

## ANDREW PAUL HENDRY

**Born:** March 24, 1968, Woodland, CA, USA  
**Citizenship:** *Dual:* Canada; United States of America  
**Address:** Redpath Museum and Department of Biology, McGill University  
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### Academic positions:

1. McGill University, Redpath Museum and Department of Biology.  
*Professor* (2015–present), *Associate Prof.* (2007–2015), *Assistant Prof.* (2002–2007).
2. Univ. of Massachusetts Amherst, Organismic & Evolutionary Biology: 1999–2002.  
*Darwin postdoctoral fellow.*
3. University of British Columbia, Department of Zoology: 1998–2000.  
*Natural Sciences and Engineering Research Council of Canada (NSERC) Postdoc.*

### Education:

1. Doctor of Philosophy, June 1998, School of Fisheries, University of Washington, WA
2. Master of Science, March 1995, School of Fisheries, University of Washington, WA
3. Bachelor of Science, June 1991, Department of Biology, University of Victoria, BC

### Awards and Honors:

1. Fellow of the Royal Society of Canada, 2021.
2. Distinguished Visiting Professor, Dept. of Biology, Univ. of Miami, 2020.
3. Leo Yaffe Award for Excellence in Teaching, Faculty of Science, McGill, 2017.
4. Miller Visiting Professor, University of California Berkeley, 2015-2016.
5. Principal's Prize for Excellence in Teaching, McGill University, 2015.
6. Tomlinson Science Award. Faculty of Science, McGill, 2011.
7. E.W.R. Steacie Memorial Fellowship, NSERC, 2009.
8. American Society of Naturalists, Young Investigator Prize, 2001.

### Research grants – current: (previous grants at end of this CV):

1. Canada Research Chair, Tier 1, 2018-2025. *Eco-evolutionary dynamics*. Total: \$350,000 CAD for research. (PI)
2. NSERC Discovery Grant, 2018-2023: *Eco-evolutionary dynamics*. Total: \$325,000CAD. (PI)
3. FQRNT Team Grant, 2021-2024. *Interactions between local adaptation and range expansion in the face of climate warming*. Total: \$190,500 CAD. (co-PI; L. Chapman PI)

**Professional societies – lifetime membership:** Canadian Society for Ecology and Evolution, Society for the Study of Evolution, American Society of Naturalists

### Administration and scientific committees:

1. *NSERC CREATE Biodiversity, Ecosystem Services & Sustainability*. Director: 2015-2021.
2. *Canadian Institute for Ecology and Evolution*. Board: 2011-2020. Chair, 2019-2020.
3. *UN Global Assessment of Biodiversity and Ecosystem Services*. IPBES. Author. 2019.

4. *Canadian Society for Ecology and Evolution*. Council member: 2008-2011.
5. *McGill Neotropical Environment Graduate Option*. Director: 2007-2009, 2011-2015.
6. *ERC Synergy Grants*, Panel Member: 2017-2018.
7. *DIVERSITAS core project "bioGENESIS"*. Scientific Committee: 2007-2014.

#### **Editorial boards:**

1. *Biological Invasions*. Associated Editor: 2015-present.
2. *Evolutionary Ecology Research*. Associate Editor: 2004-present.
3. *Evolutionary Applications*. Associate Editor: 2006-2020. Advisory Board: 2021-2020.
4. *The Year in Evolutionary Biology*. Editorial Board Member: 2012-2014.
5. *Evolution*. Associate Editor: 2012-2014.
6. *Evolutionary Ecology*. Associate Editor: 2009-2011.
7. *Journal of Evolutionary Biology*. Reviewing Editor: 2004-2008.

#### **Some keynote addresses:**

1. Southeastern Ecology and Evolution Conference, Auburn, AL (2019)
2. The Society for Evolutionary Studies, Sapporo, Japan (2019)
3. Stickleback Behavior & Evolution, Kyoto, Japan (2018)
4. NoWPaS, Oulanka Research Station, Finland (2018)
5. Darwin Day, University of Oslo, Norway (2017)
6. Ecological Integration Symposium, Texas A&M University, College Station, TX (2014)
7. Netherlands Annual Ecology Meeting, Lunteren, Netherlands (2012)
8. Eminent Scholars Series, Lakehead Univ., Thunder Bay, Ontario (2012)
9. Chemical and Biological Centre (KBC Days), Umeå, Sweden (2011)
10. Stickleback Behavior & Evolution, Fisheries Society of British Isles, Leicester, UK (2009)
11. J.C. Stevenson Memorial Lecture, Canadian Conference for Fisheries Research (2008)
12. Centre for Ecological & Evolutionary Synthesis, Norwegian Academy of Science (2006)

#### **Teaching at McGill:**

1. BIOL 111 (Introductory Biology) ~ 500 students. 10+ years.
2. BIOL 305 (Animal Diversity) ~ 25-75 students. 10+ years.
3. BIOL 594 (Evol Ecol) ~ 6-20 students. 8 years.
4. BIOL 304 (Evolution) ~ 160 students. 4 years.
5. BIOL 373 (Biostatistical Analysis) ~ 140 students. 3 years.
6. BIOL 202 (Basic Genetics) ~ 795 students. 2 years.
7. BIOL 115 (Essential Biology) – 308 students. 1 year.
8. BIOL 331 (Ecology and Behaviour Field Course) – 14-19 students. 2 years.
9. BIOL 334 (Applied Tropical Ecology) – 14-21 students. 2 years.

#### **Publications (books):**

1. Hendry, A.P. 2017. *Eco-Evolutionary Dynamics*. Princeton University Press, Princeton, NJ. 416 pp. (Paperback in 2019.)
2. Hendry, A.P., and S.C. Stearns (Editors). 2004. *Evolution Illuminated: Salmon and Their Relatives*. Oxford University Press, Oxford, UK. 510 pp.

#### **Publications (editor for journal special issues):**

1. Brady, S.P., A.L. Angert, D.I. Bolnick, A. Gonzalez, and A.P. Hendry. 2019. Maladaptation in applied evolution. *Evolutionary Applications* 12:1229-1502.
2. Hendry, A.P., and D.M. Green. 2017. Eco-evolutionary dynamics in cold blood. *Copeia* 105:441-568.
3. Gotanda, K.M., A.P. Hendry, and E.I. Svensson. 2017. Human influences on evolution, and the ecological and societal consequences. *Philosophical Transactions of the Royal Society B. Biological Sciences* vol. 372, issue 1712.
4. Hendry, A.P., and C.L. Peichel. 2016. Stickleback behavior and evolution: contributions from the eighth international conference. *Evolutionary Ecology Research* 17:141-617.
5. Merilä, J., and A.P. Hendry. 2014. Climate change, evolution, and phenotypic plasticity. *Evolutionary Applications* 7:1-191.
6. Hendry, A.P., and C.L. Peichel. 2013. Stickleback behavior and evolution: contributions from the seventh international conference. *Evolutionary Ecology Research* 15:111-502.
7. Meszéna, G., and A.P. Hendry. 2012. Niche theory and speciation. *Evolutionary Ecology Research* 14:361-665.
8. Elias, M., R. Faria, Z. Gompert, and A.P. Hendry. 2012. Ecological speciation. *International Journal of Ecology* 2012:1-237.  
<http://www.hindawi.com/journals/ijeco/2011/si.esp/>
9. Pelletier, F., D. Garant, and A.P. Hendry (Editors). 2009. Eco-evolutionary dynamics. *Philosophical Transactions of the Royal Society B. Biological Sciences* 364:1483-1640.
10. Hendry, A.P., and R. Waples (Editors). 2008. Evolutionary perspectives on salmonid conservation and management. *Evolutionary Applications* 1:183-423.
11. Hendry, A.P., S.P. Carroll, and D.N. Reznick (Editors). 2007. Evolution on ecological time scales. *Functional Ecology* 21:387-477.
12. Hendry, A.P., and M.T. Kinnison (Editors). 2001. Microevolution: Rate, Pattern, Process. *Genetica* 112/113:1-534. Also published as a book in the *Contemporary Issues in Genetics and Evolution* series.

