: Easy Access to 1,1-Cyclopropane Diesters. *J. Org. Chem.* **2009**, *74*, 470-473.

2008

142. Marcoux, D.; Charette, A. B. Nickel-Catalyzed Synthesis of Phosphonium Salts from Aryl Halides and Triphenylphosphine. *Adv. Synth. Catal.* **2008**, *350*, 2967-2974.
141. Marcoux, D.; Charette, A. B. *trans*-Directing Ability of Amides in Cyclopropanation: Application to the Asymmetric Cyclopropanation of Alkenes with Diazo Reagents Bearing Two Carboxyl Groups. *Angew. Chem., Int. Ed.* **2008**, *47*, 10155-10158.
140. Barbe, G.; St-Onge, M.; Charette, A. B. Silverion-Induced Grob Fragmentation of γ -Amino Iodides: Highly Stereoselective Synthesis of Polysubstituted Piperidines. *Org. Lett.* **2008**, *10*, 5497-5499.
139. Bull, J. A.; Mousseau, J. J.; Charette, A. B. Convenient One-Pot Synthesis of (*E*)- β -Aryl Vinyl Halides from Benzyl Bromides and Dihalomethanes. *Org. Lett.* **2008**, *10*, 5485-5488.
138. Charette, A. B. Short Cuts to Complexity. *Nature* **2008**, *456*, 451-453. (sur invitation)
137. Pelletier, G.; Larivée, A.; Charette, A. B. Highly Regioselective Intermolecular Arylation of 1,2,3,4-Tetrahydropyridines. *Org. Lett.* **2008**, *10*, 4791-4794.
136. Barbe, G.; Charette, A. B. Total Synthesis of (+)-Lepadine B: Stereoselective Synthesis of Non-Racemic Polysubstituted Hydroquinolines Using a *RC-ROM* Process. *J. Am. Chem. Soc.* **2008**, *130*, 13873-13875.
135. Bull, J. A.; Charette, A. B. Improved Procedure for the Synthesis of *gem*-Diiodoalkanes by the Alkylation of Diiodomethane. Scope and Limitations. *J. Org. Chem.* **2008**, *73*, 8097-8100.
134. Legault, C. Y.; Charette, A. B.; Cozzi, P. G. Iridium Catalyzed Enantioselective Hydrogenation of *N*-Iminopyridinium Ylides: Mechanistic Insights. *Heterocycles* **2008**, *76*, 1271-1283 (Invited Contribution).
133. Lifchits, O.; Alberico, D.; Zakharian, I.; Charette, A. B. Nucleophilic Addition of Phenol Derivatives to Methyl 1-Nitrocyclopropanecarboxylates. *J. Org. Chem.* **2008**, *73*, 6838-6840.
132. Bonnaventure, I.; Charette, A. B. Probing the Importance of the Hemilabile Site of Bis(Phosphine) Monoxide

Ligands in the Copper-Catalyzed Addition of Diethylzinc to *N*-Phosphinoylimines: Discovery of New Effective Chiral Ligands. *J. Org. Chem.* **2008**, *73*, 6330-6340.

131. Lifchits, O.; Charette, A. B. A Mild Procedure for the Lewis Acid-Catalyzed Ring-Opening of Activated Cyclopropanes with Amine Nucleophiles. *Org. Lett.* **2008**, *10*, 2809-2812.
130. Desrosiers, J.-N.; Bechara, W. S.; Charette, A. B. Catalytic Enantioselective Addition of Diorganozinc Reagents to Vinyl Sulfones. *Org. Lett.* **2008**, *10*, 2315-2318. Corresponding author corrected in *Org. Lett.* **2008**, *10*, 4709-4709. (Additions/Corrections OL802157Q)
129. Charette, A. B.; Côté, A.; Desrosiers, J.-N.; Bonnaventure, I.; Lindsay, V. N. G.; Lauzon, C.; Tannous, J.; Boezio, A. A. New Methods in Asymmetric Catalysis Based on New Hemi-Labile Bidentate Ligands. *Pure. Appl. Chem.* **2008**, *80*, 881-890. (Invited Contribution)
128. Mousseau, J. J.; Larivée, A.; Charette, A. B. Palladium-Catalyzed Benzylic C–H Insertion of 2-Substituted *N*-Iminopyridinium Ylides. *Org. Lett.* **2008**, *10*, 1641-1643.
127. Ginisty, M.; Roy, M.-N.; Poupon, J.-C.; Picard, A.; Charette, A. B. Tetraarylphosphonium-Supported Carbodiimide Reagents: Synthesis, Structure Optimization and Applications. *J. Org. Chem.* **2008**, *73*, 2542-2547. Authors added in *J. Org. Chem.* **2008**, *73*, 6946-6946. (Additions/Corrections JO801495B)
126. Perreault, C.; Goudreau, S. R.; Zimmer, L. E.; Charette, A. B. Cycloadditions of Aromatic Azomethine Imines with 1,1-Cyclopropane Diesters. *Org. Lett.* **2008**, *10*, 689-692.
125. Côté, A.; Charette, A. B. General Method for the Expedient Synthesis of Salt-Free Diorganozinc Reagents Using Zinc Methoxide. *J. Am. Chem. Soc.* **2008**, *130*, 2771-2773.
124. Marcoux, D.; Charette, A. B. Palladium-Catalyzed Synthesis of Functionalized Tetraarylphosphonium Salts. *J. Org. Chem.* **2008**, *73*, 590-593.
123. Larivée, A.; Mousseau, J. J.; Charette, A. B. Palladium-Catalyzed Directed C–H Arylation of *N*-Iminopyridinium Ylides: Application to the Synthesis of (±)-Anabasine. *J. Am. Chem. Soc.* **2008**, *130*, 52-54.
122. Barbe, G.; Charette, A. B. Highly Chemoselective Metal-Free Reduction of Tertiary Amides. *J. Am. Chem. Soc.* **2008**, *130*, 18-19.

2007

121. Poupon, J.-C.; Marcoux, D.; Cloarec, J.-M.; Charette, A. B. Removal, Recovery, and Recycling of Triarylphosphonium Supported Tin Reagents for Various Organic Transformations. *Org. Lett.* **2007**, *9*, 3591-3594.
120. Desrosiers, J.-N.; Charette, A. B. Catalytic Enantioselective Reduction of β,β -Disubstituted Vinyl Phenyl Sulfones Using Bisphosphine Monoxide Ligands. *Angew. Chem., Int. Ed.* **2007**, *46*, 5955-5957.
119. Stazi, F.; Marcoux, D.; Poupon, J.-C.; Latassa, D.; Charette, A. B. Tetraarylphosphonium Salts as Soluble Supports for the Synthesis of Small Molecules. *Angew. Chem., Int. Ed.* **2007**, *46*, 5011-5014.
118. Moreau, B.; Ginisty, M.; Alberico, D.; Charette, A. B. Expedient Stereoselective Synthesis of Coronafacic Acid Through Intramolecular Diels-Alder Cyclization. *J. Org. Chem.* **2007**, *72*, 1235-1240.
117. Côté, A.; Lindsay, V. N. G.; Charette, A. B. Application of Chiral Bis(phosphine) Monoxide Ligand to Catalytic Enantioselective Addition of Dialkylzinc Reagents to β -Nitroalkenes. *Org. Lett.* **2007**, *9*, 85-87.

