Hélène LEBEL

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Département de chimie
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Nationality Canadian

Birthdate March 26, 1971, Rimouski (Québec), Canada

Languages French and English

Education B.Sc. (Biochemistry), Université Laval, 1993.
Ph.D. (Organic Chemistry), Université de Montréal, 1998.
[with Prof. André B. Charette]
Postdoctoral studies (Organic Chemistry), Harvard, 1999.
[with Prof. Eric N. Jacobsen]

Employment / Research Experience

1993-1998: Graduate studies, Université de Montréal, Prof. André B. Charette
1998-1999: Postdoctoral studies, Harvard University, Prof. Eric N. Jacobsen
1999-2005: Assistant Professor, Département de chimie, Université de Montréal
2005-2010: Associate Professor, Département de chimie, Université de Montréal
2010-: Full Professor, Département de chimie, Université de Montréal

Memberships American Chemical Society, 1994–
Canadian Society of Chemistry, 2000–
Ordre des chimistes, 2012–

Honors and Awards

- Clara Benson Award, 2014.
- Canada Research Chair in Organometallic Catalysis, 2011 (Tier II).
- Merck Frosst Centre for Therapeutic Research Award, 2009.
- Johnson & Johnson Focused Funding Grant Award, 2008.
- Canada Research Chair in Organometallic Catalysis, 2006 (Tier II).
- Enantioselective Synthetic Chemistry Research Award, 2005.
- Ichikizaki Fund for Young Chemists Award, 2005.
- CNC/IUPAC Travel Award, 2005.
- Ichikizaki Fund for Young Chemists Award, 2004.
- Boehringer Ingelheim Young Investigator Award, 2001.

- Ichikizaki Fund for Young Chemists Award, 2001.
- Synthesis-Synlett-Journals Award, 2001.
- Research Corporation Award, 2001-2002.
- Ichikizaki Fund for Young Chemists Award, 2000.
- NSERC University Faculty Award, 1999-2004.
- NSERC Postdoctoral Fellow, 1998-2000.
- FCAR Postodoctoral Fellow (declined), 1998.
- NSERC 1967 Science and Engineering Fellow, 1993-1997.
- Doctoral Fellow of the Faculty of Graduate Studies, Université de Montréal, 1997.
- Doctoral Fellow of Chemistry Department, Université de Montréal, 96-97.
- Edouard Léger Fellow, Université de Montréal, 1995.
- NSERC Predoctoral Fellow (declined), 1993.
- FCAR Predoctoral Fellow (declined), 1993.
- Class Prize, American Chemical Society, 1994.
- Class Prize, Society of Chemical Industry, 1993.
- NSERC Undergraduate Fellow, 1992.
- E. Gordon Young Award, Institut de Chimie du Canada, 1991.
- Bourses Canada Undergraduate Fellow, 1990-1993.

Outreach

- Visiting professor at Université de Rouen (France) (May & June 2019).
- Visiting professor at Université Paul-Sabatier (France) (Sept. 2014).
- Visiting professor at Université de Pierre et Marie Curie (Paris VI, France) (Oct 2011).
- Visiting professor at Université de Rouen (France) (June 2009 & October 2009).
- Member of the NSERC Scholarships & Fellowships Selection Committee (2017-2020).
- Member of the doctoral fellowship FQRNT selection committee B2-03A (2012-2016).
- Member of the new researcher grant FQRNT selection committee (2005 and 2009).
- Member of the National Science Foundation (NSF-USA) SYN-METORG Grant Review Panel (2016).
- Referee NSERC, Agence National de Recherche (ANR-France) and National Science Foundation (NSF-USA) peer-review proposals on regular basis.
- Associate editor for the *Canadian Journal of Chemistry,* 2010-2012.
- Editorial Advisory Board member, *Organic Letter,* 2015-2018.
- Editorial Board Chair, *Chemistry Select*, 2015-
- Review manuscripts for the following journals: *Angew. Chem.*, *Chem. Eur. J., JOC*, *JACS, Org. Lett., OBC, Organometallics, Synlett*, *Synthesis*, *etc*. (~4 manuscripts per month.)
- Creation of the G3 network « Chimie en flux continu et catalyse (C3F) » with Université of Genève (J. Lacour & C. Mazet) & Université Libre de Bruxelles (G. Evano), 2015-16.
- Departmental representative at the general assembly of IFPU (International Forum for Public Universities), Barcelone, Nov. 2014.
- Co-organizer of ISCHA-3 « *International Symposium on C-H Activation* » at Université de Montréal, 2016.

- Co-organizer of the symposium « *Applications of C-H Functionalization* » at the Pacifichem 2015, Honolulu, Hawaii, 2015.
- Co-chair of the organic division for the 94th CSC Conference and Exhibition in Montréal, 2011.
- Co-organizer of the symposium « *C-H Functionalization, Memorial Symposium for Professor Keith Fagnou* » at the Pacifichem 2010, Honolulu, Hawaii, 2010.
- Organizer of the symposium « *Synthetic Organic Chemistry: the Next Generation »* at the 37th Northeast Regional Meeting (NERM 2010) de l'*ACS*, June 2-5, 2010, Potsdam, NY, USA.

Articles in Refereed Publications

65. Hélène Lebel,* Henri Piras and Johan Bartholoméüs. "Stereoselective Synthesis of (*R*)-2-(2-Bromophenyl)aziridine and (*S*)-2,3-Dihydrobenzofuran-3-amine." *Org. Synth.* **2019**, *Submitted (invited)*.
64. Calvine Lai, Gary Mathieu and Hélène Lebel.* "Batch and Continuous Flow Iron(II)-Catalyzed Synthesis of Sulfilimines and Sulfoximines using *N*-Mesyloxycarbamates." *Chem. Eur. J.* **2019**, *Accepted, doi.org/10.1002/chem.201900953*.
63. Alexanne Bouchard, Vanessa Kairouz, Maxime Manneveau, Heng-Ying Xiong, Tatiana Besset,* Xavier Pannecoucke and Hélène Lebel.* "Continuous Flow Palladium-Catalyzed Trifluoromethylthiolation of C-H Bonds" *J. Flow Chem.* **2019**, *9*, 9-12.
62. Emna Azek, Maroua Khalifa, Johan Bartholoméüs, Matthias Ernzerhof and Hélène Lebel*. "Rhodium(II)-catalyzed C-H aminations using *N*-mesyloxycarbamates: reaction pathway and by-product formation." *Chem. Science.* **2019**, *10,* 718-729.
61. Antoine Nitelet, Hélène Lebel,* André B. Charette,* Gwilherm Evano.* "Continuous Flow Chloration of Alkenyl Iodides Promoted by Copper Tubing" *Synthesis.* **2019**, *51*, 251-257.
60. Clément Audubert, Alexanne Bouchard, Gary Mathieu and Hélène Lebel.* "Chemoselective Synthesis of Amines from Ammonium Hydroxide and Hydroxylamine in Continuous Flow" *J. Org. Chem*. **2018**, *83*, 14203-14209.

    ▶ **Highlighted in *Synfacts* (2019, *15*, 107)**
59. Hélène Lebel,* Henri Piras and Johan Bartholoméüs. "(*R*)-2,2,2-trichloro-1-phenylethyl (methylsulfonyl)-oxycarbamate." *Org. Synth.* **2018**, *95*, 310-337.
58. Clément Audubert and Hélène Lebel.* "Mild Esterification of Carboxylic Acids via Continuous Flow Diazotization of Amines." *Org. Lett.* **2017**, *19*, 4407-4410.

