

CURRICULUM VITAE

HOPI ELISABETH HOEKSTRA

16 Divinity Avenue Harvard University Cambridge, MA 02138

email: hoekstra@oeb.harvard.edu

EDUCATION:

- 2000 Ph.D. Zoology, University of Washington, Seattle
1995 B.A. Integrative Biology, University of California, Berkeley (Highest Honors)

PROFESSIONAL EXPERIENCE:

- 2014- **Institute Member**
The Broad Institute
- 2014-2019 **Harvard College Professor** (5-year Endowed Chair)
Faculty of Arts & Sciences, Harvard University
- 2013- **Investigator**
Howard Hughes Medical Institute
- 2013-2014 **Associate Member**
The Broad Institute
- 2010- **Alexander Agassiz Professor of Zoology**
Department of Organismic & Evolutionary Biology, Harvard University
Department of Molecular & Cellular Biology, Harvard University
- 2010-2011 **Honorary Senior Lecturer**
Department of Genetics, Evolution and Environment, University College London
- 2007-2010 **John L. Loeb Associate Professor of Natural Sciences**
Department of Organismic and Evolutionary Biology, Harvard University
- 2007- **Curator of Mammals**
Museum of Comparative Zoology, Harvard University
- 2003-2006 **Assistant Professor**
Division of Biological Sciences, University of California at San Diego
- 2000-2003 **Ruth L. Kirschstein NIH-NRSA Postdoctoral Fellow**
Department of Ecology and Evolutionary Biology, University of Arizona

HONORS:

- 2016 Elected Member, National Academy of Sciences
- 2015 Richard Lounsbery Award, National Academy of Sciences
- 2014 Spark Award, Women in Science at Harvard Radcliffe
- 2013 Commencement Speaker, Department of Integrative Biology, UC Berkeley
- 2012 Estela Medrano Award, Pan American Society for Pigment Cell Research
- 2011 Fannie Cox Prize for Excellence in Science Teaching
- 2008 Kavli Foundation Fellow, National Academy of Sciences - Alexander von Humboldt Stiftung
- 2006 Young Investigator Award, Arnold and Mabel Beckman Foundation
- 2006 Teaching Fellow in the Life Sciences, National Academy of Sciences
- 2003 Young Investigator Prize, American Society of Naturalists
- 1998 Ernst Mayr Award, Society of Systematic Biologists
- 1996 Richard C. Synder Award, University of Washington
- 1995-2000 Howard Hughes Medical Institute Predoctoral Fellowship
- 1995 National Science Foundation Predoctoral Fellowship (declined)
- 1995 University of Washington Recruitment Fellowship
- 1994 Departmental Citation, University of California, Berkeley
- 1994 Commencement Speaker, University of California, Berkeley
- 1994 Phi Beta Kappa Honor Society, University of California, Berkeley

NAMED LECTURES:

2017	John Bonner Lecture, Princeton University (Sept)
2017	Sewall Wright Lecture, University of Chicago (May)
2017	The Rhodes Lectureship, Emory University (April)
2017	Bartholomew B. Brandt Lecture, North Carolina State University (April)
2016	Sager Lecture, Woods Hole Marine Biological Laboratory
2016	Eminent Ecologist Lecturer, Michigan State University (1 week)
2016	Atwood Lecture, University of Toronto
2015	Eliana Hechter Memorial Lecture, Broad Institute
2015	Rosenblatt Lecture in Evolutionary Biology, Scripps Institute of Oceanography
2015	Carpenter-Cohn Lecturer in Comparative Biology, San Diego State University
2014	Helen Wendler Deane Lecture in Biological Sciences, Wellesley College
2014	Allan C. Wilson Memorial Lectures, University of California Berkeley
2014	Kristine Bonnevie Lecture, University of Oslo
2014	Peter and Rosemary Grant Lecture, University of Zurich
2014	Herman Beerman Lecture, Society for Investigative Dermatology
2014	Annual Distinguished Woman in Science Lecture, Barnard College
2013	George Williams Speaker, State University of New York at Stony Brook
2013	Herbert Morawetz Distinguished Science Lecture, Polytechnic Institute of NYU
2013	Huck Institute Distinguished Lecture, Penn State University
2013	A. Watson Armour III Lecture, Women in Science Symposium, Field Museum of Natural History
2012	J.W. Jenkinson Memorial Lectureship, University of Oxford, UK
2012	Distinguished Visiting Professor, University of Miami (2 weeks)
2012	Don Summers Memorial Lecture, University of Utah
2012	Fairfield Osbourn Memorial Lecture, Rockefeller University
2012	George A. Lubinsky Memorial Lecture, University of Manitoba
2011	Randall Women in Science Lecture and Visiting Scholar, University of Idaho
2008	College of Liberal Arts & Sciences F. Wendell Miller Lecturer, Iowa State University
2008	Brown and Williamson Distinguished Lecturer, University of Louisville
2007	Storer Endowed Lecturer, University of California at Davis
2007	Distinguished Lectureship, University of Toronto, Introductory Biology lecture
2006	Young Scientist Symposium Speaker, University of Michigan

ADVISORY BOARDS:

2015-pres	Scientific Advisory Board, Perlstein Lab PBC
2015-pres	Advisory Board, Quanta Magazine, Simons Foundation
2013-pres	Advisory Board, Cold Spring Harbor Laboratories, bioRxiv Project
2013	External Advisory Committee, Microbiology Initiative, The Gordon & Betty Moore Foundation
2013-pres	Advisory Board of Educators, America's Amazing Teen
2012-pres	Scientific Advisory Committee, Max Planck Institute for Chemical Ecology
2012-2014	External Advisory Committee for the Directorate of Biological Sciences, National Science Foundation
2010	Scientific Advisory Committee, Uppsala Centre for Evolution and Genomics
2007-2010	Science Advisory Board, National Evolutionary Synthesis Center (NESCent)