**Publications (full journal papers here; notes/letters/reviews/chapters are further below):**

1. Urban, M.C., J.M.J. Travis, D. Zurell, P.L. Thompson, N.W. Synes, A. Scarpa, P.R. Peres-Neto, A.K. Malchow, P.M.A. James, D. Gravel, L. De Meester, C. Brown, G. Bocedi, C.H. Albert, A. Gonzalez, and A.P. Hendry. 2021. Coding for life: designing a platform for projecting and protecting global biodiversity. *Bioscience*. In press.
2. Haenel, Q., K.B. Oke, T.G. Laurentino, A.P. Hendry, and D. Berner. 2021. Clinal genomic

- analysis reveals strong reproductive isolation across a steep habitat transition in stickleback fish. *Nature Communications* 12:4850.
3. Cvetanovska, E., R.A. Castañeda, A.P. Hendry, D.B. Conn, and A. Ricciardi. 2021. Cold tolerance varies among invasive populations of the Asian clam *Corbicula fluminea*. *Canadian Journal of Zoology* 99:729-740.
  4. Sanderson, S., A.M. Derry, and A.P. Hendry. 2021. Phenotypic stability in scalar calcium of freshwater fish across a wide range of aqueous calcium availability in nature. *Ecology and Evolution* 11:6053-6056.
  5. Garcia-Elfring, A., A. Paccard, T.J. Thurman, B.A. Wasserman, E.P. Palkovacs, A.P. Hendry, and R.D.H. Barrett. 2021. Using seasonal genomic changes to understand historical adaptation to new environments: Parallel selection on stickleback in highly-variable estuaries. *Molecular Ecology* 30:2054-2064.
  6. de Lira, J.J.P.R., Y. Yan, S. Levasseur, C.D. Kelly, and A.P. Hendry. 2021. The complex ecology of genitalia: gonopodium length and allometry in the Trinidadian guppy. *Ecology and Evolution* 11:4564-4576.
  7. Blondel, L., I.G. Paterson, P. Bentzen, and A.P. Hendry. 2021. Resistance and resilience of genetic and phenotypic diversity to “black swan” flood events: A retrospective analysis with historical samples of guppies. *Molecular Ecology* 30:1017-1028.
  8. Astorg, L., S. Sanderson, V. Côté-Gravel, F. Sorbara, M.J.S. Windle, A.P. Hendry, and A.M. Derry. 2021. Different refuge types dampen exotic invasion and enhance diversity at the whole ecosystem scale in a heterogeneous river system. *Biological Invasions* 23:443-460.
  9. Labonne, J., A. Manicki, L. Chevalier, M. Tétillon, F. Guéraud, and A.P. Hendry. 2021. Using reciprocal transplants to assess local adaptation, genetic rescue, and sexual selection in newly established populations. *Genes* 12:5. DOI: 10.3390/genes12010005
  10. Sharpe, D.M.T., J.J.P.R. de Lira, G.E. Brown, M.E. Torchin, and A.P. Hendry. 2020. Testing the prey naiveté hypothesis: Can native prey (*Astyanax ruberrimus*) recognize an introduced top predator, *Cichla monoculus*? *Biological Invasions* 23:205-219.
  11. Stange, M., R.D.H. Barrett, and A.P. Hendry. 2020. The importance of genomic variation for biodiversity, ecosystems and people. *Nature Reviews Genetics* 22:89-105.
  12. Des Roches, S., K.I. Brans, M.R. Lambert, L.R. Rivkin, A.M. Savage, C.J. Schell, C. Correa, L. De Meester, S.E. Diamond, N.B. Grimm, N.C. Harris, L. Govaert, A.P. Hendry, M.T.J. Johnson, J. Munshi-South, E.P. Palkovacs, M. Szulkin, M.C. Urban, B.C. Verrelli, and M. Alberti. 2020. Socio-eco-evolutionary dynamics in cities. *Evolutionary Applications* 14:248-267.
  13. Haines, G.E., Y.E. Stuart, D. Hanson, T. Tasneem, D.I. Bolnick, H.C.E. Larsson, and A.P. Hendry. 2020. Adding the third dimension to studies of parallel evolution of morphology

- and function: an exploration based on parapatric lake-stream stickleback. *Ecology and Evolution* 10:13297-13311.
14. Wasserman, B.A., A. Paccard, T.M. Apgar, S. Des Roches, R.D.H. Barrett, A.P. Hendry, and E.P. Palkovacs. 2020. Ecosystem size shapes antipredator trait evolution in estuarine threespine stickleback. *Oikos* 129:1795-1806.
  15. Alberti, M., E.P. Palkovacs, S. Des Roches, L. De Meester, K.I. Brans, L. Govaert, N.B. Grimm, N.C. Harris, A.P. Hendry, C.J. Schell, M. Szulkin, J. Munshi-South, M.C. Urban, and B.C. Verrelli. 2020. The complexity of urban eco-evolutionary dynamics. *BioScience* 70:772-793.
  16. Oke, K.B., C.J. Cunningham, P.A.H. Westley, M.L. Baskett, S.M. Carlson, J. Clark, A.P. Hendry, V.A. Karatayev, N.W. Kendall, J. Kibele, H.K. Kindsvater, K.M. Kobayashi, B. Lewis, S. Munch, J.D. Reynolds, G.K. Vick, and E.P. Palkovacs. 2020. Recent declines in salmon body size impact ecosystems and people. *Nature Communications* 11:4155.
  17. Urban, M.C., S.Y. Strauss, F. Pelletier, E.P. Palkovacs, M.A. Leibold, A.P. Hendry, L. DeMeester, S.M. Carlson, A.L. Angert, and S.T. Giery. 2020. Evolutionary origins for ecological patterns in space. *Proceedings of the National Academy of Sciences USA* 117:17482-17490.
  18. Camacho, C., and A.P. Hendry. 2020. Matching habitat choice: it's not for everyone. *Oikos* 129:689-699.
  19. Pérez -Jvostov, F., W.J. Sutherland, R.D.H. Barrett, C.A. Brown, J.A. Cardille, S.J. Cooke, M.E. Cristescu, N.F. St.-Gelais, G.F. Fussmann, K. Griffiths, A.P. Hendry, N.W.R. Lapointe, E.A. Nyboer, R.L. Pentland, A.J. Reid, A. Ricciardi, J.M. Sunday, and I. Gregory-Eaves. 2020. Horizon scan of conservation issues for inland waters in Canada. *Canadian Journal of Fisheries and Aquatic Sciences* 77:869-881.
  20. Blondel, L., S. Klemet-N'Guessan, M.E. Scott, and A.P. Hendry. 2020. Asymmetric isolation and the evolution of behaviors influencing dispersal: rheotaxis of guppies above waterfalls. *Genes* 11:180.
  21. Gillespie, R.G., G.M. Bennett, L. De Meester, J.L. Feder, R.C. Fleischer, L.J. Harmon, A.P. Hendry, M.L. Knope, J. Mallet, C. Martin, C.E. Parent, A.H. Patton, K.S. Pfennig, D. Rubinoff, D. Schluter, O. Seehausen, K.L. Shaw, E. Stacy, M. Stervander, J.T. Stroud, C. Wagner, and G.O.U. Wogan. 2020. Comparing adaptive radiations across space, time, and taxa. *Journal of Heredity* 111:1-20.
  22. Paccard, A., D. Hanson, Y.E. Stuart, F.A. von Hippel, M. Kalbe, T. Klepaker, S. Skúlason, B.K. Kristjánsson, D.I. Bolnick, A.P. Hendry, and R.D.H. Barrett. 2020. Repeatability of adaptive radiation depends on spatial scale: regional versus global replicates of stickleback in lake versus stream habitats. *Journal of Heredity* 111:43-56.
  23. Carvajal-Endara, S., A.P. Hendry, N.C. Emery, C.P. Neu, D. Carmona, K.M. Gotanda, T.J. Davies, J.A. Chaves, and M.T.J. Johnson. 2020. The ecology and evolution of seed

