

Peter M. Kotanen
Short Curriculum Vitae

BIOGRAPHICAL INFORMATION

Date of Birth: January 17, 1961

Citizenship: Canadian

University Address

Department of Biology
(Department of Ecology and Evolutionary Biology)
University of Toronto Mississauga
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Mississauga, Ontario Canada L5L 1C6

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Research Interests: I study ecological interactions between plants and their natural enemies (herbivores and pathogens). My recent research has centred on the effects of natural enemies on non-native species; ongoing projects focus on the question of whether escape from natural enemies promotes the survival and spread of exotic plants, and whether escape from enemies is more likely in marginal populations. Other recent research has included studies of seed ecology and of the effects of grazing by northern goose populations.

Degrees

Ph.D. (Ecology) (1994) University of California, Berkeley, Department of Zoology; Supervisor: W.P. Sousa
Thesis title: Revegetation of meadows disturbed by feral pigs in Mendocino County, California.

M.Sc. (Ecology) (1987) University of Toronto, Department of Botany; Supervisor: R.L. Jefferies.
Thesis title: A comparison of the growth responses of three sedges to foraging by Lesser Snow Geese.

B.Sc. (Honours) (1985) University of Toronto (Trinity College)
Specialist in Botany and Zoology

Employment

2018 - present	Professor, Department of Biology, University of Toronto Mississauga
2001 - 2018	Associate Professor, Department of Biology, University of Toronto Mississauga
1996 - 2001	Assistant Professor, Department of Botany, University of Toronto Mississauga
1994 - 1996	Postdoctoral Research Associate, Department of Ecology and Evolution, University of Chicago

Professional Activities and Impacts

Editorial positions

2019 - Associate Editor, Biological Invasions (Kluwer)
2008 - present: Associate Editor, Ecology / Ecological Monographs (Ecological Society of America)
2001 - present: Associate Editor (Ecology), Botany (NRC Press)
2005 - 2008: Associate Editor, Acta Oecologica (Elsevier)

Memberships

Centre for Urban Environments, University of Toronto
Centre for Global Change Science, University of Toronto
Canadian Society for Ecology and Evolution
Brodie Club

Visiting professorships

2019: School of Biological Sciences, University of Canterbury (Christchurch, New Zealand).

2007: Key Arid Grassland Ecology Lab (Lanzhou University, China).

2003: Laboratoire d'Ecologie, Systématique et Evolution, University of Paris XI (Orsay, France).

Field Sites and Expeditions (research, teaching, and collecting)

2010	Southampton Island, Nunavut
2009	Namaqualand, South Africa
2009	Costa Rica
2007	Tibetan Plateau, Gansu Province, China
2003	Various locations, France and England
2001	Polar Bear Provincial Park and Hudson Bay Coast, Ontario
1998-2008	Akimiski Island, Nunavut
1997	Bylot Island, Nunavut
1997-present	Koffler Scientific Reserve, Ontario
1995-1996	Shortgrass Steppe LTER, Colorado
1993	Mountain Lake, Virginia, USA
1991	Barro Colorado Island and Goleta Marine Lab, Panamá
1990-1993, 2000	Angelo Reserve, Mendocino Country, California
1987-1990	Bodega Marine Lab, California
1985	Keewatin District, Nunavut
1984-present	Churchill and La Pérouse Bay, Manitoba
1980-present	Algonquin Park, Ontario

The Koffler Scientific Reserve at Jokers Hill

The Koffler Scientific Reserve at Jokers Hill (KSR) is a 350 ha research station near Newmarket, Ontario. It was donated to the University in 1995, and since has become the University's major ecological research station. This site has supported research by scores of faculty and their students from around world, including Canada, Australia, China, the Czech Republic, France, and the USA, resulting in more than 180 refereed publications (as of 2017). This site is also used extensively for undergraduate teaching, has housing and modern lab facilities, and has remarkable conservation value. Much more information may be found at <http://ksr.utoronto.ca>. I have worked at this site continuously since 1997, have served as chair of the Scientific Oversight Committee, and am currently a member. Most of my students have conducted research at this site, and my lab group compiled the KSR species lists, totalling more than 800 plant and animal taxa.