    ▶ **Highlighted in *Org. Process Res. Dev.* (10.1021/acs.oprd.7b00303)**
57. Hélène Lebel,* Henri Piras and Johan Bartholoméüs. "Dirhodium (II) tetrakis[*N*-4-bromo-1,8-naphthoyl-(*S*)-*tert*-leucinate]." *Org. Synth.* **2017**, *94*, 136-152.
56. Hélène Lebel, Laura Mamani Laparra, Maroua Khalifa, Carl Trudel, Clément Audubert, Mathieu Szponarski, Cédric Dicaire Leduc, Emna Azek and Matthias Ernzerhof. "Synthesis of Oxazolidinones: Rhodium-Catalyzed C–H Amination of *N*-Mesyloxycarbamates." *Org. Biomol. Chem.* **2017**, *15*, 4144-4158.

    ▶ **Highlighted in *Synfacts* (2017, *13*, 805)**
55. Clément Audubert, Oscar Javier Gamboa Marin and Hélène Lebel.* "Batch and Continuous Flow One-pot Processes using Amine Diazotization to Produce Silylated Diazo Reagents." *Angew. Chem. Int. Ed.* **2017**, *56*, 6294-6297.
54. Hélène Lebel,* Henri Piras and Marie Borduy. "Iron-Catalyzed Amination of Sulfides and Sulfoxides with Azides in Photochemical Continuous Flow Synthesis." *ACS Catalysis.*

2016, *6*, 1109-1112.
▶ **Highlighted in *Org. Process Res. Dev.* (2016, *20*, 997-1007)**

53. Hélène Lebel* and Henri Piras. "Stereoselective Synthesis of Chiral Sulfilimines from *N*-Mesyloxycarbamates: Metal-Nitrenes versus Metal-Nitrenoids Species." *J. Org. Chem.* **2015**, *80*, 3572-3585.
52. Hélène Lebel*, Henri Piras, Johan Bartholoméüs. "Rhodium-Catalyzed Stereoselective Amination of Thioethers with *N*-Mesyloxycarbamates: DMAP and Bis$DMAPCH_2Cl_2$ as Key Additives." *Angew. Chem. Int. Ed.* **2014**, *52*, 7300-7304.
51. Yingdong Lu, Pierre Long Nguyen, Nicolas Lévaray, Hélène Lebel*. "Palladium-Catalyzed Saegusa–Ito Oxidation: Synthesis of α,β-Unsaturated Carbonyl Compounds from Trimethylsilyl Enol Ethers." *J. Org. Chem.* **2013**, *78*, 776-779.
50. Hélène Lebel*, Carl Trudel, Cédric Spitz. "Stereoselective Intermolecular C-H Amination Reactions." *Chem. Commun.* **2012**, *48*, 7799-7801.
49. Hélène Lebel*, Michaël Parmentier, Cédric Spitz, Olivier Leogane, Karen Ross. "Copper Bis(oxazoline) as Catalyst for Stereoselective Aziridination of Styrenes with *N*-Tosyloxycarbamates." *Tetrahedron* **2012**, *68*, 3396-3409.
48. Hélène Lebel*, Cédric Spitz, Olivier Leogane, Carl Trudel, Michaël Parmentier. "Stereoselective Rhodium-Catalyzed Amination of Alkenes." *Org. Lett.* **2011**, *13*, 5460-5463.

▶ **Highlighted in *Synfacts* (2011, *7*, 1335)**

47. Hélène Lebel*, Michaël Davi, Marie-Noelle Roy, Walid Zeghida, André B. Charette*. "Olefination Reactions using tetraarylphosphonium (TAP)-supported phosphorus ylides." *Synthesis* **2011**, 2275-2280.
46. Hélène Lebel*, Michaël Parmentier. "Copper-Catalyzed Enantioselective Aziridination of Styrenes." *Pure App. Chem.* **2010**, *82*, 1827-1833.
45. Olivier Leogane, Hélène Lebel*. "One-Pot Curtius Rearrangement Processes from Carboxylic Acids." *Synthesis* **2009**, 1935-1940.
44. Michaël Davi, Hélène Lebel*. "Copper-Catalyzed Tandem Oxidation-Olefination Process." *Org. Lett.* **2009**, *11*, 41-44.
43. Kim Huard, Hélène Lebel*. "Preparation of 4-Spirocyclohexyloxazolidinone by C-H Bond Nitrene Insertion." *Org. Synth.* **2009**, *86*, 59-69.
42. Olivier Leogane, Hélène Lebel*. "Mild and Efficient One-Pot Curtius Rearrangement: Preparation of *N*-*tert*-Butyl Adamantanyl-1-yl-carbamate and *N*-*tert*-Butyl 2-(Ethoxycarbonyl)-4-Phenylbutan-2-ylcarbamate." *Org. Synth.* **2009**, *86*, 113-120.
41. Michaël Davi, Hélène Lebel*. "One-Pot Approach for the Synthesis of *Trans*-Cyclopropyl Compounds from Aldehydes. Application to the Synthesis of GPR40 Receptor Agonists." *Chem. Comm.* **2008**, 4974-4976.
40. Hélène Lebel,* Michaël Davi. "Diazo Reagents in Copper(I)-Catalyzed Olefination of Aldehydes." *Adv. Catal. Synth.* **2008**, *350,* 2352-2358.
39. Hélène Lebel,* Michaël Davi and Grzegorz T. Stokłosa. "Transition Metal-Catalyzed Chemoselective Methylenation of Dicarbonyl Substrates." *J. Org. Chem.* **2008**, *73*, 6828-6830.
38. Hélène Lebel*, Chehla Ladjel, Francine Bélanger-Gariépy, Frank Schaper. "Redetermination of the O-O Bond Length in the Dioxygen-Adduct of Vaska's Complex." *J. Organomet. Chem.* **2008**, *693*, 2645-2648.
37. Hélène Lebel,* Chehla Ladjel. "Iridium Complexes in Olefination Reactions." *Organometallics* **2008**, *27*, 2676-2678.