- predation by Darwin's finches on *Tribulus cistoides* in the Galápagos Islands. *Ecological Monographs* 90:e01392.
24. Beausoleil, M.-O., L.O. Frishkoff, L.K. M'Gonigle, J.A.M. Raeymaekers, S.A. Knutie, L.F. De León, S.K. Huber, J.A. Chaves, D.H. Clayton, J.A.H. Koop, J. Podos, D. Sharpe, A.P. Hendry, and R.D.H. Barrett. 2019. Temporally varying disruptive selection in the medium ground finch (*Geospiza fortis*). *Proceedings of the Royal Society B. Biological Sciences* 286:20192290.
  25. Oke, K.B., C.J. Cunningham, T.P. Quinn, and A.P. Hendry. 2019. Independent lineages in a common environment: the roles of determinism and contingency in shaping the migration time of even- versus odd-year pink salmon over broad spatial and temporal scales. *Ecology Letters* 22:1547-1556.
  26. O'Dea, R.E., M. Lagisz, A.P. Hendry, and S. Nakagawa. 2019. Developmental temperature affects phenotypic means and variability: a meta-analysis of fish data. *Fish and Fisheries* 20:1005-1022.
  27. Leigh, D.M., A.P. Hendry, E. Vázquez-Domínguez, and V.L. Friesen. 2019. Estimated six percent loss of genetic variation in wild populations since the industrial revolution. *Evolutionary Applications* 12:1505-1512.
  28. Brady, S.P., D.I. Bolnick, R.D.H. Barrett, L. Chapman, E. Crispo, A.M. Derry, C.G. Eckert, D.J. Fraser, G.F. Fussmann, A. Gonzalez, F. Guichard, T. Lamy, J. Lane, A.G. McAdam, A.E.M. Newman, A. Paccard, B. Robertson, G. Rolshausen, P.M. Schulte, A.M. Simons, M. Vellend, and A.P. Hendry. 2019. Understanding maladaptation by uniting ecological and evolutionary perspectives. *American Naturalist* 194:495-515.
  29. Brady, S.P., D.I. Bolnick, A.L. Angert, A. Gonzalez, R.D.H. Barrett, E. Crispo, A.M. Derry, C.G. Eckert, D.J. Fraser, G.F. Fussmann, F. Guichard, T. Lamy, A.G. McAdam, A.E.M. Newman, A. Paccard, G. Rolshausen, A.M. Simons, and A.P. Hendry. 2019. Causes of maladaptation. *Evolutionary Applications* 12:1229-1242.
  30. Geladi, I., L.F. De León, M.E. Torchin, A.P. Hendry, R. González, and D.M.T. Sharpe. 2019. 100-year time-series reveal little morphological change following impoundment and predator invasion in two Neotropical characids. *Evolutionary Applications* 12:1385-1401.
  31. De León, L.F., D.M.T. Sharpe, K.M. Gotanda, J.A.M. Raeymaekers, J.A. Chaves, A.P. Hendry, and J. Podos. 2019. Urbanization erodes niche segregation in Darwin's finches. *Evolutionary Applications* 12:1329-1343.
  32. Dargent, F., L. Chen, G. Fussmann, C.K. Ghalambor, and A.P. Hendry. 2019. Female preference for novel males constrains the contemporary evolution of assortative mating in guppies. *Behavioral Ecology* 30:646-657.
  33. Blondel, L., L. Baillie, J. Quinton, J.B. Alemu, I. Paterson, A.P. Hendry, and P. Bentzen. 2019. Evidence for contemporary and historical gene flow between guppies in different watersheds – with a test for potential adaptive consequences. *Ecology and Evolution*

- 9:4504-4517.
34. Rifkin, L.R., J.S. Santangelo, M. Alberti, M.F.J. Aronson, C.W. de Keyzer, S.E. Diamond, M.-J. Fortin, L.J. Frazee, A.J. Gorton, A.P. Hendry, Y. Liu, J.B. Losos, J.S. MacIvor, R.A. Martin, M.J. McDonnell, L.S. Miles, J. Munshi-South, R.W. Ness, A.E.M. Newman, M.R. Stothart, P. Theodorou, K.A. Thompson, B.C. Verrelli, A. Whitehead, K.M. Winchell, and M.T.J. Johnson. 2019. A roadmap for urban evolutionary ecology. *Evolutionary Applications* 12:384-398.
  35. Dakos, V., B. Matthews, A.P. Hendry, J. Levine, N. Loeuille, J. Norberg, P. Nosil, M. Scheffer, and L. De Meester. 2019. Ecosystem tipping points in an evolving world. *Nature Ecology and Evolution* 3:355-362.
  36. Oke, K.B., E. Motivans, T.P. Quinn, and A.P. Hendry. 2019. Sexual dimorphism modifies habitat-associated divergence: evidence from beach and creek breeding sockeye salmon. *Journal of Evolutionary Biology* 32:227–242.
  37. Hendry, A.P. 2019. A critique for eco-evolutionary dynamics. *Functional Ecology* 33:84-94.
  38. Govaert, L., E.A. Fronhofer, S. Lion, C. Eizaguirre, D. Bonte, M. Egas, A.P. Hendry, A.D.B. Martins, C.J. Melián, J.A.M. Raeymaekers, I.I. Ratikainen, B.-E. Saether, J.A. Schweitzer, and B. Matthews. 2019. Eco-evolutionary feedbacks – theoretical models and perspectives. *Functional Ecology* 33:13-30.
  39. Gotanda, K.M., A. Pack, C. Leblond, and A.P. Hendry. 2019. Do replicates of independent guppy lineages evolve similarly in a predator-free laboratory environment? *Ecology and Evolution* 9:36-51.
  40. de Lira, J.J.P.R., F. Pérez-Jvostov, K.M. Gotanda, S. Kou-Giesbrecht, S.K. Pease, M. Jackson, S. Jersch, and A.P. Hendry. 2018. Testing for a whole-organism trade-off between natural and sexual selection: are the male guppies preferred by females more likely to get eaten by predators. *Evolutionary Ecology Research* 19:441-453.
  41. Fugère, V., and A.P. Hendry. 2018. Human influences on the strength of phenotypic selection. *Proceedings of the National Academy of Sciences USA* 115:10070-10075.
  42. Hendry, A.P., D.J. Schoen, M.E. Wolak, and J.M. Reid. 2018. The contemporary evolution of fitness. *Annual Review of Ecology, Evolution and Systematics* 49:457–476.
  43. Skovmand, L.H., C.C.Y. Xu, M.R. Servedio, P. Nosil, R.D.H. Barrett, and A.P. Hendry. 2018. Keystone genes. *Trends in Ecology and Evolution* 33:689-700.
  44. Rolshausen, G., T.J. Davies, and A.P. Hendry. 2018. Evolutionary rates standardized for evolutionary space: perspectives on trait evolution. *Trends in Ecology and Evolution* 33:379-389.
  45. Paccard, A., B.A. Wasserman, D. Hanson, L. Astorg, D. Durston, S. Kurland, T.M. Apgar,

- R.W. El-Sabaawi, E.P. Palkovacs, A.P. Hendry, and R.D.H. Barrett. 2018. Adaptation in temporally variable environments: stickleback armor in periodically breaching bar-built estuaries. *Journal of Evolutionary Biology* 31:735-752.
46. Côte, J., A. Boniface, S. Blanchet, A.P. Hendry, J. Gasparini, and L. Jacquin. 2018. Melanin-based coloration and host-parasite interactions under global change. *Proceedings of the Royal Society B. Biological Sciences* 285:20180285.
  47. Des Roches, S., D.M. Post, N.E. Turley, J.K. Bailey, A.P. Hendry, M.T. Kinnison, J.A. Schweitzer, and E.P. Palkovacs. 2018. The ecological importance of intraspecific variation. *Nature Ecology and Evolution* 2:57-64.
  48. Rudman, S.M., M.A. Barbour, K. Csilléry, P. Gienapp, F. Guillaume, N.G. Hairston Jr., A.P. Hendry, J.R. Lasky, M. Rafajlović, K. Räsänen, P.S. Schmidt, O. Seehausen, N.O. Therkildsen, M.M. Turcotte, and J.M. Levine. 2018. What genomic data can reveal about eco-evolutionary dynamics. *Nature Ecology and Evolution* 2:9-15.
  49. Lighten, J., A.S.T. Papadopulos, R.S. Mohammed, B.J. Ward, I. Paterson, L. Baillie, I.R. Bradbury, A.P. Hendry, P. Bentzen, and C. van Oosterhout. 2017. Evolutionary genetics of immunological supertypes reveals two faces of the Red Queen. *Nature Communications* 8:1294.
  50. Hanson, D., J. Hu, A.P. Hendry, and R.D.H. Barrett. 2017. Heritable gene expression differences between lake and stream stickleback include both parallel and antiparallel components. *Heredity* 119:339-348.
  51. Thompson, C.J., N.I. Ahmed, T. Veen, C.L. Peichel, A.P. Hendry, D.I. Bolnick, and Y.E. Stuart. 2017. Many-to-one form-to-function mapping weakens parallel evolution. *Evolution* 71:2738-2749.
  52. Hendry, A.P., and D.M. Green. 2017. Eco-evolutionary dynamics in cold blood. *Copeia* 105:441-450.
  53. Pérez-Jvostov, F., A.P. Hendry, G.F. Fussmann, and M.E. Scott. 2017. Experimental assessment in nature of the ecological effects of a specialist parasite. *Copeia* 105:494-503.
  54. Gordon, S.P., A.P. Hendry, and D. Reznick. 2017. Predator-induced contemporary evolution, phenotypic plasticity, and the evolution of reaction norms in guppies. *Copeia* 105:514-522.
  55. Alberti, M., C. Correa, J. Marzluff, A.P. Hendry, E.P. Palkovacs, K. Gotanda, V.M. Hunt, T.M. Apgar, and Y. Zhou. 2017. Global urban signatures of phenotypic change in animal and plant populations. *Proceedings of the National Academy of Sciences USA* 114:8951-8956.
  56. Stuart, Y.E., T. Veen, J.N. Weber, D. Hanson, M. Ravinet, B.K. Lohman, C.J. Thompson, T. Tasneem, A. Doggett, R. Izen, N. Ahmed, R.D.H. Barrett, A.P. Hendry, C.L. Peichel, and D.I. Bolnick. 2017. Contrasting effects of environment and genetics generate a