C. SCHOLARLY AND PROFESSIONAL WORK (supervised students in **bold** font)

Summary (citation statistics: Google Scholar; ORCID ID: orcid.org/0000-0002-7842-8715)	
Peer-reviewed papers	52
Invited lectures	42
Other lectures and posters	89
Citations	3448
h-index	28
i10 Index	41

Open-access versions of many of my publications may be found at TSpace: <https://tspace.library.utoronto.ca/>

Refereed Publications

- 1) **Nunes** K.A. and P.M. Kotanen (2018) Does local isolation allow an invasive thistle to escape enemy pressure? *Oecologia* 188: 139-147.
- 2) Fitzpatrick C.R., J. Copeland, P.W. Wang, D.S. Guttman, P.M. Kotanen, and M.T J. Johnson (2018) Assembly and function of the angiosperm root microbiome. *Proceedings of the National Academy of Sciences of the US* 115: E1157-E1165.

- 3) **Nunes** K.A. and P.M. Kotanen (2018) Comparative impacts of aboveground and belowground enemies on an invasive thistle. *Ecology and Evolution* 8: 1430-1440.
- 4) **Lee**, Y. and P.M. Kotanen (2017) Differences in herbivore damage to *Arctium minus* in open and forest habitats in its non-native range. *Botany* 95: 841-845.
- 5) Fitzpatrick, C.R., L. Gehant, P.M. Kotanen, and M.T.J. Johnson (2017) Phylogenetic relatedness, phenotypic similarity, and plant-soil feedbacks. *Journal of Ecology* 105: 786-800.
- 6) Anstett, D.N., K.A. **Nunes**, C. Baskett, and P.M. Kotanen (2016) Sources of controversy surrounding latitudinal patterns in herbivory and defence. *Trends in Ecology and Evolution* 10: 789-802.
- 7) **Santangelo**, J.S. and P.M. Kotanen (2016) Non-systemic fungal endophytes increase host survival but reduce tolerance to herbivory in subarctic *Festuca rubra*. *Ecosphere*. *Ecosphere* 7: e01260. DOI: 10.1002/ecs2.1260
- 8) **Nunes** K.A., C.M., **Cassin**, and P.M. Kotanen (2016) Variation in herbivory along a latitudinal gradient for native and exotic Asteraceae. *Plant Ecology* 217: 481-493.
- 9) **Cassin**, C.M. and P.M. Kotanen (2016) Invasive earthworms as seed predators of temperate forest species. *Biological Invasions* 18:1567-1580.
- 10) **Lee**, Y. and P.M. Kotanen (2015) Differences in herbivore damage and performance among *Arctium minus* (burdock) genotypes sampled from a geographic gradient: a common garden experiment. *Biological Invasions* 17: 397-408.
- 11) Biswas, S.R., P.M. Kotanen, D. **Kambo**, and H.H. Wagner (2015) Context-dependent patterns, determinants and demographic consequences of herbivory in an invasive species. *Biological Invasions* 17: 165-178.
- 12) Colautti, R.I., O. Bossdorf, S.J. Franks, R.A. Huffbauer, M. Torchin, and P.M. Kotanen (2014) The Global Garlic Mustard Field Survey: challenges and opportunities of a unique, large-scale collaboration for invasion biology. *NeoBiota* 21: 29-47
- 13) **Kambo**, D. and P.M. Kotanen (2014) Latitudinal trends in herbivory and performance of an invasive species, common burdock (*Arctium minus*). *Biological Invasions* 16: 101-112.
- 14) Kotanen, P.M. and K.F. Abraham (2013) Decadal changes in vegetation of a subarctic salt marsh used by lesser snow and Canada geese. *Plant Ecology* 214: 409-422.
- 15) Dunn, A.M., M.E. Torchin, M.J. Hatcher, P.M. Kotanen, D.M. Blumenthal, J.E. Byers, C.A.C. Coon, V.M. Frankel, R.D. Holt, R.A. Huffbauer, A.R. Kanarek, K.A. Schierenbeck, L.M. Wolfe, and S. E. Perkins (2012) Indirect effects of parasites on invasions. *Functional Ecology*: 26: 1262-1274.
- 16) **Hill**, S.B. and P.M. Kotanen (2012) Biotic interactions experienced by a new invader: effects of its close relatives at the community scale. *Botany* 90: 35-42.
- 17) **Hill**, S.B. and P.M. Kotanen (2011) Phylogenetic structure predicts capitular damage to Asteraceae better than origin or phylogenetic distance to natives. *Oecologia* 166: 843-851.
- 18) **Hill**, S.B. and P.M. Kotanen (2010) Phylogenetically structured damage on Asteraceae: susceptibility of native and exotic species to foliar herbivores. *Biological Invasions* 12: 3333-3342.
- 19) **MacDonald**, A.A.M. and P.M. Kotanen (2010) Leaf damage has weak effects on growth and fecundity of common ragweed (*Ambrosia artemisiifolia*). *Botany* 88: 158-164.
- 20) **MacDonald**, A.A.M. and P.M. Kotanen (2010) The effects of disturbance and enemy exclusion on performance of an invasive species, common ragweed, in its native range. *Oecologia* 162: 977-986.
- 21) **Hill**, S.B. and P.M. Kotanen (2009) Evidence that phylogenetically novel non-indigenous plants experience less herbivory. *Oecologia* 161: 581-590.
- 22) **MacKay**, J. and P.M. Kotanen (2008) Local escape of an invasive plant, common ragweed (*Ambrosia artemisiifolia* L.), from above-ground and below-ground enemies in its native area. *Journal of Ecology* 96: 1152-1161.
- 23) Kotanen, P.M. (2007) Effects of fungal seed pathogens under conspecific and heterospecific trees in a temperate forest. *Canadian Journal of Botany* 85: 918-925.
- 24) **O**, P.C., P.M. Kotanen, and K.F. Abraham (2006) Geese and grazing lawns: responses of the grass *Festuca rubra* to defoliation in a subarctic coastal marsh. *Canadian Journal of Botany* 84: 1732-1739.
- 25) **O'Hanlon-Manners**, D.L. and P.M. Kotanen (2006) Losses of seeds of temperate trees to soil fungi: effects of habitat and host ecology. *Plant Ecology* 187: 49-58.
- 26) Genton B. P.M. Kotanen, P.-O. Cheptou, C. Adolphe and J.A. Shykoff (2005) Enemy release but no evolutionary loss of defence during ragweed invasion of France: an inter-continental reciprocal transplant experiment. *Oecologia* 146: 404-414.