36. Kim Huard, Hélène Lebel*. "Rhodium-Catalyzed Amination Reaction from *N*-Tosyloxy-carbamates." *Chem. Eur. J.* **2008**, *14*, 6222-6230.
35. Olivier Leogane, Hélène Lebel*. "Multicomponent Synthesis of Indoles from 2-Iodo Benzoic Acid." *Angew. Chem., Int. Ed.* **2008**, *47*, 350-352.
    - ▶ **Highlighted in *Synfacts* (2008, *4*, 244)**
34. Hélène Lebel*, Sylvain Lectard, Michaël Parmentier. "Copper-Catalyzed Alkene Aziridination with *N*-Tosyloxycarbamates." *Org. Lett.* **2007**, *9*, 4797-4800.
33. Hélène Lebel*, Chehla Ladjel, Lise Bréthous. "Palladium-Catalyzed Cross-Coupling Reactions in One-Pot Multicatalytic Processes." *J. Am. Chem. Soc.* **2007**, *129*, 13321-13326.
    - ▶ **feature as one of the "Most-accessed articles" in 2007.**
    - ▶ **Highlighted in *Synfacts* (2008, *4*, 87)**
32. Hélène Lebel*, Michaël Parmentier. "Copper-Catalyzed Methylenation Reaction: Total Synthesis of (+) Desoxygaliellalactone" *Org. Lett.* **2007**, *9*, 3563-3566.
    - ▶ **feature as one of the "Most-accessed articles" in 2007.**
31. Hélène Lebel*, Kim Huard. "*De Novo* Synthesis of Troc-Protected Amines: Intermolecular Rhodium-Catalyzed C-H Amination with *N*-Tosyloxycarbamates." *Org. Lett.* **2007**, *9*, 639-642.
30. Hélène Lebel,* Michaël Davi, Silvia Díez-González, Steven P. Nolan. "Copper-Carbene Complexes as Catalysts in the Synthesis of Functionalized Styrenes and Aliphatic Alkenes." *J. Org. Chem.* **2007**, *72*, 144-149.
29. Hélène Lebel*, Olivier Leogane. "Curtius Rearrangement of Aromatic Carboxylic Acids to Access Protected Anilines and Aromatic Ureas." *Org. Lett.* **2006**, *78*, 5717-5720.
    - ▶ **Highlighted in *Org. Process Res. Dev.* (2007,*11*, 2-12)**
28. Hélène Lebel*, Olivier Leogane, Kim Huard, Sylvain Lectard. "Catalytic Activation of Nitrogen Derivatives with Transition Metal Complexes." *Pure App. Chem.* **2006**, *78*, 363-375.
27. Hélène Lebel*, Kim Huard, Sylvain Lectard. "*N*-Tosyloxycarbamates as a Source of Metal Nitrenes: Rhodium-Catalyzed C-H Insertion and Aziridination Reactions." *J. Am. Chem. Soc.* **2005**, *107*, 14198-14199.
26. Hélène Lebel*, Chehla Ladjel. "Reductive One-Carbon Homologation of Aldehydes and Ketones." *J. Org. Chem.* **2005**, *70*, 10159 -10161.
25. Hélène Lebel*, Olivier Leogane. "Boc-Protected Amines via a Mild and Efficient One-Pot Curtius Rearrangement." *Org. Lett.* **2005**, *7*, 4107-4110.
    - ▶ **Highlighted in *Org. Process Res. Dev.* (2005, *9*, 703-718)**
    - ▶ **feature as the 3rd "Most-accessed articles" in 2005.**
24. Hélène Lebel*, Chehla Ladjel "Rhodium-Catalyzed Cascade Reactions: A Methylenation-Hydroboration Homologative Process." *J. Organomet. Chem.* **2005**, *690,* 5198-5205-*Inv. Contribution*.
23. Valérie Paquet, Hélène Lebel* "Rhodium-Catalyzed Synthesis of Terminal Alkenes." *Synthesis* **2005**, 1901-1905-*Invited Contribution*.
22. Hélène Lebel*, Danielle Guay, Valérie Paquet, Kim Huard "Highly Efficient Synthesis of Terminal Alkenes from Ketones." *Org. Lett.* **2004**, *6*, 3047-3050.
21. Hélène Lebel*, Valérie Paquet. "Multicatalytic Processes using Diverse Transition Metals for the Synthesis of Alkenes." *J. Am. Chem. Soc.* **2004**, *126*, 11152-11153.
20. Hélène Lebel*, Maria del Rayo Sanchez Salvatori, Francine Bélanger-Gariépy, "(*R*)-Bis[1,3-bis(1-phenylethyl)imidazolin-2-ylidene]-dichloropalladium(II)

dichloromethane solvate." *Acta Cryst.* **2004**, *E60,* m755-m757.

19. Hélène Lebel*, Marc Janes, André B. Charette, Steven P. Nolan. "Structure and Reactivity of "Unusual" *N*-Heterocyclic Carbene (NHC) Palladium Complexes Synthesized from Imidazolium Salts." *J. Am. Chem. Soc.* **2004**, *126*, 5046-5047.
18. Hélène Lebel*, Valérie Paquet. "Catalytic Activity of a New Ruthenium-(Trimethylsilyl)-diazomethane Complex." *Organometallics* **2004**, *23*, 1187-1190.
17. Hélène Lebel*, Valérie Paquet. "Rhodium-Catalyzed Methylenation of Aldehydes." *J. Am. Chem. Soc.* **2004**, *126*, 320-328.
16. Hélène Lebel*, Sébastien Morin, Valérie Paquet "Alkylation of Phosphine Boranes by Phase-Transfer Catalysis." *Org. Lett.* **2003**, *5*, 2347-2349.
15. Hélène Lebel*, Jean-François Marcoux, Carmela Molinaro, André B. Charette*. "Stereoselective Cyclopropanation Reactions." *Chem. Rev.* (Invited) **2003**, *103*, 977-1050.
14. Andre B. Charette*, Marc K. Janes, Hélène Lebel*. "Bis(oxazoline) Copper(I)-Catalyzed Enantioselective Cyclopropanation of Cinnamate Esters with Diazomethane." *Tetrahedron Asym.* **2003**, *14*, 867-872.
13. Gabriela A. Grasa, Zakhia Moore, Kenneth L. Martin, Edwin D. Stevens, Steven P. Nolan*, Valérie Paquet, Hélène Lebel*. "Structural Characterization and Catalytic Activity of the Rhodium-Carbene Complex $Rh(PPh_3)_2(IMes)Cl$ (IMes=bis(1,3-(2,4,6-trimethylphenyl)imidazol-2-ylidene)." *J. Organomet. Chem.* **2002**, *658*, 126-131.
12. Hélène Lebel*, Valérie Paquet. "Highly-Chemoselective Rhodium-Catalyzed Methylenation of Fluorine-Containing Ketones." *Org. Lett.* **2002**, *4*, 1671-1674.
11. Hélène Lebel*, Valérie Paquet, Caroline Proulx. "New Methylenation of Aldehydes: Transition Metal-Catalyzed Formation of Salt-Free Phosphorus Ylides." *Angew. Chem. Int. Ed.* **2001**, *40*, 2887-2890.
10. Hélène Lebel*, Michael Berthod, Francine Bélanger-Gariépy, "(+)-(*R,R*)-μ-m-Phenylenedimethylenebis[tert-butyl(phenyl)phosphinebis(borane)." *Acta Cryst.* **2001**, *E57*, o282-o284.

9 other publications as a student/postdoc.

Publications-Book Chapters

16. Contributor to *Encyclopedia of Reagents for Organic Synthesis*; Charette, Bode, Fuchs, Rovis (Eds.); John Wiley & Sons Ltd. **2018**, (2 reagents).
15. Contributor to *Encyclopedia of Reagents for Organic Synthesis*; Charette, Bode, Fuchs, Rovis (Eds.); John Wiley & Sons Ltd. **2017**, (5 reagents).
14. Contributor to *Encyclopedia of Reagents for Organic Synthesis*; Charette, Bode, Fuchs, Rovis (Eds.); John Wiley & Sons Ltd. **2016**, (4 reagents).
13. M. Davi, H. Lebel, The Concept of Multicatalysis in Aerobic Oxidation of Alcohols. In *Transition Metal Catalysis in Aerobic Alcohol Oxidation*; RSC Green Chemistry No. 28, Edited by Francesca Cardona and Camilla Parmeggiani, The Royal Society of Chemistry **2015**, Chapter 7, 173-202.
12. Contributor to *Encyclopedia of Reagents for Organic Synthesis*; Charette, Crich, Fuchs, Rovis (Eds.); John Wiley & Sons Ltd. **2014** (4 reagents).
11. A. B. Charette, H. Lebel, M.-N. Roy, Asymmetric Cyclopropanation and Aziridination Reactions. In *Copper Catalyzed Asymmetric Synthesis*; Alexakis, A.; Krause, N.; Woodward, S. (Eds.); Wiley-VCH: Weinheim, **2014**, Chapter 8, 203-238.
10. Contributor to *Encyclopedia of Reagents for Organic Synthesis*; Charette, Crich, Fuchs,

Rovis (Eds.); John Wiley & Sons Ltd. **2012**, (6 reagents).