- predictable continuum of parallel evolution. *Nature Ecology and Evolution* 1:0158.
57. Oke, K.B., G. Rolshausen, C. LeBlond, and A.P. Hendry. 2017. How parallel is parallel evolution? A comparative analysis in fishes. *American Naturalist* 190:1-16.
  58. Carvajal-Endara, S., A.P. Hendry, N. Emery, and T.J. Davies. 2017. Habitat filtering not dispersal limitation shapes oceanic island floras: species assembly of the Galápagos archipelago. *Ecology Letters* 20:495-504.
  59. Mimura, M., T. Yahara, D.P. Faith, E. Vázquez-Domínguez, R. I. Colautti, H. Araki, F. Javadi, J. Núñez-Farfán, A.S. Mori, S. Zhou, P.M. Hollingsworth, L.E. Neaves, Y. Fukano, G.F. Smith, Y.-I. Sato, H. Tachida, and A.P. Hendry. 2017. Understanding and monitoring the consequences of human impacts on intraspecific variation. *Evolutionary Applications* 10:121-139.
  60. Jacquin, L., C. Dybwad, G. Rolshausen, A.P. Hendry, and S.M. Reader. 2017. Evolutionary and immediate effects of crude-oil pollution: depression of exploratory behaviour across populations of Trinidadian guppies. *Animal Cognition* 20:97-108.
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181. Carlson, S.M., A.P. Hendry, and B.H. Letcher. 2004. Natural selection acting on size, growth rate, and compensatory growth: an empirical test in a wild trout population. *Evolutionary Ecology Research* 6:955-973.
182. Hendry, A.P., and E. Beall. 2004. Energy use in spawning Atlantic salmon. *Ecology of Freshwater Fish* 13:185-196.
183. Gende, S.P., T.P. Quinn, R. Hilborn, A.P. Hendry, and B. Dickerson. 2004. Brown bears selectively kill salmon with higher energy content but only in habitats that facilitate choice. *Oikos* 104:518-528.
184. Hendry, A.P., B.H. Letcher, and G. Gries. 2003. Estimating natural selection acting on

- stream-dwelling Atlantic salmon: implications for the restoration of extirpated populations. *Conservation Biology* 17:795-805.
185. Hendry, A.P., and T. Day. 2003. Revisiting the positive correlation between female size and egg size. *Evolutionary Ecology Research* 5:421-429.
  186. Stockwell, C.A., A.P. Hendry, and M.T. Kinnison. 2003. Contemporary evolution meets conservation biology. *Trends in Ecology and Evolution* 18:94-101.
  187. Hendry, A.P., E.B. Taylor, and J.D. McPhail. 2002. Adaptive divergence and the balance between selection and gene flow: lake and stream stickleback in the Misty system. *Evolution* 56:1199-1216.
  188. Einum, S., A.P. Hendry, and I.A. Fleming. 2002. Egg size evolution in aquatic environments: does oxygen availability constrain egg size? *Proceedings of the Royal Society of London B. Biological Sciences* 269:2325-2330.
  189. Hendry, M.A., J.K. Wenburg, K. Myers, and A.P. Hendry. 2002. Genetic and phenotypic variation through the migratory season provides evidence for multiple populations of wild steelhead in the Dean River, British Columbia. *Transactions of the American Fisheries Society* 131:418-434.
  190. Hendry, A.P., T. Day, and E.B. Taylor. 2001. Population mixing and the adaptive divergence of quantitative traits in discrete populations: a theoretical framework for empirical tests. *Evolution* 55:459-466.
  191. Hendry, A.P., T. Day, and A.B. Cooper. 2001. Optimal size and number of propagules: allowance for discrete stages and effects of maternal size on total reproductive output and offspring fitness. *American Naturalist* 157:387-407.
  192. Kinnison, M.T., M.J. Unwin, A.P. Hendry, and T.P. Quinn. 2001. Migratory costs and the evolution of egg size and number in introduced and indigenous salmon populations. *Evolution* 55:1656-1667.
  193. Hendry, A.P., O.K. Berg, and T.P. Quinn. 2001. Breeding location choice in salmon: causes (habitat, competition, body size, energy stores) and consequences (life span, energy stores). *Oikos* 93:407-418.
  194. Quinn, T.P., A.P. Hendry, and G.B. Buck. 2001. Balancing natural and sexual selection in sockeye salmon: interactions between body size, reproductive opportunity and vulnerability to predation by bears. *Evolutionary Ecology Research* 3:917-937.
  195. Hendry, A.P., and M.T. Kinnison. 2001. An introduction to microevolution: rate, pattern, process. *Genetica* 112-113:1-8.
  196. Kinnison, M.T., and A.P. Hendry. 2001. The pace of modern life. II. From rates to pattern and process. *Genetica* 112-113:145-164.

197. Hendry, A.P. 2001. Adaptive divergence and the evolution of reproductive isolation in the wild: an empirical demonstration using introduced sockeye salmon. *Genetica* 112-113:515-534.
198. Berg, O.K., A.P. Hendry, B. Henriksen, C. Bech, J.V. Arnekleiv, and A. Lohrmann. 2001. Maternal provisioning of offspring and the use of those resources during development: variation within and among Atlantic salmon families. *Functional Ecology* 15:13-23.
199. Hendry, A.P., J.K. Wenburg, P. Bentzen, E.C. Volk, and T.P. Quinn. 2000. Rapid evolution of reproductive isolation in the wild: evidence from introduced salmon. *Science* 290:516-518.
200. Hendry, A.P., S.M. Vamosi, S.J. Latham, J.C. Heilbuth, and T. Day. 2000. Questioning species realities. *Conservation Genetics* 1:67-76.
201. Hendry, A.P., A.H. Dittman, and R.W. Hardy. 2000. Proximate composition, reproductive development, and a test for trade-offs in captive sockeye salmon. *Transactions of the American Fisheries Society* 129:1082-1095.
202. Hendry, A.P., and M.T. Kinnison. 1999. The pace of modern life: measuring rates of contemporary microevolution. *Evolution* 53:1637-1653.
203. Hendry, A.P., O.K. Berg, and T.P. Quinn. 1999. Condition dependence and adaptation-by-time: breeding date, life history, and energy allocation in a population of salmon. *Oikos* 85:499-514.
204. Hendry, A.P., and O.K. Berg. 1999. Secondary sexual characters, energy use, senescence, and the cost of reproduction in sockeye salmon. *Canadian Journal of Zoology* 77:1663-1675.
205. Quinn, T.P., A.P. Hendry, and E.C. Volk. 1999. Natural otolith microstructure patterns reveal precise homing to natal incubation sites by sockeye salmon (*Oncorhynchus nerka*). *Canadian Journal of Zoology* 77:766-775.
206. Griffith, J.N., A.P. Hendry, and T.P. Quinn. 1999. Straying of adult sockeye salmon, *Oncorhynchus nerka*, entering a non-natal hatchery. *Fishery Bulletin* 97:713-716.
207. Hendry, A.P., J.E. Hensleigh, and R.R. Reisenbichler. 1998. Incubation temperature, developmental biology and the divergence of sockeye salmon within Lake Washington. *Canadian Journal of Fisheries and Aquatic Sciences* 55:1387-1394.
208. Hensleigh, J.E., and A.P. Hendry. 1998. Rheotactic response of fry from beach-spawning populations of sockeye salmon: evolution after selection is relaxed. *Canadian Journal of Zoology* 76:2186-2193.
209. Hendry, A.P., and T.P. Quinn. 1997. Variation in adult life history and morphology among Lake Washington sockeye salmon (*Oncorhynchus nerka*) populations in relation to habitat features and ancestral affinities. *Canadian Journal of Fisheries and Aquatic Sciences*

54:75-84.