PROFESSIONAL SERVICE:

2017-2020	President-Elect, Society for the Study of Evolution
2017-2020	Director, Genetics Society of America Board of Directors
2016-	Associate Editor, <i>Proceedings of the National Academy of Sciences</i>
2016-2020	President-Elect, Phi Beta Kappa Society, Harvard University
2015, 2016	Arnold Beckman Postdoctoral Fellows Award Advisory Panel
2014	Committee of Visitors, Integrative and Organismal Systems, National Science Foundation

2014	Leadership Team, Broad Institute, Broad Next 10 Initiative
2013, 2015	Selection Committee, E.W.R. Steacie Fellowship, NSERC, Canada
2013	External Reviewer, Department of Integrative Biology, University of California, Berkeley
2012-pres	Senior Editor, Evolution section, <i>PLoS Genetics</i>
2011	Vice President, American Society of Naturalists
2009-2015	Member, Faculty of 1000
2009-2013	Elected Council Member, European Society for Evolutionary Biology
2009-2012	Elected Council Member, Society for the Study of Evolution
2008-2011	Elected Council Member, American Genetics Association
2008-2010	National Institutes of Health Grant Review Panel
2007-2010	Associate Editor, <i>Evolution</i>
2005	National Science Foundation Grant Review Panel

Selected Outreach Committees, Workshops and Panels

2017	Lecturer, Marine Biological Laboratories, Physiology Course, Woods Hole, MA (Aug)
2016	Lecturer, Marine Biological Laboratories, Physiology Course, Woods Hole, MA
2016	Instructor, Guarda Summer Workshop in Evolutionary Biology, Switzerland (1 week)
2015	Speaker, Knight Science Journalism Fellows Program, Massachusetts Institute of Technology
2015	Keynote speaker, National Association for Biology Teachers Meeting, Providence, RI
2015	Speaker, Howard Hughes Medical Institute "Food for Thought" Series, Chevy Chase, MD
2015	Speaker, Special Libraries Association (SLA) Meeting, Boston, MA
2014	Panelist, Scientista Event, Harvard University Faculty of Arts and Sciences
2014	Lecturer, Bar Harbor Short course on Medical and Experimental Mammalian Genetics
2014	Speaker, <i>PLoS Genetics</i> Editor's Meeting, San Francisco, CA
2014	Lecture, Harvard Museum of Natural History, Evolution Matters series (Public Lecture)
2013	Panelist, 'The Future of Knowledge,' Harvard University Faculty of Arts and Sciences
2013	Speaker, One-Day University, Providence, RI (Public lecture)
2013	Distinguished Lecture, Friends Central K-12 School, Philadelphia, PA (Public lecture)
2013	Lecture, Harvard Alumni Association
2013	Keynote Speaker, Biology Leadership Conference, Tucson, AZ
2012	Section Editor, <i>The Princeton Guide to Evolution</i> , Genetics and Genomics
2012	Lecturer, iBio Seminar (Instructional 3-part video available for download on the web)
2012	Speaker, Knight Science Writing Fellows, Massachusetts Institute of Technology
2012	Lecture, Opening Days Science Lecture, Harvard University Faculty of Arts and Sciences
2012	Speaker, One-Day University, New York, NY (Public lecture)
2011	Speaker, HHMI High School Biology Teacher Program in Neuroscience, Cambridge, MA
2011	Speaker, University of Iowa Natural History Museum's Director's Lecture (Public lecture)
2011	Keynote Speaker, Howard Hughes Medical Institute Summer Teachers' Workshop: "Biology in the Genomic Age," Amherst, MA
2011	Plenary Speaker, Massachusetts Association of Biology Teachers Meeting, Framingham, MA
2010	Speaker, University of Alabama Lecture on Life's Evolution (ALLELE) (Public lecture)
2010	Speaker, Harvard Club of New York City (Public lecture)
2010	Speaker, National Association of Biology Teachers Meeting, Minneapolis, MN
2010	Advisor, "Helmets: Horns and Antlers" Public Exhibit, Museum of Comparative Zoology
2010	Co-Organizer, "Population Genomics of Adaptive Alleles" Symposium, SMBE Meeting
2010	Guest Speaker for a pre-performance symposium, "From Orchids to Octopi, an Evolving Love Story" Production
2010	Co-Organizer, "Genetics of Color Adaptation" Workshop, Radcliffe Institute
2010	Guest, "Mysteries in Museums," Travel Channel television program
2009	Interview, Feature in Glimpse Magazine
2009	Guest, WRKO Radio Program on "Evidence for Evolution" with Avi Nelson
2009	Speaker, Family Program "Marvelous Mammals," Harvard Museum of Natural History
2009	Guest, Science Minutes, National Public Radio
2009	Participant, "Tools for 21 st Century Biology" Workshop, National Science Foundation

- 2010 Advisor, "Great Mammal Hall" Public Exhibit renovation, Museum of Comparative Zoology
 2009 Invited Speaker, National Symposium on the Advancement of Women in Science
 2009 Student-invited Speaker, Harvard Program for Research in Science and Engineering (PRISE)
 2009 Invited Panel Member, "Women in Science," Science Club for Girls
 2009 Mentor, Harvard Graduate Women in Science/Engineering, Student Mentoring Program
 2008 Speaker, "Nature's Palette," Harvard Museum of Natural History (Public Lecture)
 2008 Co-Organizer, "Emerging Model Systems," NESCent Working Group
 2008 Co-Advisor, "The Language of Color" Public Exhibit, Museum of Comparative Zoology
 2007 Invited Participant, "Linking Evolution to Genomics Using Phenotype Ontologies," NESCent
 2006 Invited Panel Member, "Career Trajectories," Howard Hughes Medical Institute
 2006 Speaker, Academic Connections Program for Under-represented Students in Biology
 2006 Invited Participant, "Evolutionary Meta-Analyses," NESCent Working Group
 2005 Invited Speaker, National Academy of Sciences, Vietnam Education Foundation Conference
 2005 Co-Organizer, "Adaptive Evolution" Symposium, American Society of Mammalogists
 2005 Invited Panel Member, "Undergraduate Mentoring," Evolution Meetings
 2005 Invited Panel Member, "Time Management," Howard Hughes Medical Institute
 2005 Co-Organizer, "Genomes Evolving" Symposium, University of California, San Diego
 2004 Invited Panel Member, "Balancing Family and Career," Howard Hughes Medical Institute