9. H. Lebel, *Rhodium-Catalyzed Amination of C-H bonds*, in *Transition Metal-Catalyzed Carbon-Heteroatom Bond Formation*, Andrei K. Yudin Ed., John Wiley & Sons Ltd. **2011**, 137-155.
8. Contributor to *Encyclopedia of Reagents for Organic Synthesis*; Charette, Crich, Fuchs, Molander (Eds.); John Wiley & Sons Ltd. **2011** (5 reagents).
7. Contributor to *Encyclopedia of Reagents for Organic Synthesis*, Paquette, Crich, Fuchs, Molander, Eds., John Wiley & Sons Ltd. **2009**, (5 reagents).
6. H. Lebel, M. Grenon *Tritelluroortho and Halogenated Derivatives* in *Science of Synthesis,* Volume 22, *Three Carbon-Heteroatom Bonds: Thio-, Seleno-, and ellurocarboxylic Acids and Derivatives; Imidic Acids and Derivatives; Ortho Acid Derivatives*, Charette & Thomas, Eds.; Georg Thieme Verlag, Stuttgart-NewYork, **2005**, pp 789-793.
5. H. Lebel, M. Grenon *Triselenoortho Esters and Halogenated Derivatives* in *Science of Synthesis,* Volume 22, *Three Carbon-Heteroatom Bonds: Thio-, Seleno-, and Tellurocarboxylic Acids and Derivatives; Imidic Acids and Derivatives; Ortho Acid Derivatives*, Charette & Thomas, Eds.; Georg Thieme Verlag, Stuttgart-NewYork, **2005**, pp 775-788.
4. H. Lebel, M. Grenon *Trithioortho Esters and Halogenated Derivatives* in *Science of Synthesis,* Volume 22, *Three Carbon-Heteroatom Bonds: Thio-, Seleno-, and ellurocarboxylic Acids and Derivatives; Imidic Acids and Derivatives; Ortho Acid Derivatives*, Charette & Thomas, Eds.; Georg Thieme Verlag, Stuttgart-NewYork, **2005**, pp 749-774.
3. H. Lebel, M. Grenon *Ortho Esters and Halogenated Derivatives* in *Science of Synthesis,* Volume 22, *Three Carbon-Heteroatom Bonds: Thio-, Seleno-, and ellurocarboxylic Acids and Derivatives; Imidic Acids and Derivatives; Ortho Acid Derivatives*, Charette & Thomas, Eds.; Georg Thieme Verlag, Stuttgart-NewYork, **2005**, pp 669-747.
2. H. Lebel *Thioamides* in *Science of Synthesis,* Volume 22, *Three Carbon-Heteroatom Bonds: Thio-, Seleno-, and Tellurocarboxylic Acids and Derivatives; Imidic Acids and Derivatives; Ortho Acid Derivatives*, Charette & Thomas, Eds.; Georg Thieme Verlag, Stuttgart-NewYork, **2005**, pp 141-179.
1. A.B. Charette; H. Lebel *Cyclopropanation and C-H Insertion with Metals Other Than Cu and Rh*; Jacobsen, Pflatz & Yamamoto, Eds.; Springer-Verlag: Berlin, **1999**, Vol. II, pp 581-603.

Lectures and Conferences Presentations

Invited Lectures

118. Chimie ParisTech, Université Paris Sciences et Lettres (PSL), France, July 2, 2019.
117. Institut de recherche en chimie organique fine, INSA-Université de Rouen, France, June 28, 2019.
116. Département de Chimie, ENSICAEN, Université de Caen, Caen, France, June 26, 2019.
115. Plenary Lecture at Journées Nord-Ouest Européennes des Jeunes Chercheurs, Rouen, France, June 21, 2019.
114. Johnson & Johnson (Janssen-Cilag), Val-de-Reuil, France, June 17, 2019.
113. Université Pierre et Marie Curie, Paris VI, Paris, France, May 7, 2019.
112. Université d'Orléans, Orleans, France, May 6, 2019.
111. Gilead Sciences, inc., Foster City, CA, USA, April 25, 2019.
110. Flow Chemistry Congress 2018, Miami, USA, November 12-13, 2018.

109. Technion – Israel Institute of Technology, Haïfa, Israël, October 8th, 2018.
108. Tel Aviv University, Tel Aviv, Israël, October 7th, 2018.
107. 4th Organic Chemistry Congress, Antalya, Turkey, October 5th, 2018.
106. University of Zurich, Zurich, October 3rd, 2018.
105. Ecole Polytechnique Fédérale de Lausanne, Lausanne, September 21, 2018.
104. University of Geneva, Geneva, September 20, 2018.
103. The 2nd Symposium of Metal-Carbene Consortium, Beijing, June 7-9, 2018.
102. 101th Canadian Chemistry Conference and Exhibition (Paper OR1571), Edmonton, May 30, 2018.
101. 7th centre in green chemistry and catalysis Annual Meeting, April 4, 2018.
100. University of Antwerp, Antwerp, Belgium, February 1, 2017.
99. Bayer Pharma AG, Berlin, Germany, October 10, 2016.
98. Heidelberg University, Heidelberg, Germany, October 7, 2016.
97. RWTH Aachen University, Aachen, Germany, October 5, 2016.
96. Pacifichem 2015, (Paper ORGN-1793), Honolulu, USA, December 18, 2015.
95. Pacifichem 2015 (Paper INOR-66), Honolulu, USA, December 15, 2015.
94. Université de Rouen, Rouen, France, October 6, 2015.
93. Université de Genève, Geneva, Switzerland, October 1, 2015.
92. "Réseau C3F." Rencontre du G3, Geneva, Switzerland, October 1, 2015.
91. 2015 NJC Symposium, Montréal, Canada, June 2, 2015.
90. Université libre de Bruxelles, Bruxelles, Belgique, May 22, 2015.
89. G3 symposium, Université libre de Bruxelles, Bruxelles, Belgique, May 22, 2015.
88. Université Paris-Sud, Faculté de Pharmacie, Châtenay-Malabry, France, May 21, 2015.
87. Université Paris-Est Créteil, Val de Marne, France, May 19, 2015.
86. Université Paul Sabbatier, Toulouse, France, September 5, 2014.
85. Université Paul Sabbatier, Toulouse, France, September 3, 2014.
84. 55e Groupe d'étude en chimie organique (GECO) Samatan, France, August 28, 2014.
83. 97th Canadian Chemistry Conference and Exhibition (Paper OR0154), Vancouver, June 2, 2014.
82. 2nd Canada-China Green Chemistry and Catalysis Workshop, McGill University, Montréal, Canada, September 5, 2013.
81. University of Vermont, Burlington, Vermont, United States, April 2, 2013.
80. Simon Fraser University, Vancouver, BC, November 21, 2012.
79. University of Victoria, Victoria, BC, November 19, 2012.
78. UQAM, Montréal, Qc, November 14, 2012.
77. Université de Strasbourg, Strasbourg, France, September 21, 2012.
76. University of Basel, Basel, Switzerland, September 18, 2012.
75. 95th Canadian Chemistry Conference and Exhibition, (Paper OR1959), Calgary, May 30, 2012.
74. Université Pierre et Marie Curie, Paris VI, Paris, France, October 24, 2011.
73. Pacifichem 2010 (ORGN 262), Honolulu, Hawaii, December 16, 2010.
72. Université Laval, Québec, Qc, December 1st, 2010.
71. Atlantic Region Organic Symposium, Halifax, NS, August 20, 2010.
70. 9th International Symposium on Carbanion Chemistry, Florence, Italy, July 21, 2010.
69. French American Chemical Society Meeting, Obernai, France, June 9, 2010.
68. ACS North East Regional Meeting, Potsdam, NY, June 4, 2010.