- 27) Agrawal, A.A., P.M. Kotanen, C.E. Mitchell, J. Klironomos, A.G. Power, and W. Godsoe (2005) Enemy release? An experiment with congeneric plant pairs and diverse above- and belowground enemies. *Ecology* 86: 2979-2989.
- 28) O, P.C., P.M. Kotanen, and K.F. Abraham (2005) Survival and growth of the forage grass *Festuca rubra* in naturally and artificially revegetated sites in a sub-arctic coastal marsh. *Écoscience* 12: 279-285.
- 29) Schafer, M. and P.M. Kotanen (2004) Impacts of naturally-occurring soil fungi on seeds of meadow plants. *Plant Ecology* 175: 19-35.
- 30) O'Hanlon-Manners, D.L. and P.M. Kotanen (2004) Evidence that fungal pathogens inhibit recruitment of a shade-intolerant tree, White Birch (*Betula papyrifera*), in understory habitats. *Oecologia* 140: 650-653.
- 31) Kotanen, P.M. (2004) Revegetation following soil disturbance and invasion in a Californian meadow: a 10-year history of recovery. *Biological Invasions* 6: 245-254.
- 32) O'Hanlon-Manners, D.L. and P.M. Kotanen (2004) Logs as refuges from fungal pathogens for seeds of Eastern Hemlock (*Tsuga canadensis*). *Ecology* 85: 284-289.
- 33) Schafer, M. and P.M. Kotanen (2003) The influence of soil moisture on losses of buried seeds to fungi. *Acta Oecologica* 24: 255-263.
- 34) Agrawal, A.A. and P.M. Kotanen (2003) Herbivores and the success of exotic plants: a phylogenetically controlled experiment. *Ecology Letters* 6: 1-4.
- 35) Blaney, C.S. and P.M. Kotanen (2002) Persistence in the seed bank: an experimental comparison of native and alien plants. *Écoscience* 9: 509-517.
- 36) Kotanen, P.M. (2002) Fates of added nitrogen in fresh-water arctic wetlands grazed by Snow Geese: the role of mosses. *Arctic, Antarctic, and Alpine Research* 34: 219-225.
- 37) Blaney, C.S. and P.M. Kotanen (2001) Effects of fungal pathogens on seeds of native and exotic plants: a test using congeneric pairs. *Journal of Applied Ecology* 38: 1104-1113.
- 38) Blaney, C.S. and P.M. Kotanen (2001) Post-dispersal losses to seed predators: an experimental comparison of native and exotic old field plants. *Canadian Journal of Botany* 79: 284-292.
- 39) Blaney, C.S. and P.M. Kotanen (2001) The vascular flora of Akimiski Island, Nunavut Territory. *The Canadian Field-Naturalist* 115: 88-98.
- 40) Kotanen, P.M., and J.P. Rosenthal (2000) Tolerating herbivory: does the plant care if the herbivore has a backbone? *Evolutionary Ecology* 14: 537-549.
- 41) Kotanen, P.M. and Bergelson, J. (2000) Effects of simulated grazing on different genotypes of *Bouteloua gracilis*: how important is morphology? *Oecologia* 123: 66-74.
- 42) Kotanen, P.M., J. Bergelson, and D.L. Hazlett (1998) Habitats of native and exotic plants in Colorado shortgrass steppe: a comparative approach. *Canadian Journal of Botany* 76: 664-672.
- 43) Kotanen, P.M. (1997) Effects of experimental soil disturbance on revegetation by natives and exotics in coastal Californian meadows. *Journal of Applied Ecology* 34:631-644.
- 44) Kotanen, P.M. (1997) Effects of gap area and shape on recolonization by grassland plants with differing reproductive strategies. *Canadian Journal of Botany* 75: 352-361.
- 45) Kotanen, P.M. and R.L. Jefferies (1997) Long-term destruction of wetland vegetation by Lesser Snow Geese. *Écoscience* 4:1895-1898.
- 46) Kotanen, P.M. (1996) Revegetation following soil disturbance in a California meadow: the role of propagule supply. *Oecologia* 108:652-662.
- 47) Kotanen, P.M. (1995) Responses of vegetation to a changing regime of disturbance: effects of feral pigs on a Californian Coastal Prairie. *Ecography* 18:190-199.
- 48) Rosenthal, J.P. and P.M. Kotanen (1994) Terrestrial plant tolerance to herbivory. *Trends in Ecology and Evolution* 9:145-148.
- 49) Kerbes, R.H., P.M. Kotanen, and R.L. Jefferies (1990) Destruction of wetland habitats by Lesser Snow Geese: a keystone species on the west coast of Hudson Bay. *Journal of Applied Ecology* 27:242-258.
- 50) Kotanen, P.M. and R.L. Jefferies (1989) Responses of arctic sedges to release from grazing: leaf demography of *Carex Xflavicans*. *Canadian Journal of Botany* 67:1408-1413.
- 51) Kotanen, P.M. and R.L. Jefferies (1989) Responses of arctic sedges to release from grazing: leaf elongation in two species of *Carex*. *Canadian Journal of Botany* 67:1414-1419.
- 52) Kotanen, P.M. and R.L. Jefferies (1987) The leaf and shoot demography of grazed and ungrazed plants of *Carex subspathacea*. *Journal of Ecology* 75:961-975.