2006

116. Voituriez, A.; Charette, A. B. Enantioselective Cyclopropanation with TADDOL-Derived Phosphate Ligands. *Adv. Synth. Catal.* **2006**, *348*, 2363-2370.
115. Zoute, L.; Lacombe, C.; Quirion, J.-C.; Charette, A. B.; Jubault, P. Phosphonium Supported Triphenylphosphine Reagent: An Improved Access to α -Fluoro- α,β -Unsaturated Esters. *Tetrahedron Lett.* **2006**, *47*, 7931-7933. (jointly with the Jubault Group)
114. Larivée, A.; Charette, A. B. New Methodology Towards Chiral, Non-Racemic 2,5-*cis*-Substituted Piperidines via Suzuki Cross-Coupling. *Org. Lett.* **2006**, *8*, 3955-3957.
113. Focken, T.; Charette, A. B. Stereoselective Synthesis of Pyridinones: Application to the Synthesis of (–)-Barrenanzines. *Org. Lett.* **2006**, *8*, 2985-2988.
112. Lauzon, C.; Charette, A. B. Catalytic Asymmetric Synthesis of α,α,α -Trifluoromethyl Amines by the Copper Catalyzed Nucleophilic Addition of Diorganozinc Reagents to Imines. *Org. Lett.* **2006**, *8*, 2743-2745.
111. Poupon, J.-C.; Boezio, A. A.; Charette, A. B. Tetraarylphosphonium Salts as Novel Solubility Control Groups: Phosphonium Supported Triphenylphosphine and Azodicarboxylates Reagents. *Angew. Chem., Int. Ed.* **2006**, *45*, 1415-1420.
110. Desrosiers, J.-N.; Côté, A.; Boezio, A. A.; Charette, A. B. Preparation of Enantiomerically Enriched (1*S*)-1-Phenylpropan-1-amine Hydrochloride by a Catalytic Addition of Diorganozinc Reagents to Imines. *Org. Synth.* **2006**, *83*, 5-17. (Invited Contribution)
109. Côté, A.; Desrosiers, J.-N.; Boezio, A. A.; Charette, A. B. Preparation of Enantiomerically Pure (*R,R*)-BozPHOS. *Org. Synth.* **2006**, *83*, 1-4. (sur invitation)

2005

108. Moreau, B.; Charette, A. B. Expedient Synthesis of Cyclopropane α -Amino Acids by the Catalytic Asymmetric Cyclopropanation of Alkenes Using Iodonium Ylides Derived from Methyl Nitroacetate. *J. Am. Chem. Soc.* **2005**, *127*, 18014-18015.
107. Sales, M.; Charette, A. B. A Diels-Alder Approach to the Stereoselective Synthesis of 2,3,5,6-Tetra- and 2,3,4,5,6-Pentasubstituted Piperidines. *Org. Lett.* **2005**, *7*, 5773-5776.
106. Côté, A.; Charette, A. B. Multicomponent One-Pot Procedure for the Synthesis of Free α -Chiral Amines from Aldehydes. *J. Org. Chem.* **2005**, *70*, 10864-10867.
105. Lauzon, C.; Desrosiers, J.-N.; Charette, A. B. Synthesis of *N*-Diphenylphosphinoylimines Using the Kresze Reaction. *J. Org. Chem.* **2005**, *70*, 10579-10580.
104. Charette, A. B.; Mathieu, S.; Martel, J. Electrophilic Activation of Lactams with Tf_2O and Pyridine: Expedient Synthesis of (\pm)-Tetraoponerine T4. *Org. Lett.* **2005**, *7*, 5401-5404.
103. Lin W.; Charette, A. B. Rhodium Catalyzed Asymmetric Intramolecular Cyclopropanation of Substituted Allylic Cyanodiazooacetates. *Adv. Synth. Catal.* **2005**, *347*, 1547-1552.
102. Fournier, J.-F.; Mathieu, S.; Charette, A. B. Diastereoselective Zinc-Cyclopropanation of Chiral Allylic Alcohols with *gem*-Dizinc Carbenoids. *J. Am. Chem. Soc.* **2005**, *127*, 13140-13141.
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- ▶ Charette, A. B.; Lebel, H. Cyclopropanation and C-H Insertion: Other Catalysts. In *Comprehensive Asymmetric Catalysis*; Jacobsen, E. N.; Pfaltz, A.; Yamamoto, H. (Eds.); Springer-Verlag: New York, 1999; Vol. II, pp 581-603.
- ▶ Charette, A. B. Cyclopropanation Mediated by Zinc Organometallics. In *Organozinc Reagents: A Practical Approach*; Knochel, P.; Jones, P. (Eds.); Oxford University Press: New York, 1999; pp 263-285.