PUBLICATIONS:

1. Kingsley, E.P., K.M. Kozak, S.P. Pfeifer, D.-S. Yang and **H.E. Hoekstra**. *In press*. The ultimate and proximate mechanisms driving the evolution of long tails in forest deer mice. *Evolution* (preprint available online).
2. Mallarino, R.M., T.A. Linden, C.R. Linnen and **H.E. Hoekstra**. 2017. The role of isoforms in the evolution of cryptic coloration in *Peromyscus* mice. *Molecular Ecology* 26:245–258.
3. Hu, C.K. and **H.E. Hoekstra**. 2017. *Peromyscus* burrowing: A model system for behavioral evolution. *Seminars in Cell and Developmental Biology* 61:107-114.
4. Fisher, H.S., E. Jacobs-Palmer, J.M. Lassance and **H.E. Hoekstra**. 2016. The genetic basis and fitness consequences of sperm midpiece size in deer mice. *Nature Communications* 7:13652.
5. Mallarino, R., C. Henegar, M. Mirasierra, M.C. Manceau, C. Shradin, M. Vallejo, S. Beronja, G.S. Barsh and **H.E. Hoekstra**. 2016. The developmental mechanisms of stripe formation in rodents. *Nature* 539:518–523.
6. Baer, D.M., J.M. Lassance, **H.E. Hoekstra** and S.R. Datta. 2016. The evolving neural and genetic architecture of vertebrate olfaction. *Current Biology* 26:R1039-R1049.
7. Bedford, N.L. and **H.E. Hoekstra**. 2015. *Peromyscus* mice as a model for studying natural variation. *eLIFE* 4:e06813.
8. Greer, P.L., D.M. Bear, J.M. Lassance, M.L. Bloom, T. Tsukahara, S.L. Pashkovski, F.K. Masuda, A.C. Nowlan, R. Kirchner, **H.E. Hoekstra** and S.R. Datta. 2016. A family of non-GPCR chemosensors defines an alternative logic for mammalian olfaction. *Cell* 165(17):1734-1748.
9. Mallarino, R.M., **H.E. Hoekstra** and M. Manceau. 2016. Developmental genetics in emerging rodent models: case studies and perspectives. *Current Opinion in Genetics & Development* 39:182-186.

10. Corbett-Detig, R., E. Jacobs-Palmer, D.L Hartl and **H.E. Hoekstra**. 2015. Direct gamete sequencing reveals no evidence for segregation distortion in house mouse hybrids. *PLoS One* 10(6):e0131933.
11. Poh, Y.-P., V.S. Domingues, **H.E. Hoekstra** and J.D. Jensen. 2014. On the prospect of identifying adaptive loci in recently bottlenecked populations. *PLoS One* 9(11):e110579.
12. Fisher, H.S., L. Giomi, **H.E. Hoekstra*** and L. Mahadevan*. 2014. The dynamics of sperm cooperation in a competitive environment. *Proceedings of the Royal Society B* 281:20140296.
13. Kocher, S.D., C. Lai, W. Yang, H. Tan, S.V. Yi, X. Yang, **H.E. Hoekstra**, G. Zhang, N.E. Pierce and D.W. Yu. 2013. The draft genome of a socially polymorphic halictid bee, *Lasioglossum albipes*. *Genome Research* 14:142.
14. Kowalko, J.E., N. Rohner, S.B. Rompani, B.K. Peterson, T.A. Linden, M. Yoshizawa, E.H. Kay, J.N. Weber, **H.E. Hoekstra**, W.R. Jeffrey, R. Borowsky and C.J. Tabin. 2013. Loss of schooling behavior in cavefish through sight-dependent and sight-independent mechanisms. *Current Biology* 23:1874-1883.
15. Linnen, C.R., Y.-P. Poh, B.K. Peterson, R.D.H. Barrett, J.G Larson, J. Jensen, and **H.E. Hoekstra**. 2013. Adaptive evolution of multiple traits through multiple mutations at a single gene. *Science* 339:1312-1316.
16. Weber, J.N., B.K. Peterson and **H.E. Hoekstra**. 2013. Discrete genetic modules are responsible for the evolution of complex burrowing behaviour in deer mice. *Nature* 493:4202-405.
17. Losos, J.B., S.J. Arnold, G. Bejerano, E.D. Brodie III, D. Hibbett, **H.E. Hoekstra**, D.P. Mindell, A. Monteiro, C. Moritz, H.A. Orr, D.A. Petrov, S.S. Renner, R.E. Ricklefs, P.S. Soltis, and T.L. Turner. 2013. Evolutionary Biology for the 21st Century. *PLoS Biology* 11:e1001466.
18. Domingues, V.S., Y.-P. Poh, B.K. Peterson, P.S. Pennigs, J.D. Jensen and **H.E. Hoekstra**. 2012. Evidence of adaptation from ancestral variation in young populations of beach mice. *Evolution* 66: 3209-3223.
19. Kronforst, M.R., G.S. Barsh, A. Kopp, J. Mallet, A. Monterio, S.P. Mullen, M. Protas, E.B. Rosenblum, C.J. Schneider and **H.E. Hoekstra**. 2012. Unraveling the thread of nature's tapestry: the genetics of diversity and convergence in animal pigmentation. *Pigment Cell and Melanoma Research* 25(4):411-433.
20. Peterson, B.K., J.N. Weber, E.H. Kay, H.S. Fisher and **H.E. Hoekstra**. 2012. Double Digest RADseq: an inexpensive method for *de novo* SNP discovery and genotyping in model and non-model species. *PLoS One* 7(5):e37135.
21. Goncalves, G., **H.E. Hoekstra** and T. R. O. de Freitas. 2012. Striking coat colour variation in tuco-tucos (Rodentia: Ctenomyidae): a role for the melanocortin-1 receptor? *Biological Journal of the Linnean Society* 105(3):665-680.
22. Barrett, R.D.H. and **H.E. Hoekstra**. 2011. Molecular Spandrels: experimental tests of adaptation. *Nature Reviews Genetics* 12:767-780.
23. Manceau, M., V.S. Domingues, R. Mallarino and **H.E. Hoekstra**. 2011. The developmental role of Agouti in color pattern evolution. *Science* 331:1062-1065.
24. Robinson, G.E., J.A. Banks, D.K. Padilla, W.W. Burggren, C.S. Cohen, C.F. Delwiche, V. Funk, **H.E. Hoekstra**, E.D. Jarvis, L. Johnson, M.Q. Martindale, C. Martinez Del Rio, M. Medina, D.E.