210. Hendry, A.P., T.P. Quinn, and F.M. Utter. 1996. Genetic evidence for the persistence and divergence of native and introduced sockeye salmon (*Oncorhynchus nerka*) within Lake Washington, WA. *Canadian Journal of Fisheries and Aquatic Sciences* 53:823-832.
211. Quinn, T.P., A.P. Hendry, and L.A. Wetzel. 1995. The influence of life history trade-offs and the size of incubation gravels on egg size variation in sockeye salmon (*Oncorhynchus nerka*). *Oikos* 74:425-438.
212. Hendry, A.P., F.E. Leonetti, and T.P. Quinn. 1995. Spatial and temporal isolating mechanisms: the formation of discrete breeding aggregations of sockeye salmon (*Oncorhynchus nerka*). *Canadian Journal of Zoology* 73:339-352.
213. Novales-Flamarique, I., A. Hendry, and C.W. Hawryshyn. 1992. The photic environment of a salmonid nursery lake. *Journal of Experimental Biology* 169:121-141.

**Publications (news & views, primer notes, letters, reviews, comments, reports, responses):**

1. Hendry, A.P, and M.T. Kinnison. Contemporary Evolution. 2020. In *Oxford Bibliographies in Evolutionary Biology*. Ed. Douglas Futuyma. New York: Oxford University Press.
2. Oke, K.B., and A.P. Hendry. 2019. Genetic insights into the past, present, and future of a keystone species. *Proceedings of the National Academy of Sciences USA* 116:344-346. [Commentary]
3. Hendry, A.P. 2018. A tale of two islands: established researcher. *Bulletin of the Ecological Society of America*. Article: e01457. [Paper Trail]
4. Faith, D.P., S. Magallón. A.P. Hendry, and M.J. Donoghue. 2017. Future benefits from contemporary evosystem services. *Trends in Ecology and Evolution* 32:717-719. [Comment]
5. Nusslé, S., A. P. Hendry, and S. M. Carlson. 2016. When does fisheries induced evolution matter? *Trends in Ecology and Evolution* 31:500-502. [Spotlight]
6. Dargent, F., M. E. Scott, A. P. Hendry, and G. F. Fussmann. 2014. Experimental evolution of parasite resistance in wild guppies: natural and multifarious selection. *Proceedings of the Royal Society B. Biological Sciences* 281:20141820. [Response]
7. Geeta, R., L.G. Lohmann, S. Magallón, D.P. Faith, A. Hendry, K. Crandall, L. De Meester, C.O. Webb, A.-H. Prieur-Richard, M. Mimura, E. Conti, J. Cracraft, F. Forest, C. Jaramillo, M. Donoghue, and T. Yahara. 2014. Biodiversity only makes sense in the light of evolution. *Journal of Bioscience* 39:1-5. [Clipboard]
8. Hendry, A.P. 2013. Eco-evolutionary dynamics: community consequences of (mal)adaptation. *Current Biology* 23:R869-R871. [Dispatch]

9. Meszéna, G., and A.P. Hendry. 2012. An introduction to niche theory and speciation. *Evolutionary Ecology Research* 14:361-363. [Introduction to special issue]
10. Elias, M., R. Faria, Z. Gompert, and A. Hendry. 2012 Factors influencing progress toward ecological speciation. *International Journal of Ecology* Article ID 235010. doi:10.1155/2012/235010. [Introduction to special issue]
11. Haller, B.C., L.F. De León, G. Rolshausen, K.M. Gotanda, and A.P. Hendry. 2012. Magic traits: distinguishing the important from the trivial. *Trends in Ecology and Evolution* 27:4-5. [Comment]
12. Hendry, A.P. 2010. A first date without getting to first base. *Ecology* 91:1559-1560. [Book review]
13. Palkovacs, E.P., and A.P. Hendry. 2010. Eco-evolutionary dynamics: intertwining ecological and evolutionary processes in contemporary time. *F1000 Biology Reports* 2:1 (doi:10.3410/B2-1)
14. Bailey, J.K., A.P. Hendry, M.T. Kinnison, D.M. Post, E.P. Palkovacs, F. Pelletier, L.J. Harmon, and J.A. Schweitzer. 2009. From genes to ecosystems: An emerging synthesis of eco-evolutionary dynamics. *New Phytologist* 184:746–749. [Meeting Report]
15. Hendry, A.P. 2009. Speciation. *Nature* 458:162-164. [Q&A]
16. Hendry, A.P. 2008. Darwin in the fossils. *Nature* 451:779-780. [News and Views]
17. Hendry, A.P. 2007. The Elvis paradox. *Nature* 446:147-150. [News and Views]
18. Skelly, D.K., L.N. Joseph, H.P. Possingham, L.K. Freidenburg, T.J. Farrugia, M.T. Kinnison, and A.P. Hendry. 2007. Evolutionary responses to climate change. *Conservation Biology* 21:1353-1355. [Comment]
19. Hendry, A.P. 2005. The power of natural selection. *Nature* 433:694-695. [News and Views]
20. Patterson, I.G., E. Crispo, M.T. Kinnison, A.P. Hendry, and P. Bentzen. 2005. Characterization of tetranucleotide microsatellite markers in the guppy (*Poecilia reticulata*). *Molecular Ecology Notes* 5:269-271. [Primer note]
21. Hendry, A.P. 2002.  $Q_{ST} > = \neq < F_{ST}$ ? *Trends in Ecology and Evolution* 17:502. [Comment]
22. Hendry, A.P., J.K. Wenburg, P. Bentzen, E. Volk, and T.P. Quinn. 2001. Examining evidence of reproductive isolation in sockeye salmon. *Science* 291:1853a. [Response]
23. Hendry, A.P., J.K. Wenburg, P. Bentzen, E. Volk, and T.P. Quinn. 2001. Evolution of sockeye salmon ecotypes. *Science* 291:251-252. [Response]
24. Hendry, A.P. 2001. Something fishy. *American Scientist* 89:293. [Letter]
25. Hendry, A.P., and M.T. Kinnison. 1998. Taking time with microevolution. *Trends in Ecology and Evolution* 13:76-77. [Comment]

**Publications (book chapters):**

1. Stockwell, C.A., M.T. Kinnison, A.P. Hendry, and J.A. Hamilton. 2016. Evolutionary restoration ecology. Pages 427-454 in M.A. Palmer, J.B. Zedler, and D.A. Falk (editors). *Foundations of restoration ecology*, 2nd Edition. Island Press, Washington, DC.
2. Barrett, R.D.H., and A.P. Hendry. 2012. Evolutionary rescue under environmental change? Pages 216-233 in U. Candolin and B.B.M. Wong (editors). *Behavioural responses to a changing world: mechanisms and consequences*. Oxford Univ. Press, Oxford, UK.
3. Hendry, A.P., V. Millien, A. Gonzalez, and H.C.E. Larsson. 2012. How humans influence evolution on adaptive landscapes. Pages 180-202 in E. Svensson and R. Calsbeek (editors). *The adaptive landscape in evolutionary biology*. Oxford Univ. Press, Oxford, UK.
4. Morbey, Y.E., and A.P. Hendry. 2008. Adaptation of salmonids to spawning habitat. Pages 15-36 in D.A. Sear and P. DeVries (editors). *Salmon spawning habitat in rivers: physical controls, biological responses, and approaches to remediation*. American Fisheries Society, Symposium 65, Bethesda.
5. Vergeer, P., N.J. Ouborg, and A.P. Hendry. 2008. Genetic considerations in introduction efforts. Pages 116-129 in S. Carroll and C. Fox (editors). *Conservation biology – evolution in action*. Oxford Univ. Press, Oxford, UK.
6. Podos, J., and A.P. Hendry. 2006. The biomechanics of ecological speciation. Pages 301-321 in A. Herrel, T. Speck, and N. Rowe (editors). *Ecology and biomechanics: a mechanical approach to the ecology of animals and plants*. Taylor and Francis, New York.
7. Stockwell, C.A., M.T. Kinnison, and A.P. Hendry. 2006. Evolutionary restoration ecology. Pages 113-137 in D. Falk, M. Palmer, and J. Zedler (editors). *Foundations of restoration ecology*. Island Press.
8. Huey, R.B., G.W. Gilchrist, and A.P. Hendry. 2005. Using invasive species to study evolution. Pages 139–164 in D.F. Sax, S.D. Gaines, and J.J. Stachowicz (editors). *Species invasions: insights to ecology, evolution and biogeography*. Sinauer Associates, Sunderland, MA.
9. Einum, S., M.T. Kinnison, and A.P. Hendry. 2004. Evolution of egg size and number. Pages 126–153 in A.P. Hendry and S.C. Stearns (editors). *Evolution illuminated: salmon and their relatives*. Oxford Univ. Press, Oxford, UK.
10. Kinnison, M.T., and A.P. Hendry. 2004. Tempo and mode in salmon evolution. Pages 208–231 in A.P. Hendry and S.C. Stearns (editors). *Evolution illuminated: salmon and their relatives*. Oxford Univ. Press, Oxford, UK.
11. Stearns, S.C., and A.P. Hendry. 2004. The salmonid contribution to key issues in evolution. Pages 3–19 in A.P. Hendry and S.C. Stearns (editors). *Evolution illuminated: salmon and their relatives*. Oxford Univ. Press, Oxford, UK.