CONTRIBUTIONS e-EROS

- ▶ Charette, A. B. Dihydroquinine Acetate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rd233.pub2].
- ▶ Charette, A. B. Dihydroquinidine Acetate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rd232.pub2].
- ▶ Charette, A. B. 10-Camphorsulfonyl Chloride. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rc009.pub2].
- ▶ Charette, A. B. (–)-(1*S*,4*R*)-Camphanic Acid. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2009 [DOI: 10.1002/047084289X.rc007.pub2].
- ▶ Charette, A. B. Diiodomethane. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on March 15, 2009 [DOI: 10.1002/047084289X.rd240.pub2].
- ▶ Charette, A. B. Diisopropyl Methylsulfanyldifluoromethylphosphonate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on March 15, 2009 [DOI: 10.1002/047084289X.rn01022].
- ▶ Charette, A. B. Tetrabutylammonium Iodide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 15, 2008 [DOI: 10.1002/047084289X.rt018.pub2].
- ▶ Charette, A. B. Tetrabutylammonium Bromide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 17, 2007 [DOI: 10.1002/047084289X.rt011.pub2].
- ▶ Charette, A. B. Lithium Perchlorate. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 17, 2007 [DOI: 10.1002/047084289X.rl134.pub2].
- ▶ Charette, A. B. Iodomethylzinc Iodide (First Update). In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on September 17, 2007 [DOI: 10.1002/047084289X.ri033.pub2].
- ▶ Charette, A. B. Lithium Iodide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2006 [DOI: 10.1002/047084289X.rl121.pub2].
- ▶ Charette, A. B. Lithium Bromide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A.; Crich, D; Fuchs, P. L.; Molander, G. A. (Eds.); Wiley: Chichester. Published online on April 15, 2006 [DOI: 10.1002/047084289X.rl062.pub2].
- ▶ Charette, A. B. Samarium(II) Iodide (First Update). In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on October 15, 2005 [DOI: 10.1002/047084289X.rs004.pub2].
- ▶ Charette, A. B. *m*-Chloroperbenzoic Acid (First Update). In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on October 15, 2005 [DOI: 10.1002/047084289X.rc140.pub2].
- ▶ Charette, A. B. Methylenetriphenylphosphorane, Polystyrene-supported. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2004 [DOI: 10.1002/047084289X.rn00492].
- ▶ Charette, A. B. (S)-(–)-*N*-(2,2′)-Dimethylpropionyl)-2-[(diphenylphosphino)methyl]pyrrolidine. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2003 [DOI: 10.1002/047084289X.rn00220].
- ▶ Charette, A. B. (S)-3,3-Diphenyl-1-[trimethylsilylmethyl]tetrahydro-1*H*,3*H*-pyrrolo[1,2-*c*][1,3,2]oxazaborole. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2003 [DOI: 10.1002/047084289X.rn00202].
- ▶ Charette, A. B. (*R,R*)-2-Butyl-4,5-bis(dimethylaminocarbonyl)-1,3-dioxaborolane. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2002 [DOI: 10.1002/047084289X.rn00044].

- ▶ Charette, A. B. Tetramethylammonium Bromide. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2001 [DOI: 10.1002/047084289X.rt056].
- ▶ Charette, A. B. 3-Bromocamphor-8-sulfonic Acid. In *Electronic Encyclopedia of Reagents for Organic Synthesis (EROS)*; Paquette, L. A. (founding Ed.); Crich, D (Ed.-in-Chief); Wiley: Chichester. Published online on April 15, 2001 [DOI: 10.1002/047084289X.rb283].

BREVETS

- ▶ Austad, B.; Behnke, M. L.; Castro, A. C.; Charette, A. B.; Grogan, M. J.; Janardanannair, S.; Lescarbeau, A.; Peluso, S.; Tremblay, M. R. Cyclopamine Analogs. Published on July 10, 2008 (WO2008083248).
- ▶ Charette, A. B.; Côté, A. Methods for Preparing Diorganozinc Compounds. Published on November 13, 2008 (WO 2008134890).
- ▶ Charette, A. B.; Poupon, J.-C.; Boezio, A. A. Phosphonium Salt Derivatives and Their Use as Solubility Controlling Auxiliaries. Published on October 20, 2005 (WO 2005097812).

SÉJOURS À TITRE DE PROFESSEUR INVITÉ

Université Claude Bernard Lyon 1, Lyon, France — **Mars 2013**

Bourse de voyage JSPS, Japon — **Févr. 2009**

IRCOF-INSA de Rouen, Mont Saint-Aignan, France — **Oct./Nov. 2008**

Université Louis Pasteur, Strasbourg, France — **Mai 2005**

Université Pierre et Marie Curie, Paris, France — **Avr. 2001**

Beijing Medical University, Beijing, Chine — **Oct. 2000**

CONFÉRENCES SUR INVITATION

▶ Total à ce jour: 260

- 2013** ACS North East Regional Meeting (NERM), New Haven, CT, 23-26 oct.
 Université de Bordeaux 1, Bordeaux, France, 26 juin.
 Mini-Symposium on Green Chemistry, Univ. Federal do Paraná, Curitiba, Brésil, 15 mai.
 Mini-Symposium on Green Chemistry, Univ. Estadual de Campinas, Campinas, Brésil, 13 mai.
 Bayer S.A.S., Lyon, France, 4 avr.
 Novartis Pharma AG, Bâle, Suisse, 26 mars.
 Univ. Claude Bernard Lyon 1, Lyon, France, 14 mars, 21 mars et 28 mars.
 Univ. d'Orléans, Orléans, France, 19 mars.
 Univ. de Rouen, Rouen, France, 18 mars.
 Univ. de Marseille, Marseille, France, 15 mars.
- 2012** Univ. Geneva, Genève, Suisse, 14 déc.
 École Polytechnique Fédérale de Lausanne, Lausanne, Suisse, 13 déc.
 Gilead Sciences, Foster City, CA, 11 oct.
 Theravance, South San Francisco, CA, 10 oct.
 Groupe d'Études en Chimie Organique (GECO-53), Sévrier, France, 26-31 août.
 Balticum Organicum Syntheticum 2012 (BOS-2012), Tallinn, Estonie, 1-4 juil.
 Cegep Bois-de-Boulogne, Montréal, QC, 3 févr.
- 2011** Alphora Research, Mississauga, ON, 11 nov.
 60th Natural Products Gordon Research Conference, Bryant Univ., Smithfield, RI, 24-29 juil.
 Lundbeck Research USA Inc., Paramus, NJ, 16 juin.
 94th CSC Conference, Montréal, QC, 5-9 juin.
 Collège Ahunstic, Montréal, QC, 31 mars.
 Queen's Univ., Kingston, ON, 9 févr.
- 2010** Galderma R&D, Biot, France, 19 nov.
 Johnson & Johnson PRD, San Diego, CA, 21 oct.
 First China Canada Bilateral Symposium on Catalysis, Kunming, Chine, 7-11 oct.
 Massachusetts Institute of Technology (Conférencier Bristol-Myers Squibb), Cambridge, MA, 25 mars.
 239th ACS Meeting, San Francisco, CA, 21-24 mars.
 Schulich Symposium on New Concepts in Organic Synthesis, Haifa, Israël, 24 janv.

Tel Aviv University, Tel Aviv, Israël, 20 janv.
Weizmann Institute of Science, Haifa, Rehovot, 19 janv.
Technion-Israel Institute of Technology, Haifa, Israël, 18 janv.