Refereed publications by co-supervised students

- 1) **McLaren**, J.R. and R.L. Jefferies (2004) Initiation and maintenance of vegetation mosaics in an Arctic salt marsh. *Journal of Ecology* 92:648-660.

Invited Lectures

- 1) Kotanen, P.M. (2018) Enemy release as an ongoing process for invasive plants. Biology Department, Trent University, Peterborough, ON.
- 2) Kotanen, P.M. (2018) Running scared: enemy release as a continuing process for invasive plants. Biology Department, Wilfrid Laurier University, Waterloo, ON.
- 3) Kotanen, P.M. (2017) Latitudinal and local variation in damage by above- and below- ground enemies of an invasive thistle. Department of Ecology and Evolutionary Biology, Queen's University, Kingston, ON.
- 4) Kotanen, P.M., K.F. Abraham, and C.M. Sharp (2017) Reconstructing habitat change at a multi-species goose breeding area, East Bay, Southampton Island, Nunavut. Invited by The Herbivory Network (<http://herbivory.biology.ualberta.ca/>). Annual meeting of the Canadian Society for Ecology and Evolution, Victoria, BC.
- 5) Kotanen, P.M. (2017) Variation at multiple spatial scales in damage by above- and below- ground enemies of an invasive thistle. York University, Toronto, ON.
- 6) Kotanen, P.M. (2016) Do invading plants escape their natural enemies? The Brodie Club, Toronto, ON.
- 7) Kotanen, P.M. (2015) Do invading plants escape their enemies? University of Toronto Senior College, Toronto, ON.
- 8) Kotanen, P.M. (2013) Latitudinal and local variation in interactions between non-native plants and their old and new enemies. Annual meeting of the Entomological Society of America, Austin, TX.
- 9) Kotanen, P.M. (2013) Interactions between invasive plants and their natural enemies in marginal populations. Annual Meeting of the Ontario Invasive Plant Council, Orillia.
- 10) Kotanen, P.M. (2011) Interactions between invasive plants and their enemies at range margins. Lakehead University, Thunder Bay.
- 11) Kotanen, P.M. (2011) Enemies and invaders at range margins. Annual meeting of the British Ecological Society, Sheffield.
- 12) Kotanen, P.M. (2010) Spatial variation in interactions with natural enemies. Global Invasions Network Meeting, Smithsonian Tropical Research Institute, Panama.
- 13) Kotanen, P.M. (2010) Spatial variation in the effects of pathogens on seed germination: how habitat affects susceptibility to soil fungi. Plenary talk, Seed Ecology III, Salt Lake City, UT.
- 14) Kotanen, P.M. (2009) Escape of invasive plants from herbivory: the role of native relatives. Nederlands Instituut voor Ecologie, Heteren, The Netherlands.
- 15) Kotanen, P.M. (2009) Habitat-specific effects of soil pathogens on seed germination. 7th International Symposium on Integrated Field Science, Tohoku University, Sendai, Japan.
- 16) Kotanen, P.M. (2009) Escape of invasive plants from herbivory: how different is different enough? Annual meeting of the Ecological Society of America, Albuquerque.
- 17) Kotanen, P.M. (2007) Darwin's Naturalization Hypothesis and the Enemy Release theory of plant invasions. University of Toronto at Scarborough.
- 18) Kotanen, P.M. (2007) Assessing the Enemy Release Hypothesis for invaders of old-field grasslands. Beijing Normal University, Beijing, China.
- 19) Kotanen, P.M. (2007) Effects of grazing by Lesser Snow Geese on arctic grasslands. Arid and Grassland Research Institute, Lanzhou University, Lanzhou, China.