- Salt, S. Sinha, C. Specht, K. Strange, J.E. Strassman, B.J. Swalla and L. Tomanek. 2010. Empowering 21st century biology. *BioScience* 60:923-930.
25. Manceau, M., V. Domingues, C.R. Linnen, E.B. Rosenblum and **H.E. Hoekstra**. 2010. Convergence in pigmentation at multiple levels: mutations, genes and function. *Philosophical Transactions of the Royal Society* 365:2439-2450.
26. Vignieri, S.N., J. Larson and **H.E. Hoekstra**. 2010. The selective advantage of cryptic coloration in mice. *Evolution* 64:2153-2158.
27. Turner, L.M., A. Young, H. Römpler, T. Schöneberg, S. Phelps and **H.E. Hoekstra**. 2010. Monogamy evolves through multiple mechanisms: evidence from V1aR in deer mice. *Molecular Biology and Evolution* 27:1269-1278.
28. **Hoekstra, H.E.** 2010. Evolutionary Biology: the next 150 years. In *Evolution Since Darwin: The First 150 Years*. (Eds. M.A. Bell, D.A. Futuyma, W.F. Eanes and J.S. Levinton). Sinauer Press, Sunderland, MA.
29. Hull, J.M., D.P. Mindell, S.L. Talbot, E.H. Kay, **H.E. Hoekstra** and H.B. Ernest. 2010. Population structure and plumage polymorphism: the intraspecific evolutionary relationships of a polymorphic raptor. *BMC Evolutionary Biology* 10:224.
30. **Hoekstra, H.E.** 2010. In search of the elusive behavior gene. In *In Search of the Causes of Evolution: From Field Observations to Mechanisms*. (Eds. P.R. Grant and B.R. Grant). Princeton University Press.
31. Chuong, E.B., W. Tong and **H.E. Hoekstra**. 2010. Maternal-fetal conflict: rapidly evolving proteins in the rodent placenta. *Molecular Biology and Evolution* 27:1221-1225.
32. Hubbard, J.K., J.A.C. Uy, M.E. Hauber, **H.E. Hoekstra**, and R.J. Safran. 2010. Vertebrate pigmentation: from underlying genes to adaptive function. *Trends in Genetics* 26:231-239.
33. Fisher, H.S. and **H.E. Hoekstra**. 2010. Competition drives cooperation among closely-related sperm of deer mice. *Nature* 463:801-803.
34. Rosenblum, E.B., H. Römpler, T. Schöneberg and **H.E. Hoekstra**. 2010. White lizards on white sands: the molecular and functional basis of phenotypic convergence. *Proceedings of the National Academy of Sciences* 107:2113-2117.
35. **Hoekstra, H.E.** 2010. From Darwin to DNA: The genetic basis of color adaptation. In *In the Light of Evolution: Essays from the Laboratory and the Field*. (Ed. J.B. Losos). Roberts & Co. Publishers.
36. Weber, J.N. *et al.* 2010. Five hundred microsatellite markers for *Peromyscus*. *Conservation Genetics* 11:1243-1246.
37. Linnen, C.R. and **H.E. Hoekstra**. 2009. Measuring natural selection on genotypes and phenotypes. *Cold Spring Harbor Symposia on Quantitative Biology* 74:155-168.
38. Aminetzach, Y.T, J.R. Srouji, C.Y. Kong and **H.E. Hoekstra**. 2009. Convergent evolution of novel protein function in shrew and lizard venom. *Current Biology* 19:1925-1931.
39. Mullen, L.M., S.N. Vignieri, J.A. Gore and **H.E. Hoekstra**. 2009. Adaptive basis of geographic variation: genetic, phenotypic and environmental differences among beach mouse populations. *Proceedings of the Royal Society B* 276:3809-3818.