12. Hendry, A.P., T. Bohlin, B. Jonsson, and O.K. Berg. 2004. To sea or not to sea: anadromy versus non-anadromy in salmonids. Pages 92–125 in A.P. Hendry and S.C. Stearns (editors). *Evolution illuminated: salmon and their relatives*. Oxford Univ. Press, Oxford, UK.
13. Hendry, A.P., V. Castric, M.T. Kinnison, and T.P. Quinn. 2004. The evolution of philopatry and dispersal: homing versus straying in salmonids. Pages 52–91 in A.P. Hendry and S.C. Stearns (editors). *Evolution illuminated: salmon and their relatives*. Oxford Univ. Press, Oxford, UK.

### **Symposia/workshops organized:**

1. Living in the eco-evolutionary theater.  
CSEE, Victoria, BC, 2017.  
- 11 oral presentations
2. *Eco-evolutionary dynamics in cold blood*.  
JMIH, New Orleans, LA, 2016.  
- 9 oral presentations (organized with D. Green)
3. *(Mal)adaptation to stressful environments*.  
CIEE/QCBS, Mt. St. Hilaire, 2015.  
- 22 participants (organized with S. Brady, A. Derry, G. Fussmann, and R. Barrett)
4. *Ecological interactions and range evolution under climate change*.  
DIVERSITAS, Mt. St. Hilaire, 2012.  
- 20 participants (organized with A. Gonzalez, P. Leadley, and C. Krug)
5. *Eco-evolutionary dynamics*.  
Evolution 2014, Ottawa, 2012.  
- 6 oral presentations (organized with D. Schluter)
6. *Evolutionary diversification and the functioning of communities and ecosystems*.  
Quebec Centre for Biodiversity Science, Mt. St. Hilaire, Quebec, 3 meetings, 2011-2012.  
- 18 participants (organized with E. Palkovacs)
7. *Evolution: the past, present, and future of biodiversity*.  
Open Science Conference II, DIVERSITAS, Cape Town, South Africa, Oct. 15, 2009  
- 6 oral presentations (organized with M. Donoghue and S. Magallon)
8. *Eco-evolutionary dynamics*.  
Ecological Society of America, August 2009  
- 8 oral presentations (organized with E. Palkovacs)
9. *Linking Ecological and Evolutionary Dynamics*.  
Centre for Population Biology, Imperial College, Sept. 17-19, 2008  
- 14 oral presentations (organized with F. Pelletier and D. Garant)
10. *Evolution on Ecological Time Scales*.  
Ecological Society of America and International Congress of Ecology, August 7-12, 2005.  
- 9 oral presentations (organized with G. Fussmann and D. Réale)
11. *Growth Rate Variation in Salmonids: Consequences for Life History and Implications for Management* ([www-heb.pac.dfo-mpo.gc.ca/congress/2000/variation/variation.htm](http://www-heb.pac.dfo-mpo.gc.ca/congress/2000/variation/variation.htm)).  
International Congress on the Biology of Fishes, July 23-27, 2000.  
- 30 oral presentations. (organized with B. Letcher and I. Fleming)
12. *Reproductive Success in Salmonids* ([ww2.mcgill.ca/biology/faculty/hendry/RSsymp.html](http://ww2.mcgill.ca/biology/faculty/hendry/RSsymp.html)).  
American Society of Ichthyologists and Herpetologists, June 28, 1999.



- 24 oral presentations. (organized with D. Hoysak)

**Departmental/Institutional seminars:**

1. Dept. of Biological Sciences, Univ. Miami (2020) – two talks
2. TULIP speaker, Univ. Toulouse, Toulouse, FR (2019)
3. CNRS SETE, Moulis, FR (2019)
4. Dept. of Biological Sciences, Louisiana State Univ., Baton Rouge, LA (2019)
5. Dept. of Plant Sciences, Univ. of Montana, Bozeman, MT (2019)
6. Dept. of Psychology, Neuroscience, and Behaviour, McMaster Univ., Hamilton, ON (2019)
7. Huck Institutes, Penn. State Univ., University Park, PA (2018)
8. Cary Institute of Ecosystem Studies, Millbrook, NY (2018)
9. Dept. of Biology, Univ. of Kentucky, Lexington, KY (2018)
10. Dept. of Biological Sciences, Univ. of Rhode Island, Kingston, RI (2018)
11. Dept. of Biological Sciences, Univ. of Arkansas, Fayetteville, AR (2018)
12. Dept. of Biology, NTNU, Trondheim, Norway (2018)
13. Dept. of Biological Sciences, Dalhousie Univ., MS (2018)
14. Dept. of Biological Sciences, Oregon State Univ., Corvallis, OR (2018)
15. Dept. of Biology, East Carolina Univ., Greenville, NC (2017)
16. Integrative Biology, Univ. of Guelph, Guelph, ON (2017)
17. Dept. of Biology, Carleton Univ., Ottawa, ON (2017)
18. Dept. of Biology, Case Western Reserve Univ., Cleveland, OH (2017)
19. Dept. of Zoology and Physiology, Univ. of Wyoming, Laramie, WY (2016)
20. Dept. of Biology, KU Leuven, Belgium (2016)
21. Leibniz Institute for Freshwater Biology and Inland Fisheries, Berlin, Germany (2016)
22. Ecology and Evolution Lunch, Stanford Univ., Stanford, CA (2016)
23. Ecology and Evolution Seminar, UC Davis, Davis, CA (2015)
24. Miller Institute, UC Berkeley, CA (2015)
25. Museum of Vertebrate Zoology, UC Berkeley, CA (2015)
26. Alberta Biodiversity Monitoring Institute, Edmonton, Alberta (2015)
27. Dept. of Biological Sciences, Univ. of Alberta, Edmonton, Alberta (2015)
28. Wildlife, Fisheries, and Conservation Biology, UC Berkeley, CA (2015)
29. Centre for Integrative Biodiversity (iDIV), Leipzig, Germany (2014)
30. Dept. of Ecology and Evolutionary Biology, UC Santa Cruz, Santa Cruz, CA (2014)
31. Dept. of Biological Sciences, NC State University, Raleigh, NC (2014) – two lectures.
32. Dept. of Biology, Concordia Univ., Montreal, Quebec (2013).
33. Division of Biology, Univ. Tennessee, Knoxville, Tennessee (2013)
34. Dept. of Biological Sciences, Purdue Univ. (2013) – two lectures.
35. Dept. of Biology, Norwegian Univ. of Science and Technology, Trondheim, Norway (2012).
36. Dept. of Biology, Lakehead Univ., Thunder Bay, Ontario (2012)
37. Dept. of Biology, Univ. of Western Ontario, London, Ontario (2012)
38. Dept. of Ecology and Evolutionary Biology, Univ. Connecticut, Storrs, CT (2011)
39. Dept. of Ecology and Environmental Science, Umeå, Sweden (2011).
40. Dept. of Animal Ecology, Uppsala Univ., Sweden (2011)
41. Dept. of Biology, Queen's University, Kingston, Ontario (2011)
42. Dept. of Biology, University of New Brunswick, Fredericton (2011)
43. Institute for Systematic Biology, University of Zurich, Zurich, Switzerland (2011)
44. Climate and Energy Institute, Yale University, New Haven, CT (2010)

