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Vital Statistics

- Date of birth: March 26, 1972
 - Citizenship: Canadian (with Australian permanent residency)
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Employment

2009- Associate Professor & Tier 2 Canada Research Chair, Dept. Biology, University of Ottawa
2006-09 Assistant Professor & Tier 2 Canada Research Chair, Dept. Biology, University of Ottawa

Education

2003-05 Postdoctoral Fellow
Department of Zoology & Entomology, University of Queensland (with Mark Blows)

2001-03 Joint Postdoctoral Fellow
Department of Biological Sciences, Simon Fraser University (with Arne Mooers) and
Department of Zoology, University of British Columbia (with Michael Whitlock)

1998-01 Ph.D., Department of Zoology, University of British Columbia
Supervisor: Dolph Schluter; Thesis: *Ecological mechanisms in species origins*

1995-97 M.Sc., Department of Zoology, University of British Columbia
Supervisor: Dolph Schluter; Thesis: *Reinforcement of stickleback mate preferences: sympatry breeds contempt*

1991-95 Honours B.Sc. (with High Distinction), University of Toronto, Biology Specialist Program

Competitive Research Funding

2011 NSF: Catalyzing New International Collaborations; PI: K. Dyer, U. Georgia (US \$50,429)
2011 NSERC Discovery Grant Accelerator (CAD \$40,000/year for three years)
2011 NSERC Discovery Grant (CAD \$46,000/year for five years)

- 2009 Linkage International Grant, Australian Research Council (AUD \$81,000)
- 2007 Early Researcher Award, Ontario Ministry of Research & Innovation (CAD \$100,000) with CAD \$50,000 matching funds from University of Ottawa
- 2006 NSERC Discovery Grant (CAD \$37,900/year for five years)
- 2006 Canada Foundation for Innovation, CRC Infrastructure Fund (CAD \$100,514)
- 2006 Distinguished Research Award, Ontario Innovation Trust (CAD \$100,514)
- 2004 University of Queensland, Early Career Researcher Grant (AUD \$28,000)
- 2004 University of Queensland, New Staff Start-Up Grant (AUD \$12,000)
- 2003 Australian Research Council, Discovery Project (AUD \$212,766)
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Scholarships, Fellowships and Other Awards

i) Postgraduate

- Young Researcher Award, University of Ottawa (2011)
- Early Researcher Award, Ontario Ministry of Research & Innovation (2007)
- Canada Research Chair, Tier II (2006-2010), renewed (2010-2014)
- Australian Postdoctoral Fellowship, Australian Research Council (2003-06)
- Dobzhansky Prize, Society for the Study of Evolution (2002)
- Young Investigator's Prize, American Society of Naturalists (2002)
- E.B. Eastburn Postdoctoral Fellowship, Hamilton Foundation (2001-03)

ii) Graduate

- Killam Memorial Predoctoral Fellowship, University of British Columbia (2000-01)
 - Craig Sandercock Memorial Scholarship, University of British Columbia (1999)
 - NSERC Postgraduate Scholarship B, University of British Columbia (1998)
 - NSERC Postgraduate Scholarship A, University of British Columbia (1995)
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Contributions to Research

i) Publications in Refereed Journals

Chenoweth, S.F., N.C. Appleton, S.L. Allen and **H.D. Rundle**. 2015. Genomic evidence that sexual selection impedes adaptation to a novel environment. *Current Biology*: *In press*.

Oudin, M.J., R. Bonduriansky and **H.D. Rundle**. 2015. Experimental evidence of condition-dependent sexual dimorphism in the weakly dimorphic antler fly, *Protopiophila litigata* (Diptera: Piophilidae). *Biological Journal of the Linnean Society*: *In press*.

Wright, D.S., M. Pierotti, **H.D. Rundle** and J.S. McKinnon. 2015. Conspicuous female ornamentation and male mate preference of threespine sticklebacks (*Gasterosteus aculeatus*). *PLoS One* 10(3): e0120723. doi:10.1371/journal.pone.0120723.

Bonduriansky, R., M.A. Mallet, D. Arbuthnott, V. Pawlowsky-Glahn, J.J. Egocuze and **H.D. Rundle**. 2015. Differential effects of genetic vs. environmental quality in *Drosophila melanogaster* suggest multiple forms of condition dependence. *Ecology Letters* 18: 317-326. doi: 10.1111/ele.12412.