40. Linnen, C.R., E.P. Kingsley, J.D. Jensen and **H.E. Hoekstra**. 2009. On the origin and spread of an adaptive allele in deer mice. *Science* 325:1095-1098.
41. Kingsley, E.P., M. Manceau, C.D. Wiley and **H.E. Hoekstra**. 2009. Melanism in *Peromyscus* is caused by independent mutations in *Agouti*. *PLoS One* 4:e6435.
42. Weber, J.N. and **H.E. Hoekstra**. 2009. The evolution of burrowing behavior in deer mice. *Animal Behavior* 77:603-609.
43. Steiner, C.C., H. Römpler, L.M. Boettger, T. Schöneberg and **H.E. Hoekstra**. 2009. The genetic basis of phenotypic convergence in beach mice: similar pigment patterns but different genes. *Molecular Biology and Evolution* 26:35-45.
44. Turner, L.M., E.B. Chuong and **H.E. Hoekstra**. 2008. Comparative analysis of testis protein evolution in rodents. *Genetics* 179:2075-2089.
45. Mullen, L.M. and **H.E. Hoekstra**. 2008. Natural selection along an environmental gradient: a classic cline in mouse pigmentation. *Evolution* 62:1555-1570.
46. Turner, L.M. and **H.E. Hoekstra**. 2008. Causes and consequences of the evolution of reproductive proteins. *International Journal of Developmental Biology* 52:769-780.
47. Abzhanov, A., C. Extavour, A. Groover, S. Hodges, **H.E. Hoekstra**, E.M. Kramer, A. Monteiro. 2008. Are we there yet? Tracking the development of new model systems. *Trends in Genetics* 24:353-360.
48. Turner, L.M. and **H.E. Hoekstra**. 2008. Reproductive protein evolution within and between species: maintenance of divergent ZP3 alleles in *Peromyscus*. *Molecular Ecology* 17:2616-2628.
49. Steiner, C.C., J.N. Weber and **H.E. Hoekstra**. 2007. Adaptive variation in beach mice produced by two interacting pigmentation genes. *PLoS Biology* 5:1880-1889.
50. **Hoekstra, H.E.** and J.A. Coyne. 2007. The locus of evolution: evo devo and the genetics of adaptation. *Evolution* 61:995-1016.
51. Stinchcombe, J.R. and **H.E. Hoekstra**. 2007. Combining population genomics and quantitative genetics: finding the genes underlying ecologically important traits. *Heredity* 100:158-170.
52. Storz, J.F. and **H.E. Hoekstra**. 2007. The study of adaptation and speciation in the genomic era. *Journal of Mammalogy* 88:1-4.
53. **Hoekstra, H.E.** 2006. Genetics, development and evolution of adaptive pigmentation in vertebrates. *Heredity* 97:22-234.
54. Turner, L.M. and **H.E. Hoekstra**. 2006. Adaptive evolution of fertilization proteins within a genus: variation in ZP2 and ZP3 in deer mice (genus *Peromyscus*). *Molecular Biology and Evolution* 23:1656-1669.
55. **Hoekstra, H.E.**, R.J. Hirschmann, R.A. Bunday, P.A. Insel and J.P. Crossland. 2006. A single amino acid mutation contributes to adaptive beach mouse color pattern. *Science* 313:101-104.
56. Mullen, L.M., R.J. Hirschman, K.L. Prince, T.C. Glenn, M.J. Dewey and **H.E. Hoekstra**. 2006. Sixty polymorphic microsatellite markers for the oldfield mouse developed in *Peromyscus polionotus* and

- P. maniculatus*. *Molecular Ecology Notes* 6:36-40.
57. Payseur, B.A. and **H.E. Hoekstra**. 2005. Signature of reproductive isolation in patterns of single nucleotide polymorphism across inbred strains of mice. *Genetics* 171:1905-1916.
 58. **Hoekstra, H.E.**, J.G. Krenz and M.W. Nachman. 2005. Local adaptation in the rock pocket mouse (*Chaetodipus intermedius*): natural selection and phylogenetic history of populations. *Heredity* 94:217-228.
 59. **Hoekstra, H.E.** and M.W. Nachman. 2005. Coat-color variation in rock pocket mice (*Chaetodipus intermedius*): from phenotype to genotype. In *Mammalian Diversification: From Chromosomes to Phylogeography*, University of California Press, Zoology 133:79-99.
 60. Rosenblum, E.B., **H.E. Hoekstra** and M.W. Nachman. 2004. Adaptive reptile color variation and the evolution of the MC1R gene. *Evolution* 58:1794-1808.
 61. **Hoekstra, H.E.**, K.E. Drumm and M.W. Nachman. 2004. Ecological genetics of adaptive color polymorphism in pocket mice: geographic variation in neutral and selected genes. *Evolution* 58:1329-1341.
 62. Nachman, M.W., **H.E. Hoekstra** and S. L. D'Agostino. 2003. The genetic basis of adaptive melanism in pocket mice. *Proceedings of the National Academy of Science* 100:5268-5273.
 63. **Hoekstra, H.E.** and M.W. Nachman. 2003. Different genes underlie adaptive melanism in different populations of pocket mice. *Molecular Ecology* 12:1185-1194.
 64. **Hoekstra, H. E.** 2003. Unequal transmission of mitochondrial haplotypes in natural populations of field mice with XY females (genus *Akodon*). *The American Naturalist* 161:29-39.
 65. **Hoekstra, H.E.** and J.M. Hoekstra. 2001. An unusual sex-determination system in South American field mice (genus *Akodon*): the role of mutation, selection and meiotic drive in maintaining XY females. *Evolution* 55:190-197.
 66. **Hoekstra, H.E.**, J.M. Hoekstra, D. Berrigan, S.N. Vignieri, C.E. Hill, A. Hoang, P. Beerli and J.G. Kingsolver. 2001. Strength and tempo of directional selection in the wild. *Proceedings of the National Academy of Science* 98:9157-9160.
 67. Kingsolver, J.G., **H.E. Hoekstra**, J.M. Hoekstra, D. Berrigan, S.N. Vignieri, C.E. Hill, A. Hoang, P. Gibert and P. Beerli. 2001. The strength of phenotypic selection in natural populations. *The American Naturalist* 157:245-261.
 68. Lingenfelter, P.A., M.L. Delbridge, S. Thomas, **H.E. Hoekstra**, M. Mitchell, J.A.M. Graves and C.M. Disteche. 2001. Expression and conservation of processed copies of the RBMX gene. *Mammalian Genome* 12:538-545.
 69. **Hoekstra, H.E.** and S.V. Edwards. 2000. Multiple origins of XY mice (genus *Akodon*): phylogenetic and chromosomal evidence. *Proceedings of the Royal Society* 267:1825-1831.
 70. Hess, C.M., J. Gasper, **H.E. Hoekstra**, C.E. Hill and S.V. Edwards. 2000. MHC class II pseudogene and genomic signature of a 32-kb cosmid in the house finch (*Carpodacus mexicanus*). *Genome Research* 10:613-623.