67. Firmenich, Genève, Switzerland, March 15, 2010.
66. Winter Organic Synthesis Symposium, Université de Bern, Bern, Switzerland, February 4, 2010.
65. Université de Genève, Geneva, Switzerland, January 22, 2010.
64. Focused Funding Symposium, Johnson & Johnson, New Brunswick, NJ, November 9, 2009.
63. Institut de Recherche Servier, Paris, France, October 30, 2009.
62. Université de Rennes I, Rennes, France, October 27, 2009.
61. Université Pierre et Marie Curie, Paris VI, Paris, France, October 26, 2009.
60. Institut de recherche en chimie organique fine, INSA-Université de Rouen, France, Oct. 23, 2009.
59. Département de Chimie, ENSICAEN, Université de Caen, Caen, France, October 22, 2009.
58. 22nd International Congress on Heterocyclic Chemistry, St-John, NF, August 7, 2009.
57. Gordon Research Conference on Organometallic Chemistry, Newport, RI, July 13, 2007.
56. Johnson & Johnson (Janssen-Cilag), Val-de-Reuil, France, June 22, 2009.
55. Institut de recherche en chimie organique fine, INSA-Université de Rouen, France, June 19, 2009.
54. 92th Canadian Chemistry Conference and Exhibition, (IN857) Hamilton, Ontario, June 2, 2009.
53. Colloque 203 - Catalyse et applications, 77e Congrès de l'Acfas, Ottawa, Ontario, May 13, 2009.
52. University of California at Berkeley, Berkeley, California, March 31st, 2009.
51. 91th Canadian Chemistry Conference and Exhibition, (IN865), Edmonton, May 24-28, 2008.
50. Robert N. Young Lectures in Organic Chemistry, UBC, Vancouver, April 12, 2008.
49. AstraZeneca, Montréal, April 9, 2008.
48. University of Saskatchewan, Saskatoon, March 7, 2008.
47. University of Illinois at Chicago, Illinois, February 26, 2008.
46. Université de Grenoble, France, January 17, 2008.
45. Université de Zurich, Switzerland, January 14, 2008.
44. Université de Bern, Switzerland, January 11, 2008.
43. Université de Genève, Switzerland, January 10, 2008.
42. École Polytechnique fédérale de Lausanne, Switzerland, January 8, 2008.
41. Gordon Research Conference on Heterocyclic Compounds, Newport, RI, June 24-28, 2007.
40. Boehringer Ingelheim, Ridgefield, CT, USA, March 14, 2007.
39. University of Rochester, Rochester, NY, March 9, 2007.
38. University of California at Irvine, Irvine, CA, USA, November 8, 2006.
37. University of California at Riverside, Riverside, CA, USA, November 6, 2006.
36. Gordon Research Conference, Organic Reactions & Processes, Smithfield, RI, July 16-21, 2006.
35. Gordon Research Conference on Stereochemistry, Newport, RI, USA, June 18-22, 2006.
34. 89th Conference of The Canadian Society for Chemistry, (IN1043) Halifax, May 29, 2006.
33. Université Catholique de Louvain, Louvain-la-Neuve, Belgique, February 24, 2006.

32. University of Pennsylvania, Philadelphia, PA, October 17, 2005.
31. Gordon Research Conference on Natural Products, Tilton School, Tilton, NH, July 25, 2005.
30. 13th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS 13), Geneva, Switzerland, July 20, 2005
29. Arkansas University, Fayetteville, AR, January 24, 2005.
28. École supérieure de chimie physique électronique de Lyon, Villeurbanne Cédex, France, October 27, 2004.
27. Ludwig-Maximilians-Universitaet, Muenchen, Germany, October 25, 2004.
26. Aventis Pharma Deutschland GmbH, A company of the Sanofi-Aventis-Group, Frankfurt, Germany, October 22, 2004.
25. Institut de Chimie Moléculaire et des Matériaux d'Orsay, Université de Paris Sud, Orsay, France, October 19, 2004.
24. Université Pierre et Marie Curie, Paris VI, Paris, France, October 18, 2004.
23. École supérieure de physique et de chimie industrielles, Paris, France, October 15, 2004.
22. Institut de chimie des substances naturelles, Gif-sur-Yvette, France, October 14, 2004.
21. Bristol-Myers Squibb, Wallingford, CT, September 28, 2004.
19. Gordon Research Conference on Stereochemistry, Salve Regina University, Newport, RI, June 22, 2004.
18. Semaine d'Études de Chimie Organique 41ème édition, Ste-Maxime, France, May 25, 2004.
17. 14th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry, Montréal, Québec, December 6, 2003.
16. 2003 NSF Workshop on Organic Synthesis and Natural Products Chemistry. Asilomar, California, July 11, 2003.
15. Colloque, Molécules du futur : les défis de la synthèse organique. Les 15e Entretiens du Centre Jacques Cartier, Rhône-Alpes, Lyon, France, December 10, 2002.
14. 6th Organic Workshop for Leading, Young Canadian Chemists. Victoria, BC, May 30, 2002.
13. University of New Orleans, New Orleans, LA, April 5, 2002.
12. McGill University, Montréal, Québec, March 7, 2002.
11. Bristol-Myers Squibb, Candiac, Québec, January 18, 2002.
10. Boehringer Ingelheim (Canada) Ltd. Research & Development, Laval, Québec, September 10, 2001.
09. Université de Ottawa, Ottawa, Ontario, January 12, 2001.

8 others invited lectures as a postdoctoral fellow.

Oral Communications in refereed conference proceeding

50. Calvine Lai, Hélène Lebel. "Iron(II)-Catalyzed Synthesis of Sulfilimines and Sulfoximines with N-mesyloxycarbamate in Batch and in Continuous Flow" (OR1045) 102nd CSC Meeting, Québec, June 7, 2019.
49. Clément Audubert, Hélène Lebel. "Continuous flow diazotisation of amines." (Paper ORGN-581), 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 22, 2018.