- Stinziano, J.R., R.J. Sové, **H.D. Rundle** and B.J. Sinclair. 2015. Rapid desiccation hardening changes the cuticular hydrocarbon profile of *Drosophila melanogaster*. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* 180: 38-42. doi: 10.1016/j.cbpa.2014.11.004.
- White, A.J. and **H.D. Rundle**. 2014. Territory defense as a condition-dependent component of male sexual fitness in *Drosophila serrata*. *Evolution* 69: 407-418. doi:10.1111/evo.12580
- Gershman, S., E. Toumishey and **H.D. Rundle**. 2014. Time flies: Time of day and social environment affect cuticular hydrocarbon attractiveness in *Drosophila serrata*. *Proceedings of the Royal Society of London B* 281: 20140821. doi: 10.1098/rspb.2014.0821
- Gosden, T.P., **H.D. Rundle** and S.F. Chenoweth. 2014. Testing the correlated response hypothesis for the evolution and maintenance of male mating preferences in *Drosophila serrata*. *Journal of Evolutionary Biology* 27: 2106-2112. doi: 10.1111/jeb.12461
- Ingelby, F.C. P. Innocenti, **H.D. Rundle** and E.H. Morrow. 2014. Between-sex genetic covariance constrains the evolution of sexual dimorphism in *Drosophila melanogaster*. *Journal of Evolutionary Biology* 27: 1721-1732.
- Gershman, S., M. Delcourt and **H.D. Rundle**. 2014. Sexual selection on *Drosophila serrata* male pheromones does not vary with female age or mating status. *Journal of Evolutionary Biology* 27: 1279-1286.
- Arbuthnott, D, A.F. Agrawal and **H.D. Rundle**. 2014. Remating and sperm competition in replicate populations of *Drosophila melanogaster* adapted to alternative environments. *PLoS ONE* 9(2): e9207.
- Dyer, K.A., B.E. White, J.L. Sztepanacz, E.R. Bewick and **H.D. Rundle**. 2014. Dissecting reinforcement in the wild: Reproductive character displacement, and the contribution to mate choice, of epicuticular compounds in *Drosophila subquinaria* and *Drosophila recens*. *Evolution* 68: 1163-1175.
- Arbuthnott, D. and **H.D. Rundle**. 2014. Misalignment of natural and sexual selection among divergently adapted *Drosophila melanogaster* populations. *Animal Behaviour* 87: 45-51.
- Punzalan, D., M. Delcourt and **H.D. Rundle**. 2014. Comparing the intersex genetic correlation for fitness across novel environments in the fruit fly, *Drosophila serrata*. *Heredity* 112: 143-148.
- Arbuthnott, D., E.M. Dutton, A. F. Agrawal and **H.D. Rundle**. 2014. The ecology of sexual conflict: Parallel evolution of male harm and female defense in experimental *Drosophila melanogaster* populations. *Ecology Letters* 17: 221-228.
- Wong, A. and **H.D. Rundle**. 2013. Selection on the *Drosophila* seminal fluid protein Acp62F. *Ecology and Evolution* 3: 1942-1950.