71. **Hoekstra, H.E.** and W.F. Fagan. 1998. Body size, dispersal ability and compositional disharmony: the carnivore dominated fauna of the Kuril Islands. *Diversity and Distributions* 4:135-149.
72. Gunther, K.E. and **H.E. Hoekstra**. 1997. Bear-human interactions in Yellowstone National Park, 1972-1994. *Ursus* 10:377-384.

MANUSCRIPTS IN REVISION/REVIEW:

- Bendesky, A., Y.M. Kwon, J.M. Lassance, C.L. Lewarch, S. Yao, B.K. Peterson, M.X. He, C. Dulac and **H.E. Hoekstra**. *In revision*. The genetic basis of parental care evolution in *Peromyscus* mice.
- Sauvageau, M., E. Jacobs-Palmer, S. Liapis, A. Groff, N. Rubenstein, C. Gerhardinger, J. Lewandowski, E. Lander, J. Engreitz, C. Dulac, **H.E. Hoekstra** and J.L. Rinn. *In review*. The Tug1 lncRNA locus is essential for male fertility and harbors a *cis* repressive element.

INVITED COMMENTARIES AND POPULAR WRITINGS:

- Mallarino, R.M., **H.E. Hoekstra** and M. Manceau. 2016. Developmental genetics in emerging rodent models: case studies and perspectives. *Current Opinion in Genetics & Development* 39:182-186.
- Mallet J. and **H.E. Hoekstra**. 2016. Ecological genetics: A key gene for mimicry and melanism. *Current Biology* 26:R802-804.
- Wray, G.A., D.A. Futuyma, R.E. Lenski, T.F.C. MacKay, D. Schluter, J.E. Strassman and **H.E. Hoekstra**. 2014. Does evolutionary biology need a rethink? Counterpoint: No all is well. *Nature* 514:161-164.
- **Hoekstra, H.E.** 2014. The secret of a natural blond. *Nature Genetics* 46:660-661.
- **Hoekstra, H.E.** and C.L. Peichel. 2013. Genetics and Genomics. In *The Princeton Guide to Evolution*. Princeton Press, Princeton, NJ.
- **Hoekstra, H.E.** 2012. Genomics: Stickleback is the catch of the day. *Nature* 484:46-47.
- Metz, H.C., M. Manceau and **H.E. Hoekstra**. 2011. Turing patterns: how the fish got its spots. *Pigment Cell and Melanoma Research* 24(1):12-14.
- **Hoekstra, H.E.** 2009. "From Darwin to DNA: Mice, molecules and the struggle for existence," essay for NSF website feature on *Evolution of Evolution*, Nov. 24, 2009.
- **Hoekstra, H.E.** 2009. "The Evolution Ringmaster" review of *The Greatest Show on Earth: the Evidence for Evolution* by Richard Dawkins. *Cell* 139:454-455.
- Berry, A.J. and **H.E. Hoekstra**. 2009. (Re)Reading The Origin. *Current Biology* 19(3):R9.
- Kay, E.H. and **H.E. Hoekstra**. 2008. Rodents. *Current Biology* 18(10):R406-410.
- Coyne, J.A. and **H. E. Hoekstra**. 2007. Evolution of protein expression: New genes for a new diet. *Current Biology* 17(23):R1014-1016.
- Coyne, J.A. and **H. E. Hoekstra**. 2007. The greatest dying. *The New Republic*, Sept. 24, 2007, p. 7-10.

- **Hoekstra, H.E.** and T. Price. 2004. Parallel evolution is in the genes. *Science* 303:1779-1780.

SELECTED RESEARCH FEATURES/POPULAR PRESS:

- “Deciphering the genes that give mammals their stripes and patterns” by E. Callaway, *Nature News*, November 2016.
- “Key to zebra stripes may be found in African mouse” by E. Pennisi, *Science*, November 2016.
- “DNA clues to how chipmunk earned its stripes” by H. Briggs, *BBC News*, November 2016.
- “How the mouse got its stripes” by E. Yong, *The Atlantic*, November 2016.
- “Promiscuous mice have a gene for faster sperm” by E. Pennisi, *Science*, October 2016.
- “These mice excel at assembling the ideal sperm swim teams” by E. Yong, *National Geographic*, July 2014.
- “Mouse sperm parties make for straight swimmers” by N. Akpan, *ScienceNews*, July 2014.
- “Genetics of Burrowing” animation featured in *Scientific American*, chosen “Video of the Week,” May 2014.
- “Serious Science” 4-part video interview, April 2014.
- “Carry the One Radio” interview by UCSF, May 2013 (podcast).
- “Profiles in Science: Digging deep in DNA” by J. Gorman, *New York Times*, January 2013 (and podcast).
- “A Life in Science: Hopi Hoekstra” by T. Lin & T. Cenicola, *New York Times*, January 2013 (video interview).
- “Hide and seek in deer mice” by J. Gorman, *New York Times*, January 2013.
- “Behavior genes unearthed” by E. Callaway, *Nature*, January 2013.
- “Building a better mouse burrow takes few genes” by E. Pennisi, *Science*, January 2013.
- “The genes that built a home” by E. Yong, *National Geographic*, January 2013.
- “Study discovers DNA tells mice how to construct their homes” by J. Gorman, *New York Times*, January 2013.
- “A colorful way to watch evolution in action” by H. Rosner, *New York Times*, August 2011.
- “How the leopard really got his spots: Scientists identify gene that determines patterns of colour on mice” by F. Macrae, *UK Daily Mail*, February 2011.
- “Camouflage helped mice survive on beaches” by J. Welsh, *MSNBC*, February 2011.
- Q & A interview, *Current Biology*, April 2010.
- “Sperm recognize ‘brothers,’ team up for speed” by C. Dell’Amore, *National Geographic News*, April 2010.
- “Cooperation: the secret society of sperm” by K. Foster and T. Pizzari, *Current Biology*, April 2010.
- “Convergent evolution: pick your poison carefully” by E.D. Brodie III, *Current Biology*, February 2010.
- “More than one way to blanch a lizard” by K. Hughes, *PNAS*, February 2010.
- “Cooperative Sperm” by S. Bard, *AAAS Science Update*, February 2010.
- “Sperm of a feather flock together” by J. Palca, *National Public Radio*, January 2010.
- “Sperm hook up to outswim rivals” by E. Pennisi, *ScienceNow*, January 2010.
- “Brother sperm train together” by J. Whitfield, *Nature News*, January 2010.
- “Lizard’s camouflage reveal evolution’s action” by R. Lamb, *MSNBC*, January 2010.
- “White lizards evolve in New Mexico Dunes” by H. Fountain, *New York Times*, January 2010.
- “From Darwin to DNA” interview for NSF website *Evolution of Evolution*, November 2009.
- “Venom evolution” *CBC Radio* interview, November 2009.
- “Molecular Tweaks” *BBC News*, October 2009.
- “How beach life favors blond mice” by E. Pennisi. *Science*, September 2009.
- “Melding mammals and molecules to track evolution” by E. Pennisi. *Science*, September 2009.
- “Mouse set to be evolution icon” by M. Walker. *BBC Science News*, August 2009.
- “Newly evolved fur coat a quick hit in Nebraska” by M. Marshall. *The New Scientist*, August 2009.
- “Deadly evolution” by D. Brown. *The Washington Post*, June 2009.
- “Modern Darwins” by M. Ridley. *National Geographic*, February 2009.
- “Evolution in black and white” by S. Carroll. *Smithsonian Magazine*, February 2009.
- “Deciphering the genetics of evolution” by E. Pennisi. *Science*, August 2008.
- “An evolution saga: beach mice mutate and survive” by V. Gewin. *HHMI Research News*, July 2006.
- “Gene reveals mammoth coat colour” by R. Morelle. *BBC Science News*, July 2006.
- “Learning to lead” by C. Aschwanden. *Cell*, May 2006.
- “Color genes help mice and lizards” by E. Pennisi. *Science*, July 2005.
- “Learning to mentor” by V. Gewin. *Nature*, July 2005.
- “The evolving peppered moth gains a furry counterpart” by C. Yoon. *New York Times*, July 2003.
- “Strange Y chromosome makes supermom mice” by S. Miligus. *Science News*, September 2000.

“Treasure Islands” by K. Sauter. *Popular Science*, July 1996.

INVITED SYMPOSIUM PRESENTATIONS:

- 2017
- Ascona Neuronal Circuits Meeting, Ascona, Switzerland (Oct)
 - International Pigment Cell Conference, Denver, CO, Keynote Speaker (Aug)
 - Developmental Biology Gordon Research Conference, Mount Holyoke, MA (June)
 - EMBO | EMBL Symposium on Neural Circuits, Heidelberg, Germany (May)
 - Yale Genetics Graduate Student Symposium, Keynote Speaker (May)
 - International Neuroscience Winter Conference, Special Plenary Lecture (March)
 - Social Evolution and Genome Complexity Workshop, New York City (Feb)
- 2016
- Champalimaud Neuroscience Symposium, Lisbon, Portugal
 - International Society of Behavioral Ecology, Exeter, UK, Keynote Speaker
 - The Allied Genetics Conference: Mouse Genetics, Orlando, FL, Plenary Speaker
 - International Conference on Quantitative Genetics, Madison, WI, Plenary Speaker
 - LabLinks Symposium on Gene Circuits, Cambridge, MA, Keynote Speaker
 - Keystone Meeting: Molecular and Cellular Basis of Growth, Breckenridge, CO, Keynote Speaker
- 2015
- EMBO Francois Jacob Symposium, Institut Pasteur, Paris, France
 - European Society for Evolutionary Biology, Lausanne, Switzerland, Plenary Speaker
 - Gordon Conference: Epithelial Differentiation and Keratinization
 - Society for Developmental Biology, President’s Symposium, Plenary Speaker
- 2014
- “Neural Networks in the Arctic,” Spitsbergen, Norway, Opening Lecture
 - Annual Symposium on “Cognition”, Cold Spring Harbor Labs, NY
 - “Systems Genetics and Evolution” Meeting, Ascona, Switzerland
 - Computational and Systems Neuroscience (COSYNE) Meeting, Salt Lake City, UT
 - “Niche Construction” American Society of Naturalists Meeting, Asilomar, CA
 - Gordon Conference: Genes and Behavior, Galveston, TX, Keynote Speaker
- 2013
- Darwinian Cluster Retreat, University of Chicago, Keynote Address
 - Biology of the Genome, Cold Spring Harbor Labs (co-organized Evolutionary Genomics section)
- 2012
- Kavli Prize Symposium, Trondheim, Norway
 - PanAmerican Society for Pigment Cell Research Conference, Park City, Utah
 - Society of Molecular Biology and Evolution Meeting, Dublin, Ireland, Plenary Speaker
 - Pop Group 45, University of Nottingham, UK, Plenary Speaker
- 2011
- “Trends and Controversies in Evolutionary Developmental Biology” Max Planck Institute for Developmental Biology, Bavaria, Germany
 - Third Biological Evolution Workshop, Porto Alegre, Brazil
 - “Parallel Evolution” European Society for Evolutionary Biology, Tuebingen, Germany
 - Animal Behavior Society Meetings, Bloomington, IN, Plenary Speaker
 - Gordon Conference: Ecological and Evolutionary Genomics, Univ. New England, ME
 - “Genetics of Adaptation” Society for the Study of Evolution Symposium, Norman, OK
 - “Genetics of Evolution and Species Isolation” Canadian Society of Evolution & Ecology, Banff
 - Keystone Meeting: Evolutionary Developmental Biology, Tahoe, CA
 - Cambridge University Evolutionary Genetics Workshop, Cambridge UK
- 2010
- Ecological Genomics Symposium, Kansas City, KS, Plenary Speaker
 - “Molecular Insights into Classic Examples of Evolution” Symposium, National Association of Biology Teachers Professional Development Conference, Minneapolis, MN
 - “Evolutionary Genetics: from genes to ecosystems” Ph.D. Workshop, Ploen, Germany
 - “Evolutionary and Ecological Genomics of Adaptation” Symposium, Fribourg, Switzerland
 - “Genomics of speciation, species differences and adaptations” Symposium of the Leopoldina, the German National Academy of Sciences, Konstanz, Germany
 - Sixth International Melanocortin Meeting, Utrecht, Holland
 - Gordon Conference: Genes and Behavior, Ventura, CA
- 2009
- “Genetics and the Causes of Evolution: 150 years of Progress since Darwin” Symposium, The Royal Society, London, UK