48. Henri Piras, Hélène Lebel. "Continuous Flow Processes for the Synthesis of Sulfilimines and Sulfoximines." 26th Quebec-Ontario Mini-Symposium on Bioorganic and Organic Chemistry, Montréal, Québec, November 7, 2015.
47. Johan Bartholoméüs, Hélène Lebel. "C-H Propargylic Amination using Rhodium Dimers" (Paper ORGN-623), 250th ACS National Meeting, Boston, MA, August 19, 2015.
46. Henri Piras, Hélène Lebel. "Diastereoselective Rhodium-Catalyzed Amination of Thioethers" (OR1309) 96th CSC Meeting, Québec, May 29, 2013.
45. Laura Mamani Laparra, Hélène Lebel. "The Intramolecular C–H Amination of *N*-Sulfonyloxycarbamates : A Green Perspective" (OR0740) 96th CSC Meeting, Québec, May, 28, 2013.
44. Laura Mamani Laparra, Hélène Lebel. "La chimie verte appliquée aux réactions d'amination intramoléculaire : nouveaux réactifs et solvants biodégradables" Colloque 207 – Chimie verte et Catalyse, 80e Congrès de l'Acfas, Palais des congrès de Montréal, Québec, May 7, 2012.
43. Carl Trudel, Hélène Lebel. "*N*-Mesyloxycarbamates for a Green Diastereoselective Intermolecular C-H Bond Amination Reaction." 22nd Quebec-Ontario Mini-Symposium on Bioorganic and Organic Chemistry, Montréal, Québec, November 12, 2011.
42. Hélène Lebel, Nicolas Lévaray. "Total Synthesis of Hodgsonox" (Paper ORG18514), 242nd ACS National Meeting, Denver, CO, August 31, 2011.
41. André B. Charette, Hélène Lebel, Chao-Jun Li. "CGCC: A provincial Center in Green Chemistry and Catalysis in Canada." (Paper CHED19334), 242nd ACS National Meeting, Denver, CO, August 29, 2011.
40. Cédric Spitz, Hélène Lebel. "Rhodium-Catalyzed Stereoselective Intermolecular Aziridination" (Paper OR1976) 94th Canadian Chemistry Conference and Exhibition, Montréal, Québec, June 5 – June 9, 2011.
39. Hélène Lebel. "C-H Amination Reactions with *N*-Tosyloxycarbamates." (Paper ORGN 1734), 2010 International Chemical Congress of Pacific Basin Societies (Pacifichem 2010), Honolulu, Hawaii, 19 décembre 2010.
38. Carl Trudel, Hélène Lebel. "Amination diastéréosélective de liens C-H par des nitrènes de rhodium dérivés de *N*-tosyloxycarbamates." Colloque 208 – Chimie verte et Catalyse, 78e Congrès de l'Acfas, Université de Montréal, Québec, May 11-12, 2010.
37. Hélène Lebel. "Stereoslective Aziridination of Alkenes." (Paper ORG581), 239th ACS National Meeting, San Francisco, CA, 23 mars 2010.
36. Karen Ross, Hélène Lebel. "Nucleophilic Ring-Opening of Enantioenriched Protected Aziridines and Synthetic Application" (Paper OR1546) 92th Canadian Chemistry Conference and Exhibition, Hamilton, Ontario, June 3, 2009.
35. Carl Trudel, Hélène Lebel. "Efforts towards a Diastereoselective Intramolecular C-H Amination Reaction using *N*-Tosyloxycarbamates as Nitrene Precursors" (Paper OR1153) 92th Canadian Chemistry Conference and Exhibition, Hamilton, Ontario, June 1, 2009.

34. Nicolas Lévaray, Hélène Lebel. "Approche à la synthèse totale de l'Hodgsonox." Colloque 203 - Catalyse et applications, 77e Congrès de l'Acfas, Ottawa, Ontario, May 13, 2009.
33. Karen Ross, Michaël Parmentier, Hélène Lebel. "Ouvertures nucléophiles d'aziridines protégées énantioenrichies et application synthétique." Colloque 203 - Catalyse et applications, 77e Congrès de l'Acfas, Ottawa, Ontario, May 13, 2009.
32. Hélène Lebel, Michaël Parmentier. "Novel Enantioselective Amination Reactions" (OR5-1) 20th International Symposium on Chirality, Geneva, Switzerland, July 8, 2008.
31. Michaël Parmentier, Hélène Lebel. "*N*-Tosyloxycarbamates as Copper Nitrene Precursors: Enantioselective and Catalytic Aziridination Reactions" (Paper OR87) 91th Canadian Chemistry Conference and Exhibition, Edmonton, Alberta, May 25, 2008.
30. Kim Huard, Hélène Lebel. "*N*-Tosyloxycarbamates as a New Source of Metal Nitrenes" 18th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Montréal, Québec, November 10-11, 2007.
29. Chehla Ladjel, Hélène Lebel. "One-pot Methylenation-Hydroboration-Cross-Coupling Reactions" (Paper ORG62), 233th ACS National Meeting, Chicago, IL, March 25-29, 2007.
28. Chehla Ladjel, Hélène Lebel. "Palladium-Catalyzed Cross-Coupling Reactions in Multicatalytic Processes" 17th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : London, Ontario, November 3-5, 2006.
27. Chehla Ladjel, Hélène Lebel. "Multicatalytic Processes: One-Pot Methylenation-Hydroboration-Cross-Coupling Reactions" (Paper OR1334) 89th Conference of The Canadian Society for Chemistry, Halifax, Nova Scotia, May 27-31, 2006.
26. Michaël Parmentier, Hélène Lebel. "Application of the Rhodium-Catalyzed Methylenation Reaction: Total Synthesis of Desoxygaliellalactone" (Paper OR681) 89th Conference of The Canadian Society for Chemistry, Halifax, Nova Scotia, May 27-31, 2006.
25. Olivier Leogane, Hélène Lebel. "A New Original Process for the Synthesis of Protected Anilines via Curtius Rearrangement" (Paper OR505) 89th Conference of The Canadian Society for Chemistry, Halifax, Nova Scotia, May 27-31, 2006.
24. Kim Huard, Hélène Lebel. "Rhodium-Catalyzed C-H Insertion of Nitrene Intermediates" (Paper OR342) 89th Conference of The Canadian Society for Chemistry, Halifax, Nova Scotia, May 27-31, 2006.
23. Hélène Lebel, Olivier Leogane. "Novel Zinc-Catalyzed Curtius Rearrangement" (Paper ORGN0628), 2005 International Chemical Congress of Pacific Basin Societies (Pacifichem 2005), Honolulu, Hawaii, December 15-20, 2005.
22. Hélène Lebel, Chehla Ladjel, Lise Brethous. "Palladium-Catalyzed Cross-Coupling Reactions in Multicatalytic Processes" (Paper ORGN0182), 2005 International Chemical Congress of Pacific Basin Societies (Pacifichem 2005), Honolulu, Hawaii, December 15-20, 2005.

21. Sylvain Lectard, Hélène Lebel. "Novel Catalytic Aziridination Reactions." 16th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Ste-Adèle, Québec, November 11-13, 2005.
20. Olivier Leogane, Hélène Lebel. "New Mild Catalytic One-Pot Process for Curtius Rearrangement." (Paper ORG953), 229th ACS National Meeting, San Diego, CA, March 13-17, 2005.
19. Olivier Leogane, Hélène Lebel. "A New Mild Catalytic One-Pot Process for the Modified Curtius Reaction." 15th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Ottawa, Québec, November 5-7, 2004.
18. Marc K. Janes, Hélène Lebel, André Charette. "Copper·bis(oxazoline)-Catalyzed Enantioselective Cyclopropanations of Alkenes Using Diazomethane." (Paper ORG219), 228th ACS National Meeting, Philadelphia, PA, August 22-26, 2004.
17. Valérie Paquet, Hélène Lebel. "Vers la synthèse totale de l'Hodgsonox via une cascade oléfination-métathèse de fermeture de cycle." Semaine d'Études de Chimie Organique 41ème édition, Ste-Maxime, France, May 23-29, 2004.
16. Gregory Stoklosa, Hélène Lebel. "Study on the Chemoselectivity of the Rhodium-Catalyzed Methylenation" 87th Conference of The Canadian Society for Chemistry, London, Ontario, May 29-June 1, 2004.
15. Danielle Guay, Hélène Lebel. "Rhodium-Catalyzed Methylenation of Ketones" 87th Conference of The Canadian Society for Chemistry, London, Ontario, May 29-June 1, 2004.
14. Valérie Paquet, Hélène Lebel. "New Cascade Processes: Transition Metal-Catalyzed Methylenation/Ring Closing Metathesis Reactions." 39th IUPAC Congress and 86th Conference of The Canadian Society for Chemistry, Ottawa, Ontario, August 10-15, 2003.
13. Valérie Paquet, Hélène Lebel. "Rhodium-Catalyzed Methylenation Reaction." (Paper 227), 225th ACS National Meeting, New Orleans, LA, March 23-27, 2003.
12. Caroline Proulx, Hélène Lebel. "Copper-Catalyzed Curtius rearrangement: New Synthesis of Carbamate Derivatives." 13th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Kingston, Ontario, November 9-10, 2002.
11. Hélène Lebel. "Studies Toward the Mechanism of Transition Metal-Catalyzed Decomposition of Diazoalkanes." (Paper 509) 85th Canadian Society for Chemistry Conference and Exhibition, Vancouver, BC, June 1-5, 2002.
10. Hélène Lebel, Valérie Paquet. "Transition Metal-Catalyzed Methylenation of Methylketones." (Papier 34), 223rd ACS National Meeting, Orlando, FL, April 7-11, 2002.
09. Sébastien Morin, Hélène Lebel. "Novel Approach Toward the Synthesis of Phosphines." 12th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry: Sherbrooke, Québec, November 9-11, 2001.
08. Hélène Lebel, Valérie Paquet, Caroline Proulx. "New Methylenation of Aldehydes: Transition Metal-Catalyzed Formation of Salt-Free Phosphorus Ylides." The 12th European Symposium on Organic Chemistry, Groningen, The Netherlands, July 13-18, 2001.