- 20) Kotanen, P.M. (2007) Assessing the Enemy Release Hypothesis for invaders of old-field grasslands. Arid and Grassland Research Institute, Lanzhou University, Lanzhou, China.
- 21) Kotanen, P.M. (2007) Escape from enemies at local and large scales: how different are native and non-indigenous plants? Colonization versus invasion: do the same traits matter: international workshop, Ascona, Switzerland (sponsored by University of Zurich / ETH Zurich).
- 22) Kotanen, P.M. (2004) Do exotic plants escape their enemies? Tests using congeneric pairs. Annual meeting of the Ecological Society of America, Portland, OR.
- 23) Kotanen, P.M. (2004) Do exotic plants escape their enemies? Tests using congeneric pairs. Silwood Park, Imperial College, UK.

- 24) Kotanen, P.M. (2004) Does the Enemy Release Hypothesis explain plant invasions? Tests using congeneric pairs. Trent University, Peterborough, ON.
- 25) Kotanen, P.M. (2003) Do exotic plants escape their enemies? Tests using congeneric pairs. Université Paris-Sud, Orsay, France.
- 26) Kotanen, P.M. (2003) Do seed pathogens limit plant invasions? University of Waterloo, ON.
- 27) Kotanen, P.M. (2003) Do seed pathogens limit invasiveness? University of Guelph, ON.
- 28) Kotanen, P.M. (2002) Does escape from seed pathogens contribute to plant invasions? University of Western Ontario, London, ON.
- 29) Kotanen, P.M. (2001) Do seed pathogens play a role in plant invasions? McMaster University, Hamilton, ON.
- 30) Kotanen, P.M. (2000) Effects of Lesser Snow Geese on Hudson Bay wetlands. Québec 2000 Millennium Wetland Event (Society of Wetland Scientists / INTECOL), Québec City, QC.
- 31) Kotanen, P.M. (1999) Too much of a good thing: impacts of Snow Geese on tundra vegetation. Cornell University. Ithaca, NY.
- 32) Kotanen, P.M. (1998) Impacts of Snow Geese on tundra vegetation: links between temperate agriculture and arctic habitat destruction. SUNY Brockport, NY.
- 33) Kotanen, P.M. (1998) Statistical Issues. 9th North American Arctic Goose Conference & Workshop, Victoria, BC.
- 34) Kotanen, P.M. (1998) Links between disturbance, exotic animals, and invasions by exotic plants. BUDS Seminar, University of Toronto, ON.
- 35) Kotanen, P.M. (1997) Impacts of Snow Geese on tundra plant communities. Field Botanists of Ontario, Brock University, St. Catherines, ON.
- 36) Kotanen, P.M. (1997) Grazing and disturbance by exotic animals: consequences for plant invasions. Ecology Seminar Series, St. George Campus, University of Toronto, ON.
- 37) Kotanen, P.M. (1997) Links between exotic animals and plant invasions. Scarborough College, University of Toronto, ON.
- 38) Kotanen, P.M. (1997) Pigs and other exotic animals as aids to plant invasions. Université Laval, Québec, QC.
- 39) Kotanen, P.M. (1995) Natives, aliens, and propagules in meadows disturbed by feral pigs. Department of Rangeland Ecosystem Science, Colorado State University, Fort Collins, CO.
- 40) Kotanen, P.M. (1994) Natives and invaders in a plant community disturbed by feral pigs. Natural History Seminar Series, University of Chicago, IL.
- 41) Kotanen, P.M. (1993) How do wild pigs affect grassland plant communities? The Wild Pig in California Oak Woodland: Ecology and Economics, Symposium, San Luis Obispo, CA.
- 42) Kotanen, P.M. (1991) World turned upside down. Botany Department, University of Toronto, ON.