- Curtis, S., J.L. Sztepanacz, B.E. White, K.A. Dyer, **H.D. Rundle** and P. Mayer. 2013. Epicuticular compounds of *Drosophila subquinaria* and *D. recens*: Identification, quantification, and their role in female mate choice. *Journal of Chemical Ecology*: 39: 579–590.
- Schoustra, S.E., D. Punzala, R. Dali, **H.D. Rundle** and R. Kassen. 2012. Multivariate phenotypic divergence due to the fixation of beneficial mutations in experimentally evolved lineages of a filamentous fungus. *PLoS ONE* 7(11): e50305.
- Sztepanacz, J. and **H.D. Rundle**. 2012. Reduced genetic variance among high fitness individuals: inferring stabilizing selection on male sexual displays in *Drosophila serrata*. *Evolution* 66: 3101–3110.
- Arbuthnott, D. and **H.D. Rundle**. 2012. Sexual selection is ineffectual or inhibits the purging of deleterious mutations in *Drosophila melanogaster*. *Evolution* 66: 2127–2137.
- Delcourt, M., M.W. Blows, J.D. Aguirre and **H.D. Rundle**. 2012. Evolutionary optimum for male sexual traits characterized using the multivariate Robertson–Price Identity. *Proceedings of the National Academy of Sciences (USA)* 109: 10414–10419.
- MacLellan, K., L. Kwan, M.C. Whitlock and **H.D. Rundle**. 2012. Dietary stress does not strengthen selection against single deleterious mutations in *Drosophila melanogaster*. *Heredity* 108: 203–201.
- Bedhomme, S., A.K. Chippindale, N.G. Prasad, M. Delcourt, J.K. Abbott, M.A. Mallet and **H.D. Rundle**. 2011. Male-limited evolution suggests no extant intralocus sexual conflict over the sexually dimorphic cuticular hydrocarbons of *Drosophila melanogaster*. *Journal of Genetics* 90: 1–10.
- Bertram, S., L.P. Fitzsimmons, E.M. Whattam, **H.D. Rundle** and R. Gorelick. 2011. Phenotypic covariance structure and its divergence for acoustic mate attraction signals among four cricket species. *Ecology and Evolution* 2: 181–195.
- Charette, M., C.-A. Darveau, S.F. Perry and **H.D. Rundle**. 2011. Evolutionary consequences of altered atmospheric oxygen in *Drosophila melanogaster*. *PLoS ONE* 10(6):e26876.
- Delcourt, M. and **H.D. Rundle**. 2011. Condition dependence of a multi-component sexual display trait in *Drosophila serrata*. *American Naturalist*: 177: 812–823.
- Rundle, H.D.** and S.F. Chenoweth. 2011. Stronger convex (stabilizing) selection on homologous sexual display traits in females than in males: a multi-population comparison in *Drosophila serrata*. *Evolution* 65: 893–899.
- Delcourt, M., M.W. Blows and **H.D. Rundle**. 2010. Quantitative genetics of female mate preferences in an ancestral and a novel environment. *Evolution* 64: 2758–2766
- Chenoweth, S.F., **H.D. Rundle** and M.W. Blows. 2010. Experimental evidence for the evolution of indirect genetic effects: changes in the interaction effect coefficient, ψ (ψ), due to sexual selection. *Evolution* 64: 1849–1856.

Schoustra, S.*, **H.D. Rundle***, R. Dali and R. Kassen. 2010. Fitness-associated sexual reproduction in a filamentous fungus. *Current Biology* 20: 1350-1355.

***co-first authors**

Chenoweth, S.F., **H.D. Rundle** and M.W. Blows. 2010. The contribution of selection and genetic constraints to phenotypic divergence. *American Naturalist* 175: 186-196.

Kwan, L. and **H.D. Rundle**. 2009. Adaptation to desiccation fails to generate pre- and postmating isolation in replicate *Drosophila melanogaster* laboratory populations. *Evolution* 64: 710-723.

MacLellan, K., M.C. Whitlock and **H.D. Rundle**. 2009. Sexual selection against deleterious mutations via variable male search success. *Biology Letters* 5: 795-797.

Rundle, H.D., S.F. Chenoweth and M.W. Blows. 2009. The diversification of mate preferences by natural and sexual selection. *Journal of Evolutionary Biology* 22: 1608-1615.

Hine, E., S.F. Chenoweth, **H.D. Rundle** and M.W. Blows. 2009. Characterising the evolution of the genetic variance using genetic covariance tensors. *Philosophical Transactions of the Royal Society B*: 364: 1567-1578.

Auld, H.L., D. Punzalan, J-G.J. Godin and **H.D. Rundle**. 2009. Do female fruit flies (*Drosophila serrata*) copy the mate choice of others? *Behavioural Processes* 82: 78-80.

Delcourt, M., M.W. Blows and **H.D. Rundle**. 2009. Sexually antagonistic genetic variance for fitness in an ancestral and a novel environment. *Proceedings of the Royal Society of London B* 276: 2009-2014.

Rundle, H.D., S.F. Chenoweth and M.W. Blows. 2008. Comparing complex fitness surfaces: Among-population variation in mutual sexual selection in *Drosophila serrata*. *American Naturalist* 171: 443-454.

Chenoweth, S.F., **H.D. Rundle** and M.W. Blows. 2008. Genetic constraints and the evolution of display trait sexual dimorphism by natural and sexual selection. *American Naturalist* 171: 22-34.