07. Hélène Lebel, Valérie Paquet. "Transition Metal-Catalyzed Formation of Base- and Salt-Free Phosphorus Ylides : New Olefination of Carbonyl Compounds." 84th Canadian Society for Chemistry Conference and Exihibition, Montréal, Québec, May 26-30, 2001.

06. Sébastien Morin, Hélène Lebel. "Synthèse catalytique et énantiosélective de phosphines *P*-chirales par catalyse de transfert de phase." 69e Congrès de l'Acfas, Sherbrooke, Québec, May 14-17, 2001

05. Valérie Paquet, Hélène Lebel. "Développement d'une nouvelle méthode de méthylénation catalytique par la formation *in situ* d'un ylure de phosphores à l'aide de composés diazo." 69e Congrès de l'Acfas, Sherbrooke, Québec, May 14-17, 2001

4 other oral presentations as a student.

Posters in refereed conference proceeding

53. Gary Mathieu, Arturo Macchi, Hélène Lebel. "Iron(II)-Catalyzed Synthesis of Sulfilimines and Sulfoximines with N-mesyloxycarbamate in Batch and in Continuous Flow" Flow Chemistry Europe 2019, Hinxton, Cambridge, February 26, 2019.

52. Calvine Lai, Hélène Lebel. "Continuous Flow Synthesis of N-Alkylhydroxylamine from Benzyl Chlorides: Impact of a Turbulent Flow Mimic." (OR1224) 102nd CSC Meeting, Québec, June 5, 2019.

51. Calvine Lai, Hélène Lebel. ". Iron-catalyzed amination of thioethers and sulfoxides in continuous flow" (ORGN-460) 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 20, 2018.

50. Alexanne Bouchard, Clément Audubert, Hélène Lebel. "Synthesis of primary amine HX salts from halides and ammonium hydroxide in continuous flow chemistry" (ORGN-459) 255th ACS National Meeting & Exposition, New Orleans, LA, United States, March 20, 2018.

49. Clément Audubert, Oscar Gamboa, Hélène Lebel. "Synthesis of silylated diazo reagents via continuous flow synthesis" (ORGN-799) 253rd ACS National Meeting, San Francisco, CA, 4 avril 2017.

48. Maxime Manneveau, Heng-Ying Xiong, Xavier Pannecoucke, Hélène Lebel and Tatiana Besset. "Palladium(II)-Catalyzed Direct Trifluoromethylthiolation of Unactivated C(sp^3)-H Bonds" (Paper PO44), Third International Symposium on C-H Activation (ISCHA3), Montréal, Canada, May 31, 2016.

47. Maroua Khalifa, Hélène Lebel. "Rhodium-Catalyzed Intramolecular C-H Amination: Synthesis of Chiral Oxazolidinones from *N*-Mesyloxycarbamates" (Paper PO30), Third International Symposium on C-H Activation (ISCHA3), Montréal, Canada, May 30, 2016.

46. Emna Azek, Matthias Ernzerhof, Hélène Lebel. "Computational Mechanistic Study of Rhodium-Catalyzed C-H amination reactions using *N*-Mesyloxycarbamates" (Paper PO19), Third International Symposium on C-H Activation (ISCHA3), Montréal, Canada, May 30, 2016.

45. Johan Bartholoméüs, Hélène Lebel. "C-H Propargylic Amination using Rhodium Dimers" (Paper PO11), Third International Symposium on C-H Activation (ISCHA3), Montréal, Canada, May 30, 2016.

44. Henri Piras, Hélène Lebel. "Stereoselective Synthesis of Chiral Sulfilimines and Sulfoximines" (Paper ORGN-2145), 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem 2015), Honolulu, USA, December 18, 2015.

43. Henri Piras, Hélène Lebel. "Metal-Catalyzed Amination Processes in Continuous Flow Synthesis" (Paper ORGN-690), 2015 International Chemical Congress of Pacific Basin Societies (Pacifichem 2015), Honolulu, USA, December 16, 2015.

42. Henri Piras, Hélène Lebel. "Stereoselective amination of thioethers: Mechanistic studies" (ORGN-521) 250th ACS National Meeting, Boston, MA, 18 août 2015.

41. Johan Bartholoméüs, Henri Piras, Samuel Blais, Hélène Lebel. "Large scale and flow processes for the synthesis of *N*-mesyloxycarbamate: Application to the synthesis of trichloromethylcarbinols" (ORGN-148) 250th ACS National Meeting, Boston, MA, 16 août 2015.

40. Laura Mamani Laparra, Hélène Lebel. "Iron-catalyzed intramolecular C-H amination reactions with *N*-mesyloxycarbamates" (ORGN-674) 248th ACS National Meeting, San Francisco, CA, 11 août 2014.

39. Henri Piras, Hélène Lebel. "Diastereoselective Rhodium-Catalyzed Amination of Thioethers" 17th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-17), Fort Collins, CO, USA, July 29, 2013.

38. Johan Bartholoméüs, Hélène Lebel. "Synthesis of Propargylic Amines by Stereoselective Rhodium-Catalyzed Amination of C-H Bonds" (OR1618) 96th CSC Meeting, Québec, May 2013.

37. Cédric Spitz, Hélène Lebel. "Rhodium-Catalyzed Stereoselective Intermolecular Aziridination" 17th European Symposium on Organic Chemistry, Crete, Greece, July 10-15, 2011.

36. Nicolas Lévaray, Hélène Lebel. "Toward the Total Synthesis of Hodgsonox" (Paper OR1888) 94th Canadian Chemistry Conference and Exhibition, Montréal, Québec, June 5 – June 9, 2011.

35. Michaël Davi, Simon Dochain, Marie-Noelle Roy, André B. Charette, Hélène Lebel. "TAP-supported triphenylphosphine: Applications to Cu(I)-catalyzed olefination of aldehydes" (ORGN-956) 239th ACS National Meeting, San Francisco, CA, 24 mars 2010.

34. Hélène Lebel, Kim Huard, Carl Trudel. "C-H Amination with Metal Nitrenes Derived from N-Tosyloxycarbamates." 15th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-15), Glasgow, Scotland, July 26-30, 2009.