Datasets

- 1) GenBank accessions (2017) Bold Datasystems Dataset Code: NIEFK (Subarctic endophytic fungi)
 BankIt1982676 KY460684 - KY460739
 BankIt1982679 KY460740 - KY460781
 BankIt1982681 KY460782 - KY460835
 BankIt1982682 KY460836 - KY460881
 BankIt1982683 KY460882 - KY460970
- 2) GenBank accessions (2017) Bold Datasystems Dataset Code: DS-PKUM (Fungus gnat and host)
 BankIt1982022 ABCBF333-16.ITS KY441712 (*Arthuriomyces peckianus*)
 BankIt1982021 ABCBF332-16.COI-5P KY441710 (*Cecidomyiidae* sp.)
 BankIt1982021 ABCBF331-16.COI-5P KY441711 (*Cecidomyiidae* sp.)
- 3) GenBank accessions (2013) Bold Datasystems Dataset Code: DS-AMLV (*Arctium* larvae)
[dx.doi.org/10.5883/DS-AMLV](https://doi.org/10.5883/DS-AMLV)
 BankIt1641569 UOFTL005-11.COI-5P KF297835 (2013) (*Metzneria lappella*)
 BankIt1641569 UOFTL002-11.COI-5P KF297836 (2013) (*Herpetogramma pertextalis*)
 BankIt1641569 UOFTL003-11.COI-5P KF297837 (2013) (*Calycomyza flavinotum*)
 BankIt1641569 UOFTL001-11.COI-5P KF297838 (2013) (*Agromyzidae* sp.)
 BankIt1641569 UOFTL004-11.COI-5P KF297839 (2013) (*Eupsilia morrisoni*)

- 4) North American Bird Banding Program: >2000 bands on passerines (Long Point ON, Prince Edward Point ON, Toronto Islands ON), Snow and Canada Geese (La Pérouse Bay MB, Akimiski Island NU)
- 5) Ontario Breeding Bird Atlas: contributor for first and second atlas (1981-1985 and 2001-2005)
- 6) Christmas Bird Count Participant: primarily Algonquin Park (1980-present)
- 7) Herbarium specimen donations: numerous vascular plant accessions (APM, TRT, TRTE)

Symposia Organized

- 2017 Co-organizer (with Pedro Antunes), Accounting for soil biota feedbacks in invasive plant management. Symposium at the 14th International Conference on the Ecology and Management of Alien Plant Invasions, Lisbon, Portugal.
- 2014 Lead organizer, Terrestrial Invasive Plant Species II (TIPS II). U. of Toronto at Mississauga, ON.
- 2007 Session chair, Colonization versus invasion: do the same traits matter: international workshop, Ascona, Switzerland (sponsored by University of Zurich / ETH Zurich).
- 1997 Lead organizer, 1997 Ontario Plant-Herbivore Workshop. University of Toronto at Mississauga, ON.