45. Hopkin's Marine Laboratory, Stanford Univ., Monterey, CA (2010)
46. Dept. of Biology, Univ. of Victoria, Victoria, BC (2010)
47. Dept. of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO (2009)
48. Dept. of Ecology, Lund Univ., Sweden (2009)
49. EAWAG, Kastanienbaum, Switzerland (2009)
50. EAWAG, Duebendorf, Switzerland (2009)
51. Cosmocaixa, Madrid, Spain (2009)
52. Dept. of Biology, Univ. of California, Riverside, CA (2009)
53. Dept. of Biological Sciences, Simon Fraser Univ., Vancouver (2009)
54. Dept. of Ecology and Evolutionary Biology, Tulane Univ., New Orleans, LA (2009)
55. Dept. of Envir. Science, Policy and Management, Univ. of California, Berkeley, CA (2009)
56. Dept. of Ecology and Evolution, Univ. of California, Santa Cruz, CA (2009)
57. Dept. of Biology, Univ. of California, Berkeley, CA (2008)
58. FAPESP, São Paulo, Brazil (2008)
59. Center for Ecology and Evolutionary Biology, Univ. of Oregon, Eugene, Or (2008)
60. Dept. of Ecology and Evolution, Univ. of California, Davis, CA (2008)
61. Dept. of Biological Sciences, Univ. of Winnipeg, MB (2008)
62. Dept. of Biology, Univ. de Québec á Montréal, QC (2007)
63. Ecology and Evolution Graduate Program. SUNY Stony Brook, NY (2007)
64. Great Lakes Institute for Environmental Research, Univ. of Windsor, ON (2007)
65. Dépt. de Biologie, Univ. Laval, Quebec City, QB (2007)
66. Dept. of Ecology and Evolutionary Biology, Yale Univ., New Haven, CT (2007)
67. Dept. of Biology, Univ. of Oslo, Oslo, Norway (2006) – *two talks*
68. Evolutionary Biology Centre, Uppsala Univ., Uppsala, Sweden (2006)
69. Dept. of Zoology, Univ. of Wyoming, Laramie, WY (2006)
70. Dept. of Ecology and Evolutionary Biology, Cornell Univ., Ithaca, NY (2006)
71. Cornell Laboratory of Ornithology, Cornell Univ., Ithaca, NY (2006)
72. Dept. of Biology, Concordia Univ., Montréal, QC (2006)
73. Dept. of Biological Sciences, Univ. of Calgary, Calgary, AB (2006)
74. Center for Population Biology, Univ. of California, Davis, CA (2006)
75. Dept. of Fisheries and Aquaculture, Malaspina University-College, Nanaimo, BC (2006)
76. Dept. of Fisheries and Oceans, Pacific Biological Station, Nanaimo, BC (2006)
77. GRECA. Université de Québec á Montréal, Montréal, QC (2006)
78. Natural Resource Sciences, MacDonald Campus, McGill University, Montréal, QC (2006)
79. Dept. of Zoology, Field Museum, Chicago, IL (2006)
80. Dept. of Biological Sciences, Washington Univ., MO (2006)
81. Dept. of Biology, Univ. de Sherbrooke, Sherbrooke, QC (2006)
82. Dept. of Zoology, Univ. of Toronto, Toronto, ON (2006) – *two talks*
83. Center for Population Biology, Univ. of California, Davis, CA (2005)
84. Dépt. de Sciences Biologiques, Univ. de Montréal, Montréal, QC (2005)
85. Dept. of Biology, Clark Univ., Worcester, MA (2004)
86. Dept. of Biology, Univ. de Québec á Montréal, QC (2004)
87. Dept. of Biology, Dalhousie Univ., Halifax, NS (2004) – *two talks*
88. Dept. of Ecology & Evolutionary Biology, Yale Univ., New Haven, CT (2004)
89. Dept. of Ecology, Evolution & Organismal Biol., Ohio State Univ., Columbus, OH (2003)
90. Dept. of Biology, Queen's Univ., Kingston, Ontario (2003)
91. Smithsonian Tropical Research Institute, Panama City, Panama (2003)
92. Redpath Museum, McGill Univ., Montréal, Québec (2003)

93. Dept. of Zoology, Oregon State Univ., Corvallis, OR(2002)
94. Dept. of Population Biology, Helsinki Univ., Helsinki, Finland (2002)
95. Dept. of Population Biology, Uppsala Univ., Uppsala, Sweden(2002)
96. Dept. of Biology, Concordia Univ., Montréal, Québec (2002)
97. Ecology and Evolution Graduate Program. SUNY Stony Brook, NY (2001)
98. National Marine Fisheries Service, NW Fisheries Science Center, Seattle, WA (2001)
99. Evolution Symposium, North Dakota State Univ., Fargo, ND (2001)
100. Institute of Ecology, Univ. of Georgia, Savannah, GA (2001)
100. Dept. of Biological Sciences, Univ. of Maine, Orono, ME (2001)
101. Dept. of Biological Sciences, Univ. of New Orleans, New Orleans, LA (2001)
102. Dept. of Biology, Univ. of North Carolina, Chapel Hill, NC (2001)
103. Dept. of Biology, McGill Univ., Montréal, Québec (2001)
104. Dept. of Biology, Amherst College, Amherst, MA (2001)
105. Dept. of Biology, Univ. of Texas, Arlington, TX (2000)
106. Dept. of Biology, Univ. of Pennsylvania, Philadelphia, PA (2000)
107. Division of Biology, Kansas State Univ., Manhattan, KS (2000)
108. Dept. of Zoology, Univ. of Toronto, Toronto, ON (2000)
109. Dépt. de Biologie, Univ. Laval, Quebec City, QB (2000)
110. Dept. of Fisheries and Wildlife, Utah State Univ., Logan, UT (2000)
111. Organismic and Evolutionary Biology Graduate Program, UMASS, Amherst, MA (1999)
112. Dept. of Zoology, Univ. of British Columbia, Vancouver, BC (1999)
113. Dept. of Zoology, Norwegian Univ. of Science and Tech., Trondheim, Norway (1999)
114. Dept. of Biological Sciences, Idaho State Univ., Pocatello, ID (1999)

**Papers presented at national and international meetings:**

1. American Society of Naturalists, Asilomar, CA (2020)
2. Canadian Society for Ecology and Evolution, Fredericton, NB (2019)
3. Microbial Eco-Evolutionary Dynamics, Lisbon, Portugal (2018)
4. Evolution 2018, Montpellier, France (2018)
5. Canadian Society for Ecology and Evolution, Guelph, ON (2018)
6. Ecological and Evolutionary Ethology of Fishes, Montreal, QC (2018)
7. American Genetics Association, Hawaii (2018)
8. Evolution 2018, Montpellier, France (2018)
9. Stickleback Behavior and Evolution, Kyoto, Japan (2018)
10. American Society of Naturalists, Asilomar, CA (2018)
11. Evolution 2017, Portland, OR (2017)
12. Canadian Society for Ecology and Evolution, Victoria, BC (2017)
13. Gordon Research Conference on Ocean Global Change Biology, Waterville, NH (2016)
14. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA (2016)
15. Eco-evolutionary dynamics in Galapagos, Monte Verita, Switzerland (2016)
16. American Society of Naturalists, Asilomar, CA (2016)
17. The Wildlife Society, Winnipeg, MB (2015)
18. Canadian Society for Ecology and Evolution, Saskatoon, SK (2015)
19. Stickleback Ecology, Behavior, and Evolution, Stony Brook, NY (2015)
20. American Genetics Association, Seattle, Washington (2014)
21. Canadian Society for Ecology and Evolution, Kelowna, Quebec (2013)
22. Japanese Genetics Society, Kyushu, Japan (2012)

23. Ecological Society of America, Portland, Oregon (2012)
24. Stickleback Behavior and Evolution, Bainbridge Island, Washington (2012)
25. Society for the Study of Evolution, Ottawa, Ontario (2012)
26. European Society for Evolutionary Biology, Tuebingen, Germany (2011)
27. Canadian Society for Ecology and Evolution, Banff, Alberta (2011)
28. Canadian Society for Ecology and Evolution, Laval, Quebec (2010)
29. Open Science Conference II, DIVERSITAS, Cape Town, South Africa (2009)
30. Evolutionary Ecology of Fishes, Berlin, Germany (2009)
31. Society for the Study of Evolution, Moscow, ID (2009)
32. Ecological Society of America, Albuquerque, NM (2009)
33. Canadian Society for Ecology and Evolution, Halifax, NS (2009)
34. National Academy of Sciences Symposium, Washington, DC (2009)
35. Ecological and Evolutionary Ethology of Fishes, Boston, MA (2008)
36. Society for the Study of Evolution, Minneapolis, MN (2008)
37. American Society of Ichthyologists and Herpetologists, Montréal, QC (2008)
38. Canadian Conference for Fisheries Research, Montréal, QC (2008)
39. Canadian Society for Ecology and Evolution, Vancouver, BC (2008)
40. Origins and Evolution of Organic Diversity, Hokkaido Univ., Sapporo, Japan (2007)
41. Evolutionary Change in Human Altered Environments, UCLA, CA (2007)
42. Canadian Conference for Fisheries Research, Montréal, QC (2007)
43. Canadian Society for Ecology and Evolution, Toronto, ON (2007)
44. Salmon and Evolution, National Marine Fisheries Service, Seattle, WA (2006)
45. International Congress on the Biology of Fishes, St. Johns, NFLD (2006)
46. Society for the Study of Evolution, Stony Brook, NY (2006)
47. Ecological Society of America, Montréal, QC (2005)
48. Society for the Study of Evolution, Fairbanks, AK (2005)
49. Society for the Study of Evolution, Fort Collins, CO (2004)
50. American Fisheries Society, Québec City, QC (2003)
51. Society for the Study of Evolution, Chico, CA (2003)
52. Ecological and Evolutionary Ethology of Fishes, Québec City, QC (2002)
53. International Society for Behavioral Ecology, Montréal, QC (2002)
54. Society for the Study of Evolution, Knoxville, TN (2001)
55. International Congress on the Biology of Fishes, Aberdeen, Scotland (2000)
56. American Society of Ichthyologists & Herpetologists, State College, PA (1999)
57. Society for the Study of Evolution, Madison, WI (1999)
58. Stickleback Behavior and Evolution, Vancouver, BC (1999)
59. American Fisheries Society, NPIC, Richmond, BC (1999)
60. American Fisheries Society, Hartford, CT (1998)
61. American Society of Ichthyologists & Herpetologists, Guelph, ON (1998)
62. Ecology and Evolutionary Ethology of Fishes, Seattle, WA (1998)
63. Society for the Study of Evolution, Vancouver, WA (1998)
64. American Fisheries Society, NPIC, Union, WA (1998)
65. Pacific Ecology Conference, Penticton, BC (1998)
66. American Fisheries Society, Monterey, CA (1997)
67. American Society of Ichthyologists & Herpetologists, Seattle, WA (1997)
68. American Society of Ichthyologists & Herpetologists, Edmonton, AB (1995)
69. Pacific Ecology Conference, Charleston, OR (1995)
70. Ecological and Evolutionary Ethology of Fishes, Victoria, BC (1994)