- 2009** Sepracor, Marlborough, MA, 28 sept.
Univ. of Waterloo, Waterloo, ON, 20 août.
Univ. de Sherbrooke, Sherbrooke, QC, 6 juil.
92nd CSC Conference, Hamilton, ON, 30 mai-3 juin.
Merck, Rahway, NJ, 27 mai.
Modern Synthetic Methods & Chiral USA Conference, Chicago, IL, 11-13 mai.
Univ. of Victoria, Victoria, BC, 26 mars.
Simon Fraser Univ., Burnaby, BC, 25 mars.
Univ. of British Columbia, Vancouver, BC, 24 mars.
Pittcon Conference & Expo, Chicago, IL, 8-13 mars.
Univ. of Tokyo, Tokyo, Japon, 13 févr.
Tokyo Institute of Technology, Tokyo, Japon, 12 févr.
Hokkaido Univ., Hokkaido, Japon, 9 févr.
Kumamoto Univ., Kumamoto, Japon, 6 févr.
Kyushu Univ., Kyushu, Japon, 5 févr.
Osaka Univ., Osaka, Japon, 4 févr.
Kyoto Univ. (Katsura Campus), Kyoto, Japon, 3 févr.
Kyoto Univ., Kyoto, Japon, 2 févr.
- 2008** Univ. de Rennes, Rennes, France, 5 déc.
Institut de recherche Servier, Suresnes, France, 4 déc.
IRCOF-INSA de Rouen, Mont Saint-Aignan, France, 21 nov.
Boston Univ., Boston, MA, 3 nov.
ACS ProSpectives Conference, Philadelphie, PA, 26-28 oct.
Univ. München, Munich, Allemagne, 21 oct.
Univ. de Caen, Caen, France, 17 oct.
Janssen-Cilag, Val-de-Reuil, France, 16 oct.
Univ. Pierre et Marie Curie, Paris VI, Paris, France, 13 oct.
IRCOF-INSA de Rouen, Mont Saint-Aignan, France, 10 oct.
Pfizer, Groton, CT, 1 oct.
Indiana Univ.-Purdue Univ. Indianapolis, Indianapolis, IN, 24 sept.
20th International Symposium on Chirality (ISCD-20), Genève, Suisse, 6-9 juil.
ACS North East Regional Meeting (NERM), Burlington, VT, 29 juin-2 juil.
GlaxoSmithKline, Verone, Italie, 16 juin.
Amgen, Cambridge, MA, 6 juin.
91st CSC Conference, Edmonton, AB, 24-28 mai.
9th Organic Workshop for Leading Young Canadian Chemists, Hinton, AB, 21-24 mai.
Hoffmann-La Roche, Nutley, NJ, 15 mai.
- 2007** Xenon Pharmaceuticals, Burnaby, BC, 23 oct.
First International Conference on SFC, Pittsburgh, PA, 23-25 sept.
234th ACS Meeting, Boston, MA, 19-23 août.
OMCOS-14, Nara, Japon, 2-6 août.
AstraZeneca R&D Montréal, St-Laurent, QC, 20 juin.
Synthesis Day, Ottawa, ON, 18 juin.
Bristol-Myers Squibb, New Brunswick, NJ, 14 juin.
8th Symposium on Carbanion Chemistry, Univ. Wisconsin, Madison, WI, 6-10 juin.
90th CSC Conference, Winnipeg, MB, 26-30 mai.
Amgen, Thousand Oaks, CA, 11 mai.
Univ. of California-Santa Barbara, CA, 10 mai.
Univ. of Toronto, ON, 21 févr.
GlaxoSmithKline, King of Prussia, PA, 12 janv.
- 2006** Université Laval, Québec, QC, 15 déc.
Merck & Co., West Point, PA, 7 nov.

Univ. of Saskatchewan, Saskatoon, SK, 3 oct.
Genentech, San Francisco, CA, 15 sept.
Gordon Research Conference on Stereochemistry, Salve Regina College, Newport, RI, 18-23 juin.
89th CSC Conference, Halifax, NS, 27-31 mai.
74^e Congrès de l'ACFAS, Montréal, QC, 15-19 mai.
Univ. of Rochester (Conférences de prestige Kende), Rochester, NY, 27 févr.-2 mars.

- 2005** Pacificchem, Honolulu, HI, 15-20 déc.
University College London, Londres, Royaume-Uni, 6 déc.
Univ. of Cambridge, Royaume-Uni, 5 déc.
GlaxoSmithKline (Stevenage, Harlow, Tonbridge), Royaume-Uni, 1-2 déc.
McGill Univ., Montréal, QC, 29 nov.
Diverses conférences en France (Rouen, Mulhouse, Strasbourg, Nancy, Reims), 18-28 oct.
Merck Symposium, UC Irvine, CA, 17 sept.
230th ACS National Meeting, Washington, DC, 28 août-1 sept.
Gilead Sciences, Foster City, CA, 16 juin.
88th CSC Conference, Saskatoon, SK, 28 mai-1 juin.
Infinity Pharmaceuticals, Cambridge, MA, 25 avr.
Boston College, Boston, MA, 5 avr.
Univ. at Buffalo (State University of New York), Buffalo, NY, 26 janv.
Univ. of Pennsylvania, Philadelphia, PA, 24 janv.
- 2004** Dalhousie Univ., Halifax, NS, 3 déc.
Diverses conférences en Europe (Göttingen, Bâles, Strasbourg, Biberach), 14-22 nov.
ACS North East Regional Meeting (NERM), Rochester, NY, 1-2 nov.
3rd International Boehringer Ingelheim Chemistry Meeting, Mont-Tremblant, QC, 18-20 oct.
Univ. of Alberta, Edmonton, AB, 27 sept.
26th Gulf Coast Conference, Pensacola, FL, 9-11 sept.
IUPAC ICOS-15, Nagoya, Japon, 1-6 août.
Univ. of Tokyo, Japon, 8 juil.
Osaka Prefecture Univ., Osaka, Japon, 7 juil.
Nara Institute of Science and Technology (NAIST), Nara, Japon, 6 juil.
ISIS 2004, Hyogo, Japon, 4-5 juil.
Univ. of Calgary, AB, 29 juin.
Boehringer Ingelheim Pharma, Biberach, Allemagne, 15 juin.
French-American Chemical Society Symposium (FACS X), Charleston, SC, 6-10 juin.
North Jersey ACS Spring Symposium, Rutgers Univ., New Brunswick, NJ, 27 mai.
Univ. of Illinois at Urbana-Champaign (Conférencier Bristol-Myers Squibb), Urbana, IL, 22 avril.
California Institute of Technology, Pasadena, CA, 3 mars.
Johnson & Johnson Pharmaceuticals, Raritan, NJ, 6 févr.
- 2003** Queen's Univ., Kingston, ON, 28 nov.
Utrecht Univ., Pays-Bas, 23-24 oct.
Paul Walden 3rd Symposium on Organic Chemistry, Riga, Lettonie, 13-14 oct.
Gordon Conference on Organic Reactions & Processes, Bristol, RI, 20-25 juil.
Serono Reproductive Biology Institute, Rockland, MA, 10 juin.
- 2002** COST D12 Workshop, Arcachon, France, 25-30 sept.
Conférences de prestige Novartis en Europe (Horsham, Vienne, Bâles), 20-25 sept.
Boehringer Ingelheim, Vienne, Autriche, 23 août.
Syngenta, Bâle, Suisse, 22 août.
Schering-Plough Research Institute, Kenilworth, NJ, 20 juin.
Gordon Conference on Stereochemistry, Salve Regina Univ., Newport, RI, 9-14 juin.
AnorMED, Langley, BC, 6 juin.
85th CSC Conference, Vancouver, BC, 1-6 juin.
223rd ACS National Meeting, Orlando, FL, 7-11 avr.
Univ. de Nice Sophia Antipolis, Nice, France, 4-5 avr.
Sepracor/IBC 3rd International Symposium on New Synthetic Methods, Naples, FL, 11-13 mars.
ETH Hönggerberg, Zurich, Suisse, 30 janv.
Univ. Tübingen, Allemagne, 22 janv.
Univ. Stuttgart, Allemagne, 21 janv.
- 2001** Forum Innovation, ADRIQ, Montréal, QC, 22 nov.
Univ. of Ottawa, ON, 16 nov.