33. Hélène Lebel, Michaël Parmentier, Karen Ross. "Stereoselective Synthesis of Chiral Aziridines: Towards the Access of Chiral Benzylic Amines and Alcohols." 44th EUCHEM Conference on Stereochemistry, Brunnen, Switzerland, May 17-22, 2009.

32. Michaël Parmentier, Hélène Lebel. "Copper-Catalyzed Enantioselective Aziridination of Styrenes." (P-164), 20th International Symposium on Chirality, Geneva, Switzerland, July 6-9, 2008.
31. Michaël Parmentier, Hélène Lebel. "*N*-Tosyloxycarbamates as precursor for enantioselective and catalytic aziridination reactions." (Paper ORGN528), 234th ACS National Meeting, Boston, MA, August 19-23, 2007.
30. Kim Huard, Hélène Lebel. "*N*-Substituted Tosyloxyamine Derivatives as a New Source of Metal Nitrenes." (Paper ORGN527), 234th ACS National Meeting, Boston, MA, August 19-23, 2007.
29. Michaël Davi, Hélène Lebel. "Copper(I)-Catalyzed Olefination Reactions of Carbonyl Compounds." (Paper ORGN526), 234th ACS National Meeting, Boston, MA, August 19-23, 2007.
28. Lise Brethous, Hélène Lebel. "Intramolecular One-Pot Transition Metal-Catalyzed Methylenation-Heck Cross-Coupling Processes." (Paper ORGN525), 234th ACS National Meeting, Boston, MA, August 19-23, 2007.
27. Nicolas Lévaray, Hélène Lebel. "Toward the Total Synthesis of Hodgsonox" (Paper ORGN277), 234th ACS National Meeting, Boston, MA, August 19-23, 2007.
26. Hélène Lebel, Chehla Ladjel. "Iridium Complexes with Nitrogen Derivatives: New Catalysts for Olefination Reactions." 14th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-14), Nara, Japan August 2-6, 2007.
25. Lise Brethous, Hélène Lebel. "One-Pot Methylenation-Heck Coupling Reactions" (Paper ORG136), 233th ACS National Meeting, Chicago, IL, March 25-29, 2007.
24. Chehla Ladjel, Hélène Lebel. "Iridium-Catalyzed Olefination Reaction : Mechanistic Studies" (Paper ORG137), 233th ACS National Meeting, Chicago, IL, March 25-29, 2007.
23. Kim Huard, Hélène Lebel. "Rhodium-Catalyzed C-H Insertion of Nitrene Intermediates" (Paper ORGN1501), 2005 International Chemical Congress of Pacific Basin Societies (Pacifichem 2005), Honolulu, USA, December 15-20, 2005.
22. Kim Huard, Hélène Lebel. "Novel Approach to the Synthesis of Nitrenes" (Paper INOR1440), 2005 International Chemical Congress of Pacific Basin Societies (Pacifichem 2005), Honolulu, USA, December 15-20, 2005.
21. Kim Huard, Hélène Lebel. "Novel Approach to the Synthesis of Nitrenes: Application to C-H Insertion and Aziridination Reactions." 16th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Montreal, Canada, November 11-13, 2005.
20. Olivier Leogane, Hélène Lebel. "Original Approach to the Curtius Rearrangement of Aromatic Acids." 16th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry, Ste-Adèle, Canada, November 11-13, 2005.
19. Michaël Davi, Hélène Lebel, Steve P. Nolan. "Activity of NHC-Copper(I) Complexes in the Presence of Diazo Compounds – Catalytic Methylenation Reaction." 16th Annual

Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry, Ste-Adèle, Canada, November 11-13, 2005.

18. Chehla Ladjel, Hélène Lebel. "One-Pot Methylenation-Hydroboration-Suzuki Cross-Coupling Processes." 16th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry, Ste-Adèle, Canada, November 11-13, 2005.
17. Chehla Ladjel, Hélène Lebel. "Rhodium-Catalyzed Methylenation-Hydroboration Cascades." 4e Symposium international de synthèse organique de l'Université de Montréal, Montréal, Canada, April 28-29, 2005.
16. Sylvain Lectard, Hélène Lebel. "Catalytic Aziridination Reactions of Hydroxamic Acid Derivatives." 4e Symposium international de synthèse organique de l'Université de Montréal, Montréal, Canada, April 28-29, 2005.
15. Olivier Leogane, Hélène Lebel. "New Mild Catalytic One-Pot Process for Curtius Rearrangement." 4e Symposium international de synthèse organique de l'Université de Montréal, Montréal, Canada, April 28-29, 2005.
14. Chehla Ladjel, Hélène Lebel. "Rhodium-Catalyzed Methylenation-Hydroboration Cascades." (Paper ORG84), 229th ACS National Meeting, San Diego, CA, March 13-17, 2005.
13. Marc K. Janes, Hélène Lebel, André Charette, Steven P. Nolan. "Metallation of an Imidazolium Salt by Palladium in a 'Unusual' Fashion Leading to Novel N-Heterocyclic Carbene (NHC) Palladium Complexes." (INOR249), 228th ACS National Meeting, Philadelphia, PA, August 22-26, 2004.
12. Hélène Lebel. "Activation of Nitrogen Derivatives with Transition Metal Complexes: Towards New Cascade Processes" (Paper 5-C-05), 15th ICOS-IUPAC, Nagoya, Japan, August 1-6, 2004.
11. Alexandre Clavel, Hélène Lebel. "Toward the Synthesis of Hodgsonox" 87th Conference of The Canadian Society for Chemistry, London, Ontario, May 29-June 1, 2004.
10. Gregory T. Stoklosa, Hélène Lebel. "Study on the Chemoselectivity of the Rhodium-Catalyzed Methylenation." 14th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Montréal, Canada, December 5-7, 2003.
09. Danielle Guay, Hélène Lebel. "Synthesis of Allylic Alcohols and Disubstituted Alkenes *via* a Rhodium-Catalyzed Methylenation." 14th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Montréal, Canada, December 5-7, 2003.
08. Hélène Lebel. "Toward the Mechanism of the Rhodium-Catalyzed Methylenation Reaction." Gordon Research Conference, Organic Reactions & Processes, Roger Williams University, Bristol, RI, USA, July 20-25, 2003.
07. Danielle Guay, Hélène Lebel. "Synthesis of Allylic Alcohols and Ethers *via* a Rhodium-Catalyzed Methylenation." 12th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-12), Toronto, Canada July 6-July 10, 2003.

06. Valérie Paquet, Hélène Lebel. "Transition Metal-Catalyzed Olefination : Mechanistic Studies." 12th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS-12),Toronto, Canada July 6-July 10, 2003.

05. Valérie Paquet Hélène Lebel. "Rhodium-Catalyzed Olefination of Alpha-Substituted Methylketones." (Paper 1123) 85th Canadian Society for Chemistry Conference and Exhibition, Vancouver, Canada, June 1-5, 2002.

04. Valérie Paquet, Hélène Lebel. "Rhodium-Catatlyzed Olefination of Alpha-Functionalized Methylketones." 12th Annual Ontario/Quebec Minisymposium in Synthetic/Bioorganic Chemistry : Sherbrooke, Canada, November 9-11, 2001.

03. Hélène Lebel, Valérie Paquet. "Transition Metal-Catalyzed Olefination" (Paper 729), 2000 International Chemical Congress of Pacific Basin Societies (Pacifichem 2000), Honolulu, USA, December 14-19, 2000.

2 other posters as a graduate student.