TEACHING AND SUPERVISION

Courses Currently Taught (course descriptions adapted from the University course calendar)

BIO 330S Plant Ecology: A survey of the population and community ecology of plants. Topics include resource acquisition, growth and reproduction, mutualisms, competition, defence, invasions, disturbance, population dynamics, and community structure. Interactions with other plants, diseases, and animals particularly are emphasized.

BIO 481Y Biology Research Project (co-ordinator): Students in this course will conduct a research project under the supervision of a faculty member in the Department of Biology. The course is open to third and fourth year students. Students learn how to design, carry out, and evaluate the results of a research project. Students are required to write and present a research proposal, write a term paper, and present a seminar on the results of their research project.

List of Graduate Students

- 1) Jason **Verbeek** (M.Sc. 2017)
 - Thesis title: Shared enemies and the competitive ability of native plants in populations of an invasive plant (*Cirsium arvense*)
 - Current position: Recent graduate
- 2) Krystal **Nunes** (Ph.D. 2017)
 - Thesis title: Impacts of aboveground and belowground interactions on the performance of an invasive thistle, *Cirsium arvense*
 - Current position: Instructor, University of Toronto, and Environmental Educator with the Kortright Centre for Conservation (Toronto and Region Conservation Authority).
- 3) Colin **Cassin** (M.Sc. 2015)
 - Thesis title: The importance of invasive earthworms as seed predators of common forest flora of Ontario
 - Current position: Program & Policy Analyst for the Invasive Species Centre, Sault Ste. Marie.
- 4) Yoonsoo **Lee** (M.Sc. 2013)
 - Thesis title: Sources of Spatial variation in herbivory and performance of an invasive non-native plant, Common Burdock (*Arctium minus*)
 - Current position: Program Instructor at Downsview Park, Toronto.
- 5) Dasvinder **Kambo** (M.Sc. 2012)
 - Thesis title: Differences in performance and herbivory along a latitudinal gradient for common burdock (*Arctium minus*)
 - Current position: Completed a Ph.D. with Ryan Danby at Queen's University.

- 6) Steven **Hill** (Ph.D. 2009)
 - Thesis title: Biotic resistance to non-indigenous plants: are phylogenetically novel invaders more likely to escape enemies?
 - Current position: Director, Dougan & Associates (environmental assessment).
- 7) Andrew **MacDonald** (M.Sc. 2009)
 - Thesis title: The effects of biotic interactions on *Ambrosia artemisiifolia* L.
 - Current position: Completed a Ph.D. with Diane Srivastava at the University of British Columbia; now a postdoc in the same lab.
- 8) James **MacKay** (M.Sc. 2008)
 - Thesis title: Local escape of Common Ragweed (*Ambrosia artemisiifolia*) from above- and below-ground natural enemies.
 - Current position: City of London Ontario's Ecologist.
- 9) Pamela **O** (M.Sc. 2003) (Primary supervisor; co-supervised with K.F. Abraham of the Ontario Ministry of Natural Resources)
 - Thesis title: Responses of *Festuca rubra* to natural and simulated foraging by geese on Akimiski Island, Nunavut Territory.
 - Current position: Completed a Ph.D. with Greg Henry, Department of Geography, University of British Columbia.
- 10) Deborah **O'Hanlon-Manners** (M.Sc. 2002)
 - Thesis title: The influence of habitat type on losses of tree seeds to fungal pathogens.
 - Current position: Working for the Department of Chemistry, University of Bristol.
- 11) Jennie **McLaren** (M.Sc. 2002) (Co-supervisor; Primary supervisor: R.L. Jefferies)
 - Thesis title: Vegetation mosaics, patch dynamics and alternate stable states in an Arctic intertidal marsh.
 - Current position: Assistant Professor at the University of Texas at El Paso.
- 12) Michelle **Schafer** (M.Sc. 2001)
 - Thesis title: Effects of fungal pathogens on seeds of grasses from meadow habitats.
 - Current position: Technician at Ontario's Centre of Forensic Sciences.
- 13) Sean **Blaney** (M.Sc. 1999)
 - Thesis title: Seed bank dynamics of native and exotic plants in open uplands of southern Ontario.
 - Also compiled the species lists (> 800 plants, birds, 30 mammals, herpetiles) for the Koffler Scientific Reserve (<http://ksr.utoronto.ca/SpeciesList>)
 - Current position: Executive Director of the Atlantic Canada Conservation Data Centre (<http://www.accdc.com>)