Merck, Rahway, NJ, 7 nov.
DSM Research, Geleen, Pays-Bas, 11 sept.
GECO 42, Batz-sur-Mer, France, 2-7 sept.
9th Brazilian Meeting on Organic Synthesis, Curitiba, Brésil, 20-24 août.
Aventis, Bridgewater, NJ, 20 juin.
École Polytechnique, Palaiseau, France, 27 avr.
Ludwig Maximilians Univ., Munich, Allemagne, 23 avr.
ICSN, Gif-sur-Yvette, France, 5 avr.
Univ. d'Orsay, France, 3 avr.
Univ. Pierre et Marie Curie, Paris, France, 2 avr.
Colorado State Univ. (Conférencier Roche), Fort Collins, CO, 19 mars.
Roche, Nutley, NJ, 8 févr.
Univ. of Victoria (Conférencier Merck Frosst), Victoria, BC, 18 janv.

2000 Pacificchem, Honolulu, HI, 14-19 déc.
Wyeth-Ayerst, Pearl River, NY, 10 nov.
Medical Univ. of Beijing, Chine, 16-26 oct.
Boehringer Ingelheim Pharma, Biberach, Allemagne, 26 sept.
Diverses conférences plénières en Suisse (5), 17-22 sept.
AstraZeneca R&D, Montréal, QC, 2 août.
Boehringer Ingelheim, Ridgefield, CT, 25 juil.
Boehringer Ingelheim, Laval, QC, 13 juin.
83th CSC Conference, Calgary, AB, 27-31 mai.
Ohio State Univ. (Conférencier Hoechst Marion Roussel), Columbus, OH, 25 mai.
National Natural Science Foundation of China, Beijing, Chine, 11-22 mai.
35th Euchem Conference on Stereochemistry, Bürgenstock, Suisse, 29 avr.- 5 mai.
Pharmacia-Upjohn, Kalamazoo, MI, 2 avr.
Univ. of Minnesota, Rochester, MN, 24 mars.
Univ. of North Dakota, Grand Forks, ND, 23 mars.
Montana State Univ., Bozeman, MT, 10 mars.

1999 Merck, West Point, PA, 18 nov.
Yale Univ., New Haven, CT, 17 nov.
McGill Univ., Montréal, QC, 5 nov.
Univ. of Rochester, NY, 22 oct.
Emory Univ., Atlanta, GA, 20 oct.
Purdue Univ., West Lafayette, IN, 5 oct.
Indiana Univ., Bloomington, IN, 4 oct.
BP Amoco Chemicals, Suburry, Angleterre, 1 juil.
Bio-Méga/BIR, Laval, QC, 17 juin.
82nd CSC Conference, Toronto, ON, 31 mai-5 juin.
BP Amoco Chemicals, Chicago, IL, 20 mai.
67^e Congrès de l'ACFAS, Ottawa, ON, 10 mai.
SISOUM, Univ. de Montréal, QC, 15 avr.
Sepracor, Marlborough, MA, 29 mars.
Tanabe Research Laboratories, San Diego, CA, 5 mars.

1998 Harvard Univ., Cambridge, MA, 30 nov.
York Univ., North York, ON, 19 nov.
8th Symposium on the Latest Trends in Organic Synthesis, Gainesville, FL, 28 oct-1 nov.
Univ. of Toronto, ON, 18 sept.
Univ. Louis Pasteur, Strasbourg, France, 11 sept.
Belgium Organic Synthesis Symposium, Louvain-la-Neuve, Belgique, 5-8 juil.
81st CSC Conference, Whistler, BC, 31 mai-4 juin.
Syntex/Roche Symposium in Organic Synthesis, Colorado Univ., Boulder, CO, 20 mai.
66^e Congrès de l'ACFAS, Québec, QC, 12 mai.
Bio-Méga/BIR, Laval, QC, 5 mai.
Bristol-Myers Squibb, Princeton, NJ, 16 mars.
Univ. of California, Irvine, CA, 4 mars.
Ligand Pharmaceuticals, San Diego, CA, 3 mars.
Merck Frosst, Kirkland, QC, 26 janv.
7th IUPAC Symposium on the Chemistry of Natural Products, Karachi, Pakistan, 28 déc.-2 janv.

1997 Entretiens Jacques Cartier, Lyon, France, 8-11 déc.

Univ. de Namur, Belgique, 5 déc.
Univ. Libre de Bruxelles, Belgique, 4 déc.
École Polytechnique, Palaiseau, France, 3 déc.
Société Française de Chimie, Paris, France, 2 déc.
5th Chemical Congress of North America, Cancùn, Mexique, 11-15 nov.
Boehringer Ingelheim, Ridgefield, CT, 18 sept.
CIC Meeting, Waterloo, ON, 8 juin.
Univ. Pierre et Marie Curie, Paris, France, 20 mai.
Diverses conférences en Suisse (Lausanne, Genève, Fribourg, Neuchâtel), 2-12 mai.
Merck, Rahway, NJ, 24 avr.