Rundle, H.D., A. Ödeen and A.Ø. Mooers. 2007. An Experimental test for indirect benefits in *Drosophila melanogaster*. *BMC Evolutionary Biology* 7: 36

Rundle, H.D., S.F. Chenoweth and M.W. Blows. 2006. The roles of natural and sexual selection during adaptation to a novel environment. *Evolution* 60: 2218-2225.

Rundle, H.D., S.F. Chenoweth, P. Doughty and M.W. Blows. 2005. Divergent selection and the evolution of signal traits and mating preferences. *PLoS Biology* 3(11): 1988-1995.

Petfield, D., S.F. Chenoweth, **H.D. Rundle** and M.W. Blows. 2005. Genetic variance in female condition predicts indirect genetic variance in male sexual display traits. *Proceedings of the National Academy of Sciences (USA)* 102: 6045-6050.

- Drake, A., E. Rashkovetsky, D. Wong, **H.D. Rundle** and A.Ø. Mooers. 2005. Variable assortative mating in replicate mating trials using *Drosophila melanogaster* populations derived from contrasting opposing slopes of 'Evolution Canyon', Israel. *Journal of Evolutionary Biology* 18: 1123-1129.
- Boughman, J.W., **H.D. Rundle** and D. Schluter. 2005. Parallel evolution of sexual isolation in sticklebacks. *Evolution* 59: 361-373.
- Rundle, H.D.** and P. Nosil. 2005. Ecological speciation. *Ecology Letters* 8: 336-352.
- Rundle, H.D.**, S.M. Vamosi and D. Schluter. 2003. Experimental test of predation's effect on divergent selection during character displacement in sticklebacks. *Proceedings of the National Academy of Sciences (USA)* 100: 14943-14948.
- Rundle, H.D.** 2003. Divergent environments and population bottlenecks fail to generate premating isolation in *Drosophila pseudoobscura*. *Evolution* 57: 2557-2565.
- McKinnon, J.S. and **H.D. Rundle**. 2002. Speciation in nature: the threespine stickleback model systems. *Trends in Ecology and Evolution* 17: 480-488.
- Rundle, H.D.** 2002. A test of ecologically dependent postmating isolation between sympatric sticklebacks. *Evolution* 56: 322-329.
- Rundle, H.D.** and M.C. Whitlock. 2001. A genetic interpretation of ecologically dependent isolation. *Evolution* 55: 198-201.
- Rundle, H.D.**, L. Nagel, J.W. Boughman and D. Schluter. 2000. Natural selection and parallel speciation in sympatric sticklebacks. *Science* 287: 306-308.
- Mooers, A.Ø., **H.D. Rundle** and M.C. Whitlock. 1999. The effects of selection and bottlenecks on male mating success in peripheral isolates. *American Naturalist* 153: 437-444.
- Rundle, H.D.**, A.Ø. Mooers and M.C. Whitlock. 1998. Single founder-flush events and the evolution of reproductive isolation. *Evolution* 52: 1850-1855.
- Rundle, H.D.** and D. Schluter. 1998. Reinforcement of stickleback mate preferences: sympatry breeds contempt. *Evolution* 52: 200-208.
- Rundle, H.D.** and D.A. Jackson. 1996. Spatial and temporal variation in littoral-zone fish communities: a new statistical approach. *Canadian Journal of Fisheries and Aquatic Science* 53: 2167-2176.
- Gagnon, R., **H. Rundle**, L. Johnston and V.K.M. Han. 1995. Alterations in fetal and placental deoxyribonucleic acid synthesis rates after chronic fetal placental embolization. *American Journal of Obstetrics and Gynecology* 172: 1451-1458.

Bocking, A.D., S.E. White, S. Kent, L. Fraher, V.K.M. Han, **H. Rundle** and S.B. Hooper. 1995. Effect of prolonged catecholamine infusion on heart rate, blood pressure, breathing and growth in fetal sheep. *Canadian Journal of Physiology and Pharmacology* 73: 1750-1758.

ii) Letters/Comments/Responses in Refereed Journals

Rundle, H.D., F. Breden, C. Griswold, A.Ø. Mooers, R.A. Vos and J. Whitton. 2001. Hybridization without Guilt: Gene Flow and the Biological Species Concept. *Journal of Evolutionary Biology* 14: 868-869.