71. American Fisheries Society, NPIC, Wenatchee, WA (1994)
72. Pacific Ecology Conference, Bamfield, BC (1994)
73. Lake Washington Fisheries/Limnology Technical Workshop, Seattle, WA (1993)
74. American Fisheries Society, NPIC, Vancouver, BC (1993)

**Reviewer for granting agencies:** NSERC, NSF, EPSCOR, NGS, European Research Council, Austrian Research Council, National Science Centre Poland, Leverhulme Trust, Human Frontier Science Program

**Reviewer for journals:** Nature, Science, Proceedings of the National Academy of Sciences USA, Current Biology, Proceedings of the Royal Society of London B, American Naturalist, PLoS Biology, Evolution, Trends in Ecology and Evolution, Ecology, Ecology and Evolution, Ecology Letters, Nature Ecology and Evolution, Journal of Theoretical Biology, Journal of Evolutionary Biology, Genetics, Evolution Letters, Biology Letters, BioEssays, STOTEN, New Phytologist, Evolutionary Applications, Heredity, Journal of Heredity, Oecologia, Genome Biology and Evolution, Evolutionary Ecology Research, Evolutionary Ecology, Molecular Ecology, PLoS ONE, BMC Evolutionary Biology, Conservation Biology, Biological Journal of the Linnean Society, Biological Reviews, Journal of Morphology, Behaviour, Behavioral Ecology and Sociobiology, Genetica, Functional Ecology, Journal of Experimental Biology, Current Zoology, Global Change Biology, Integrative and Comparative Biology, Ecography, Naturwissenschaften, Animal Conservation, Journal of Wildlife Management, Biological Conservation, International Journal of Ecology, Fish and Fisheries, Canadian Journal of Zoology, Canadian Journal of Fisheries and Aquatic Sciences, Journal of Fish Biology, Transactions of the American Fisheries Society, Marine Biotechnology, Ecology of Freshwater Fishes, North American Journal of Fisheries Management, Fishery Bulletin, Aquaculture, Journal of Avian Biology, Insect Conservation and Diversity, Philippine Journal of Science, Caribbean Journal of Science, Quantitative Science Studies, Zoological Journal of the Linnean Society.

**Major research grants – past:**

1. NSERC CREATE, 2015-2021: *Biodiversity, ecosystem services, and sustainability*. Total from NSERC: \$1,650,000 CAD. Matching from other sources: +\$874,000 CAD. (PI)
2. FQRNT Team Grant, 2018-2021. *Host-parasite eco-evolutionary dynamics: experimental manipulations in nature to reveal causality*. Total: \$162,000 CAD. (PI)
3. National Science Foundation (NSF), Evolutionary Genetics, 2015-2018: *Collaborative Research: Is (non)parallel evolution driven by (non)parallel selection?* Total: \$1,026,426 USD (Senior personnel)
4. FQRNT Team Grant, 2015-2018. *Incorporating evolution into invasion biology: native species resilience in the face of exotic invasion*. Total: \$144,000 CAD. (co-applicant)
5. NSERC Discovery Grant, 2013-2018: *Eco-evolutionary dynamics*. Total: \$210,000 CAD. (PI)
6. BC Ministry of Environment and Department of Fisheries and Oceans, 2016. *Distribution, abundance, and diversity of Misty Lentic and Misty Lotic stickleback*. Total: \$25,000 CAD. (PI)
7. NSERC Research Tools and Equipment, 2015. *Freshwater wells to support research in evolutionary genomics, physiology, and aquaculture, at Bamfield Marine Sciences Centre*. Total: \$61,716 CAD (co-applicant)
8. FQRNT Team Grant, 2013-2015: *Propagation des infections par dispersion au sein des communautés hôte-parasites en milieu aquatique*. Total: \$156,000 CAD. (co-applicant)
9. NSF, Evolutionary Processes Cluster, 2012-2014: *Collaborative Research: Parallel and non-parallel evolution at multiple levels: environment, selection, phenotype, and*

- genotype*. Total: \$900,000 USD. (Senior personnel)
10. NSERC – Major Resources Support (2011-2014). *Bamfield Marine Sciences Centre*. Total: 1,200,000 CAD. (Co-applicant)
  11. NSERC Research Tools and Equipment, 2013. Aquatron to study the genomics of adaptation to environmental change. Total: \$116,875 CAD. (Co-applicant)
  12. NSERC Research Tools and Equipment, 2013. *Aquatic housing to study the ecology and evolution of fishes at the Bamfield Marine Sciences Centre*. Total: \$62,760 CAD (Co-applicant)
  13. NSERC Discovery Grant, 2012: *The microevolution of biological diversity*. Total: \$33,000 CAD. (PI)
  14. NSERC Research Tools and Equipment, 2012. *Biodiversity research at the Redpath Museum: field vehicle*. Total: \$31,794 CAD. (PI)
  15. Institut Paul-Emile Victor (French Polar Institute), 2009-2012: *Evolutionary ecology of salmonid colonization of the Kerguelen Islands*. Total: \$250,000 Euro. (Senior personnel)
  16. NSERC Discovery Grant, 2007-2012: *The microevolution of biological diversity*. Total: \$250,220 CAD. (PI)
  17. NSERC Discovery Grant – Accelerator Supplement, 2007-2012. *The microevolution of biological diversity*. Total: \$120,000 CAD. (PI)
  18. NSERC Special Research Opportunity, 2008-2011. *Ecology and evolution of host-parasite relationships in a real ecosystem*. Total: \$351,860 CAD. (Co-PI)
  19. NSERC Discovery Grant – Steacie Supplement, 2009-2011. *Eco-evolutionary dynamics*. Total: \$359,940 CAD. (PI)
  20. NSERC Research Tools and Equipment, 2010. *Integrated laboratory system for eco-evolutionary research on small fishes*. Total: \$47,867 CAD. (PI)
  21. NSF, Frontiers in Integrative Biological Research (FIBR), 2007-2010: *Linking genes to ecosystems: How do ecological and evolutionary processes interact in nature?* Total: \$5,003,604 USD. (Senior personnel)
  22. National Geographic Society, 2009. *Ecological and evolutionary impacts of introduced trout on Patagonian lakes*. Total: \$21,603 USD (PI)
  23. NSERC Research Tools and Equipment – Steacie Supplement, 2009. *Eco-evolutionary dynamics (field truck and boat)*. Total: \$51,377 CAD. (PI)
  24. NSERC Discovery Grant, 2002-2007: *Natural selection, reproductive isolation, and the evolution of biological diversity*. Total: \$205,000 CAD. (PI)
  25. NSF, Biological Oceanography, 2007-2009: *Collaborative Research: A Comparison of the mating system and evolutionary potential of lemon sharks, Negaprion brevirostris, at two nursery sites in the western Atlantic*. Total: \$412,910 USD. (Senior personnel)
  26. NSF, Population Biology Panel, 2003-2006: *Adaptive divergence versus gene flow in the wild: evaluation in Trinidadian guppy populations*. Total: \$399,139 USD. (Senior personnel)