- 1996** Rohm & Haas, Spring House, PA, 5 déc.
Simon Fraser Univ., Burnaby, BC, 23 oct.
Pfizer, Groton, CT, 11 oct.
Gordon Research Conference on Heterocycles, Holderness, NH, 7-12 juil.
Dartmouth College, Hanover, NH, 29 mai.
64^e Congrès de l'ACFAS, Montréal, QC, 13-17 mai.
Abbott Symposium on Asymmetric Synthesis, Univ. of Chicago, IL, 29 avr.
Eli Lilly Symposium, Indianapolis, IN, 4-5 mars.
- 1995** Pacificchem, Honolulu, HI, 17-22 déc.
Gordon Research Conference on Natural Products, New England College, Henniker, NH, 2-8 juil.
CIC Symposium, Waterloo, ON, 12 juin.
McGill Univ., Montréal, QC, 10 janv.
- 1994** Univ. of Alberta, AB, 28 nov.
Univ. of British Columbia, Vancouver, BC, 25 nov.
Univ. of Victoria, BC, 27 nov.
École Polytechnique, Palaiseau, France, 30 juin.
ICSN, Gif-sur-Yvette, France, 28 juin.
Eli Lilly, Indianapolis, IN, 20 juin.
Univ. of Rochester, NY, 25 mars.
Sandoz Research Institute, East Hanover, NJ, 7 févr.
- 1993** Univ. of Toronto, ON, 22 nov.
Gordon Research Conference on Organic Reactions & Processes, New Hampton, NH, 12-16 juil.
24th NSF Workshop on Organic Synthesis, Aspen, CO, 20-24 juin.
CIC Meeting, Sherbrooke, QC, 31 mai.
205th ACS National Meeting, Denver, CO, 1 avr.
Univ. of Western Ontario, London, ON, 27 janv.
- 1992** 9th IUPAC Symposium on Organic Synthesis, Montréal, QC, 1 juil.
6 invitations avant 1992.

AFFILIATIONS PROFESSIONNELLES

- 2011-** Réseau québécois de recherche sur les médicaments (RQRM)
2009- Centre en chimie verte et catalyse (CGCC)
2007- Société Royale du Canada (SRC)
2003- Groupe de Recherche Universitaire sur le Médicament (GRUM)
1995- American Association for the Advancement of Science
1990- Ordre des chimistes du Québec
1984- American Chemical Society (USA)
1984- Société Canadienne de Chimie (SCC)

AFFILIATIONS À DES COMITÉS/COMMISSIONS

▶ **Consultations industrielles**

▶ **Consultations annuelles**

Galderma R&D — **2010-2013**
Boehringer Ingelheim (Canada) Ltd. — **1999-2012**
Genentech Inc. — **2012**
Santai Labs Inc. — **2011-2012**

SoluPhase Inc. — **2007-2010**
Infinity Pharmaceuticals Inc. — **2005-2006**
MIGENIX Inc. (membre du comité-conseil scientifique) — **2003-2004**
Teratechnologies Inc. — **2001-2002**
Silicycle Inc. (membre du comité-conseil scientifique) — **1998-2001**
BP/Amoco — **1999-2000**

▶ **Consultations ponctuelles**

Bayer S.A.S., Lyon, France — **2013**
Novartis Pharma AG, Basel, Switzerland — **2013**
Gilead Sciences Inc., Foster City, CA — **2012**
Theravance Inc., Foster City, CA — **2012**
Alphora Research Inc., Mississauga, ON — **2011**
Lundbeck Research USA Inc., Paramus, NJ — **2011**
Galderma R&D, Sofia-Antipolis, France — **2010**
Johnson & Johnson PRD, San Diego, CA — **2010**
Sepracor Inc., Marlborough, MA — **2009**
Merck & Co., Rahway, NJ — **2009**
Pfizer Inc., Groton, CT — **2008**
Amgen Inc., Cambridge, MA — **2008**
Hoffmann-La Roche Inc., Nutley, NJ — **2008**
Amgen Inc., Thousand Oaks, CA — **2007**
Genentech Inc., San Francisco, CA — **2007**
Bristol-Myers Squibb Co., New Brunswick, NJ — **2007**
Merck & Co., West Point, PA — **2006**
Gilead Sciences Inc., Foster City, CA — **2005**
Cintech Agroalimentaire, Ste-Hyacinthe, QC — **2004**
Boehringer Ingelheim Pharma GmbH, Biberach, Germany — **2004**
Serono Reproductive Biology Institute, Rockland, MA — **2003**
Boehringer Ingelheim Austria GmbH, Vienna, Austria — **2002**
Anormed Inc., Burnaby, BC — **2002**
Merck & Co., Rahway, NJ — **2001**

▶ **Consultation à titre de témoin expert**

Cabinet d'avocats Gowling Lafleur Henderson LLP, Toronto, ON — **2011-2012**
Cabinet d'avocats Smart & Biggar, Toronto, ON — **2006-2009**
Cabinet d'avocats Ogilvy-Renaud, Montréal, QC — **2004-2006**

▶ **Comités de rédaction**

Membre du conseil de rédaction, *Encyclopedia of Reagents for Organic Synthesis (e-EROS)* — **2009-**
Membre du comité consultatif de rédaction, *Synlett, Synthesis* — **2009-**
Membre du conseil de rédaction, *Organic Reactions* — **2001-2013**
Membre du comité consultatif international de rédaction, *Org. Biomol. Chem.* — **2002-2006**
Rédacteur de volume, *Science of Synthesis*, Vol. 22 — **2001-2005**
Directeur scientifique, *Revue Can. de chimie (Can. J. Chem., édition française, chimie organique)* — **1997-2009**
Rédacteur adjoint, *Molecules Online*, Springer-Verlag — **1997-1999**

▶ **Comités organisateurs**

Organisateur, 4^e conférence annuelle du CCVC, Univ. Montréal (Montréal, QC) — **2012**
Organisateur de colloque, 80^e Congrès de l'ACFAS (Montréal, QC) — **2012**
Organisateur, 3^e conférence annuelle du CCVC, Univ. Laval (Québec, QC) — **2011**
Organisateur de colloque, 94th CSC Conference (Montréal, QC) — **2011**
Organisateur de programme technique, Pacificchem (Honolulu, HI) — **2010**

Organisateur, 2^e conférence annuelle du CCVC, McGill Univ. (Montréal, QC) — **2010**
Organisateur de colloque, 78^e Congrès de l'ACFAS (Montréal, QC) — **2010**
Organisateur, 1^e conférence annuelle du CCVC, Univ. Montréal (Montréal, QC) — **2009**
Organisateur, 15^e Entretiens du Centre Jacques Cartier (Lyon, France) — **2002**
Organisateur de la Division organique, 84th CSC Conference (Montréal, QC) — **2001**
Membre du conseil de direction, Division de chimie organique de la SCC — **1999-2003**
Organisateur de colloque, Pacificchem (Honolulu, HI) — **2000**
Organisateur, 13^e Entretiens du Centre Jacques Cartier (Montréal, QC) — **2000**