Schluter, D., J.W. Boughman and **H.D. Rundle**. 2001. Parallel speciation with allopatry. *Trends in Ecology and Evolution* 16: 283-284.

Rundle, H.D., A.Ø. Mooers and M.C. Whitlock. 1999. Experimental tests of founder-flush: a reply to Templeton. *Evolution* 53: 1632-1633.

Rundle, H.D. and S. Vamosi. 1996. Selection may be strongest when resources are scarce: a comment on Wilson. *Evolutionary Ecology* 10: 559-563.

iii) Book Chapters

Chenoweth, S.F., J. Hunt and **H.D. Rundle**. Analysing and comparing the geometry of individual fitness surfaces. 2012. In: *The Adaptive Landscape in Evolutionary Biology* (eds. E.I. Svensson & R. Calsbeek) Oxford University Press, Oxford.

Rundle, H.D. and J.W. Boughman. 2010. Behavioral ecology and speciation. In: *Evolutionary Behavioral Ecology* (eds. D.F. Westneat & C.W. Fox) Oxford University Press, Oxford.

Nosil, P. and **H.D. Rundle**. 2009. Ecological Speciation. In: *The Princeton Guide to Ecology* (ed. S.A. Levin) Princeton University Press, Princeton, New Jersey.

Rundle, H.D. and D. Schluter. 2004. Natural selection and ecological speciation in sticklebacks. In: *Adaptive Speciation* (eds. Dieckmann, U., Doebeli, M., Metz, J.A.J. & Tautz, D.) Cambridge University Press, Cambridge, pp. 192-209.

iv) Publications Submitted to Refereed Journals

H.D. Rundle and K.A. Dyer. Reproductive character displacement of female mate preferences for male cuticular hydrocarbons in *Drosophila subquinaria*.

Pardy, J.A., **H.D. Rundle**, M.A. Bernards and A.J. Moehring. The genetic basis of pheromone differences between *Drosophila melanogaster* and *D. simulans*.

v) *Invited Research Presentation/Workshops*

- 2013 Speciation symposium, American Genetics Association, Cornell, NY
- 2011 Symposium on Experimental Evolution, Society for the Study of Evolution, Norman, OK
- 2009 Invited participant, “Darwin 2009 - 150 Years of Evolutionary Biology”, State University of New York at Stony Brook
- 2006 Invited symposium speaker, Canadian Society of Ecology & Evolution Annual Meeting, Toronto, Canada
- 2006 Workshop: “Causes of Ecological and Genetic Diversity”, The Erwin Schrödinger International Institute for Mathematical Physics, Vienna, Austria
- 2005 Featured speaker, Australasian Evolution Society Bi-Annual Meeting, Perth, WA
- 2002 Dobzhansky Prize speaker, Evolution meeting, Champaign-Urbana, IL
- 2002 “Young Investigator Symposium”, American Society of Naturalists, Banff, AL
- 2001 Invited speaker, “Reinforcement Symposium”, Evolution meeting, Knoxville, TN
- 1999 Invited speaker, “The Formation of Biodiversity through Adaptive Speciation”, Adaptive Dynamics Network - IIASA Workshop, Laxenburg, Austria

vi) *Conferences/Symposia Organized*

- Head of local organizing committee for the *First Joint Congress on Evolutionary Biology* (i.e. *Evolution 2012*), the joint annual meeting of the world's largest academic societies for the study of evolutionary biology: the Society for the Study of Evolution, the American Society of Naturalists, the Society of Systematic Biologists, the European Society of Evolutionary Biology, and the Canadian Society of Ecology and Evolution. A landmark event, *Evolution 2012* was the first time that these five societies met jointly and the meeting attracted ~2,300 attendees.
- Rundle, H. D. and M. W. Blows. 2005. *Condition dependence, genetic variance, and the evolution of mating preferences*. A symposium sponsored by the Society for the Study of Evolution. Annual Meeting of the Society for the Study of Evolution and the American Society of Naturalists. Fairbanks, AK.