▶ **Comités d'évaluation**

AERES: évaluation du centre de recherche UPR 2301, ICSN, Gif-sur-Yvette, France — **janv. 2009**
AERES : évaluation de 4 centres de recherche du CNRS, Paris, France — **janv. 2008**
Cercle-CRSNG : évaluation du système de financement en chimie, Edmonton, AB — **oct. 2001**
CRSNG (subvention de R&D coopérative) : visite sur place à York Univ., Toronto, ON — **juin 2006**

▶ **Comités de sélection**

Comité consultatif des subventions aux universités-industrie, CRSNG — **2010-2013**
Prix Marie-Victorin, Gouvernement du Québec — **2010-2011**
Prix Urgel-Archambault, ACFAS — **2009**
Élection de nouveaux membres, Académie des Sciences, Société Royale du Canada — **2009**
Élection de nouveaux membres, Académie des Sciences, Société Royale du Canada — **2008**
Prix d'excellence en chimie, AstraZeneca — **2007**
Prix Thieme/IUPAC en chimie organique de synthèse — **2006**
Médaille d'or Gerhard Herzberg, CRSNG — **2006**
Centre International des Sciences et de la Technologie, CRSNG — **2005**
Bourse Senior Research, Fondation Croucher (Hong Kong) — **2005**
Subvention Competitive Earmarked Research Grant, Research Grant Council (Hong Kong) — **2005**
Bourse E.W.R. Steacie, CRSNG — **2004-2005**
Prix Alfred Bader, SCC — **2004**
Fonds Ichikizaki pour les jeunes chimistes, SCC — **2003**
Fonds de relève, FCI — **2002**
Subvention FQRNT — **2001-2003**
Prix Cottrell Scholar, Research Corporation (USA) — **2000-2002**
Chaire de recherche du Canada, CRSNG — **2000-2001**
Subvention CRSNG (Comité 024) — **1999-2002**
Subvention FCAR — **1998-1999**
Subvention FCAR Action Concertée (chimie combinatoire) — **1998**
Subvention FCAR Équipe — **1994-1995, 2002**
Subvention FCAR — **1993-1994**

FORMATION DE PERSONNEL HAUTEMENT QUALIFIÉ

- ▶ **Actuels** : 2 chercheurs postdoctoraux; 5 étudiants Ph.D.; 5 étudiants M.Sc; 2 stagiaires.
- ▶ **Anciens** : 36 chercheurs postdoctoraux; 30 étudiants Ph.D.; 76 étudiants M.Sc.; 81 stagiaires.

ACTES DE COLLOQUES

Au fil des ans, les membres du groupe ont présenté de nombreux exposés ou affiches dans le cadre de conférences nationales et internationales. Ci-dessous se trouvent les noms et dates de tous les actes de colloques auxquels ils ont participé jusqu'à ce jour.

- ▶ 96th Canadian Chemistry Conference and Exhibition, Québec, QC, 26-30 mai 2013
- ▶ 4^e Conférence annuelle du Centre en chimie verte et catalyse, Montreal, QC, 10 mai 2012
- ▶ 80^e Congrès de l'ACFAS, Montréal, QC, 7-11 mai 2012
- ▶ 243rd ACS National Meeting, San Diego, CA, 25-29 mars 2012
- ▶ 8th CRC International Symposium on Organometallics & Catalysis, Toronto, ON, 4 févr. 2012

- ▶ 3^e Conférence annuelle du Centre en chimie verte et catalyse, Québec, QC, 9 déc. 2011
- ▶ 22nd Québec-Ontario Minisymposium in Synthetic and Bio-Organic Chemistry (QOMSBOC), Montréal, QC, 11-13 nov. 2011
- ▶ 94th Canadian Chemistry Conference and Exhibition, Montréal, QC, 5-9 juin 2011
- ▶ 241st ACS National Meeting, Anaheim, CA, 27-31 mars 2011
- ▶ 240th ACS National Meeting, Boston, MA, 22-26 août 2010
- ▶ 93rd Canadian Chemistry Conference and Exhibition, Toronto, ON, 29 mai-2 juin 2010
- ▶ 78^e Congrès de l'ACFAS, Montréal, QC, 10-13 mai 2010
- ▶ Keith Fagnou Organic Chemistry Symposium (KFOS), Ottawa, ON, 5-7 mai 2010
- ▶ 1^e Conférence annuelle du Centre en chimie verte et catalyse, Montréal, QC, 11 déc. 2009
- ▶ 12th Annual Chemistry & Biochemistry Graduate Research Conference, Montréal, QC, 20-21 nov. 2009
- ▶ 20th Québec-Ontario Minisymposium (QOMSBOC), Québec, QC, 30 oct.-1 nov. 2009
- ▶ 238th ACS National Meeting, Washington, DC, 16-20 août 2009
- ▶ 92nd Canadian Chemistry Conference and Exhibition, Hamilton, ON, 30 mai-3 juin 2009
- ▶ 77^e Congrès de l'ACFAS, Ottawa, ON, 13-14 mai 2009
- ▶ 19th Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, 7-9 nov. 2008
- ▶ AstraZeneca Chemistry Symposium, AstraZeneca R&D Montréal, Montréal, QC, 3 oct. 2008
- ▶ 236th ACS National Meeting, Philadelphie, PA, 17-21 août 2008
- ▶ ACS North East Regional Meeting (NERM), Burlington, VT, 29 juin-2 juil. 2008
- ▶ French-American Chemical Society Symposium (FACS XII), Santa Barbara, CA, 8-12 juin 2008
- ▶ 91st Canadian Chemistry Conference (CSC), Edmonton, AB, 24-28 mai 2008
- ▶ 235th ACS National Meeting, New Orleans, LA, 6-10 avr. 2008
- ▶ 18th Québec-Ontario Minisymposium (QOMSBOC), Montréal, QC, 9-11 nov. 2007
- ▶ 234th ACS National Meeting, Boston, MA, 19-23 août 2007
- ▶ OMCOS-14, Nara, Japon, 2-6 août 2007
- ▶ 90th Canadian Chemistry Conference (CSC), Winnipeg, MB, 26-30 mai 2007
- ▶ 17th Québec-Ontario Minisymposium (QOMSBOC), London, ON, 3-5 nov. 2006
- ▶ 232th ACS National Meeting, San Francisco, CA, 10-14 sept. 2006
- ▶ Gordon Research Conference on Stereochemistry, Newport, RI, 18-23 juin 2006
- ▶ 89th Canadian Chemistry Conference (CSC), Halifax, NS, 27-31 mai 2006
- ▶ 74^e Congrès de l'ACFAS, Montréal, QC, 15-19 mai 2006
- ▶ 3^e Symposium des étudiants gradués en chimie, Univ. Montréal, QC, 21 mars 2006
- ▶ Pacificchem, Honolulu, HI, 15-20 déc. 2005
- ▶ 16th Québec-Ontario Minisymposium (QOMSBOC), St-Adèle, QC, 11-13 nov. 2005
- ▶ 230th ACS National Meeting, Washington, DC, 28 août-1 sept. 2005
- ▶ 88th Canadian Chemistry Conference (CSC), Saskatoon, SK, 28 mai-1 juin 2005
- ▶ 4^e Symposium international de l'Université de Montréal (SISOUM), Montréal, QC, 28-29 avr. 2005
- ▶ 229th ACS National Meeting, San Diego, CA, 13-17 mars 2005
- ▶ Informex, Las Vegas, NV, 17-20 janv. 2005
- ▶ 15th Québec-Ontario Minisymposium (QOMSBOC), Ottawa, ON, 5-7 nov. 2004
- ▶ North East Regional Meeting (NERM), Rochester, NY, 1-2 nov. 2004
- ▶ 228th ACS National Meeting, Philadelphia, PA, 22-26 août 2004
- ▶ Bayer Workshop, New Haven, CT, 11-13 juin 2004
- ▶ French-American Chemical Society Symposium (FACS X), Charleston, SC, 6-10 juin 2004
- ▶ 87th Canadian Chemistry Conference (CSC), London, ON, 29 mai-1 juin 2004
- ▶ 72^e Congrès de l'ACFAS, Montréal, QC, 10-14 mai 2004
- ▶ 227th ACS National Meeting, Anaheim, CA, 28 mars-1 avr. 2004
- ▶ 14th Québec-Ontario Minisymposium (QOMSBOC), Montréal, QC, 5-7 déc. 2003
- ▶ 39th IUPAC Congress/86th CSC Conference, Ottawa, ON, 10-15 août 2003
- ▶ OMCOS-12, Toronto, ON, 6-10 juil. 2003
- ▶ 225th ACS National Meeting, New Orleans, LA, 22-27 mars 2003
- ▶ 15^e Entretiens Jacques Cartier, Lyon, France, 9-11 déc. 2002
- ▶ 85th Canadian Chemistry Conference (CSC), Vancouver, BC, 1-6 juin 2002
- ▶ 70^e Congrès de l'ACFAS, Québec, QC, 13-17 mai 2002
- ▶ 3^e Symposium international de l'Université de Montréal (SISOUM), Montréal, QC, 2-4 mai 2002
- ▶ 223rd ACS National Meeting, Orlando, FL, 7-11 avr. 2002
- ▶ 12th Québec-Ontario Minisymposium (QOMSBOC), Orford, QC, 9-11 nov. 2001
- ▶ 84th Canadian Chemistry Conference (CSC), Montréal, QC, 26-30 mai 2001
- ▶ 69^e Congrès de l'ACFAS, Sherbrooke, QC, 14-17 mai 2001

- ▶ Pacifichem, Honolulu, HI, 14-19 déc. 2000
- ▶ 11th Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, 10-12 nov. 2000
- ▶ 13^e Entretiens Jacques Cartier, Montréal, QC, 3-6 oct. 2000
- ▶ 220th ACS National Meeting, Washington, DC, 20-24 août 2000
- ▶ 83rd Canadian Chemistry Conference (CSC), Calgary, AB, 27-31 mai 2000
- ▶ 68^e Congrès de l'ACFAS, Montréal, QC, 15-19 mai 2000
- ▶ 219th ACS National Meeting, San Francisco, CA, 26-30 mars 2000
- ▶ 218th ACS National Meeting, New Orleans, LA, 22-25 août 1999
- ▶ 82nd Canadian Chemistry Conference (CSC), Toronto, ON, 30 mai-2 juin 1999
- ▶ 67^e Congrès de l'ACFAS, Ottawa, ON, 10-14 mai 1999
- ▶ 217th ACS National Meeting, Anaheim, CA, 21-25 mars 1999
- ▶ 80th Canadian Chemistry Conference (CSC), Windsor, ON, 1-4 juin 1997
- ▶ 65^e Congrès de l'ACFAS, Trois-Rivières, QC, 12-16 mai 1997
- ▶ 213th ACS National Meeting, San Francisco, CA, 13-17 avr. 1997
- ▶ 212th ACS National Meeting, Orlando, FL, 25-29 août 1996
- ▶ 64^e Congrès de l'ACFAS, Montréal, QC, 13-17 mai 1996
- ▶ 6th Québec-Ontario Minisymposium (QOMSBOC), Montréal, QC, 28-30 oct. 1995
- ▶ 210th ACS National Meeting, Chicago, IL, 20-24 août 1995
- ▶ 78th Canadian Chemistry Conference (CSC), Guelph, ON, 28 mai-1 juin 1995
- ▶ 63^e Congrès de l'ACFAS, Chicoutimi, QC, 22-26 mai 1995
- ▶ 5th Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, 15-16 oct. 1994
- ▶ 62^e Congrès de l'ACFAS, Montréal, QC, 16-20 mai 1994
- ▶ 4th Québec-Ontario Minisymposium (QOMSBOC), Ottawa, ON, 30-31 oct. 1993
- ▶ 4th International Symposium on Chiral Discrimination, Montréal, QC, 19-22 sept. 1993
- ▶ 8th European Symposium on Organic Chemistry, Barcelone, Espagne, 2 sept. 1993
- ▶ 61^e Congrès de l'ACFAS, Rimouski, QC, 7-21 mai 1993
- ▶ 60^e Congrès de l'ACFAS, Montréal, QC, 11-15 mai 1992
- ▶ 203rd ACS National Meeting, San Francisco, CA, 5-10 avr. 1992
- ▶ 2nd Québec-Ontario Minisymposium (QOMSBOC), Montréal, QC, 25 oct. 1991
- ▶ 6th IUPAC Symposium on Organometallic Chemistry, Utrecht, Pays-Bas, 26 août 1991
- ▶ 59^e Congrès de l'ACFAS, Sherbrooke, QC, 21-24 mai 1991
- ▶ 1st Québec-Ontario Minisymposium (QOMSBOC), Toronto, ON, 20 oct. 1990
- ▶ 58^e Congrès de l'ACFAS, Québec, QC, 14-18 mai 1990
- ▶ 197th ACS National Meeting, Dallas, TX, 9-14 avr. 1989
- ▶ 196th ACS National Meeting, Los Angeles, CA, 25-30 sept. 1988
- ▶ 194th ACS National Meeting, New Orleans, LA, 30 août-4 sept. 1987
- ▶ 5th Chemistry Graduate Students' Symposium, Buffalo, NY, 22 mai 1987