vii) *Departmental Research Seminars*

- University of Georgia (2015), U. Toronto (2013), U. Rochester (2013), McGill (2011), Western University (2010), Université de Sherbrooke (2010), Université du Québec à Montréal (2009), University of Chicago (2008), University of Toronto at Mississauga (2008), University of Guelph (2007), Queen's University (2007), University of Wisconsin (2007), Carleton University (2006), University of California - Davis (2006), University of Toronto (2005 & 2003), University of Ottawa (2004), University of Queensland (2004), Queens University (2003), University of Washington (2003), Simon Fraser University (2002), University of British Columbia (2002), University College London (2001)

viii) *Academic Service*

- Chief Meeting Officer, Society for the Study of Evolution (2014-ongoing)

- Associate editor, Proceedings of the Royal Society of London B (2009-2012)
- Ontario Graduate Scholarship selection panel (2008-2012)
- Manuscripts (> 150) reviewed for: *American Naturalist*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Behaviour*, *Bioessays*, *Biological Journal of the Linnean Society*, *Biology Letters*, *BMC Evolutionary Biology*, *Cellular and Molecular Life Sciences*, *Current Biology*, *Ecology Letters*, *Ethology*, *Evolution*, *Genetics*, *Molecular Ecology*, *Nature*, *Oikos*, *PLoS Biology*, *Proceedings of the National Academy of Sciences (USA)*, *Proceedings of the Royal Society of London B*, *Science*, and *Trends in Ecology and Evolution*
- Reviews for funding agencies: CRC, NERC, NSERC, NSF

ix) In the Public Eye

- Hosted a “Café Scientifique (<http://www.cafescientifique.ca>) informal, public discussion on Flirting: In your genes or in your jeans? (June 2/2006)
- Live interview for CBC Radio One’s program Ottawa Morning (host: Lucy van Oldenbarneveld) on the topic of mate choice, courtship, and flirting (June 1/2006)
- Interview for CBC Radio’s popular science program Quirks & Quarks (host: Bob McDonald) on parallel speciation in threespine sticklebacks (Mar. 11/2000)

Supervision

Completed:

9 undergraduate honours + 1 co-supervised; 5 MSc + 1 co-supervised, 2 PhD, 3 PDF + 2 co-supervised

In progress:

1 undergraduate honours; 2 MSc + 2 co-supervised, 0 PhD, 0 PDF

i) Graduate students

- Amardeep Singh (MSc, co-supervised) Sexual selection against deleterious mutations under different mating environments. Sept. 2014 – ongoing
- HongLi Yun (MSc, co-supervised) Testing the effect of sexual selection, and the environment in which mating interactions occur, on adaptation to novel environments. Sept. 2014 – ongoing
- Julie Colpitts (MSc) Sexual conflict’s impact on genetic variance in female fitness. Sept. 2013 – ongoing
- Corey Godfrey (MSc) Sexual selection in laboratory and wild populations of antler flies (*Protopiophila litigata*). Sept. 2013 – ongoing
- Mathew Oudin (MSc) Condition-dependence and sexual dimorphism in the antler fly (*Protopiophila litigata*). Sept. 2012 – Sept. 2014
- Devin Arbuthnott (PhD) Sexual selection and adaptation. Sept. 2009 – Dec. 2013

- Alison White (MSc) Sexual selection and male aggression in *Drosophila serrata*. Jan. 2011 – Mar. 2013
- Jacqueline Sztepanacz (MSc) Genetic limits to sexual display trait evolution in *Drosophila serrata*. Sept. 2009 – Sept. 2011
- Matthieu Delcourt (PhD) Empirical tests of good-genes sexual selection, Jan. 2007 - Sept. 2011
- Marc Charette (Msc; co-supervised with S. Perry) Experimental adaptation to oxygen stress in *Drosophila melanogaster*. May 2008 - Dec. 2010
- Kelsie MacLellan (MSc) Sexual selection and novel mutations: empirical tests for good genes indirect benefits and variable search effort, Sept. 2007 - Oct. 2009
- Lucia Kwan (MSc) Adaptation to desiccation resistance fails to generate pre- and postmating isolation in *Drosophila melanogaster*. Sept. 2007 - July 2009

ii) *Postdoctoral fellows*

- Nicolas Rode (co-advised with R. Kassen), Nov. 2012 – Dec. 2014
 - Brian Mautz, Mar. 2012 – Apr. 2014
 - Susan Gershman, Aug. 2010 – Aug. 2012
 - David Punzalan, Oct. 2007 - Dec. 2009
 - Alex Wong (co-advised with R. Kassen), June 2008 -May 2010
-