- “Darwin 2009: 150 years of evolutionary biology” Symposium, SUNY Stony Brook, NY
- “The Darwin Conference” Symposium, University of Chicago
- International Mammal Congress, Mendoza Argentina, Closing Plenary Lecture
- Gordon Conference: Developmental Biology, Proctor Academy, NH
- “Darwinian Thinking: 150 Years after The Origin” Symposium, Society for the Study of Evolution Meeting, Moscow, ID
- “Origin of Species – 150 year later” Symposium, Wenner-Gren Foundation, Kristineberg, Sweden
- Annual Interdisciplinary Symposium, Miller Institute, University of California, Berkeley
- “Types of Molecular Evolution” Symposium, Society of Molecular Biology and Evolution Meeting, Iowa City, IA
- Annual Symposium on “Evolution: The Molecular Landscape”, Cold Spring Harbor Laboratory, NY
- “Evolving/Technology Genome” Symposium, NYU Genome Center, New York University, NY
- “Genomics of Speciation and Species Differences” Symposium, Wissenschaftskolleg Institute for Advanced Study, Berlin, Germany
- “Evolutionary Biology” Symposium, Max Planck Society, Berlin, Germany
- Volkswagen Foundation Symposium, Westfälische Wilhelms Universität, Muenster, Keynote Lecture
- Harvard University, Darwin Day Symposium, Undergraduate student invited speaker
- 2008 • “Evolution of Genomes and the Origin of Species” Symposium, Mathematical Biosciences Institute, OH
- “Peter and Rosemary Grant Festschrift” Symposium, Princeton University, NJ
- Lund University, Sweden Research School in Genomic Ecology, Inaugural Lecture
- “German-American Frontiers of Science Symposium” Alexander von Humboldt Foundation and the National Academy of Sciences, Postdam, Germany
- “Genetics and Genomics of Behavior” Symposium, American Genetics Association, Raleigh, NC
- “Genomics of Speciation” University of Washington Genome Sciences Training Program
- “From Patterns to Processes: Bridging Micro- and Macroevolutionary Concepts through Evo-Devo” Symposium, University of Oregon, OR
- 2007 • “Speciation and Adaptation: Ecological Genomics of Model Organisms and Beyond” Symposium, Fifth Okazaki Biology Conference, Japan
- Gordon Conference: Quantitative Genetic and Genomics, Ventura, CA
- “Convergence of Genomics and the Land Grant Mission” Symposium, Purdue University, IN
- “Merging Physiological Ecology and Functional Genomics.” Ecological Society of America Meeting, San Jose, CA
- “Gene Mapping in Natural Populations” Symposium, European Society for Evolutionary Biology, Uppsala, Sweden
- “Genetics of Pigmentation” Symposium, European Society for Evolutionary Biology, Uppsala, Sweden
- “Genomics of Speciation” Symposium, Society of Molecular Biology and Evolution, Halifax
- “Evolution of Motor Patterns” Workshop, National Science Foundation
- “Genetics and Genomics of Emerging Model Species” Symposium, Radcliffe Institute, Harvard University
- 2006 • “Natural Variation in a Post-Genomics Context” Symposium, Leiden University, Holland
- “Vertebrate Genomics” Symposium, Cornell University, Ithaca, NY
- “Young Scientist Symposium,” University of Michigan, Ann Arbor, MI
- “Evolution of Behavioral Phenotypes” Symposium, Evolution Meetings, Stony Brook, NY
- “Biology and Conservation of Beach Mice Conference,” USFWS, Live Oak, FL
- 2005 • “Solving Darwin's Mystery: The Genomics of Speciation,” Radcliffe Institute, Cambridge, MA
- “International Symposium on Conservation Genetics” Asilomar, CA
- “Adaptive Evolution in Mammalian Populations” Symposium, American Society of Mammalogists Meeting, Springfield, MO
- “Genetics & Development of Color Pattern” Symposium, Evolution Meeting, Fairbanks, AK
- 2004 • “Genes in Ecology and Ecology in Genes,” Symposium, Kansas City, KS
- 2003 • Gordon Conference: Evolutionary & Ecological Functional Genomics, New London, NH

UNIVERSITY/INSTITUTE SEMINARS (not including named lectures):

- 2017 • Stony Brook University, Darwin Day Public Lecture (Feb)
 • College of the Holy Cross, Darwin Day Speaker (Feb)
 • Cold Spring Harbor Labs, Graduate-student invited speaker (Feb)
- 2016 • National Institutes of Health, Wednesday Afternoon Lecture Series
 • Howard Hughes Medical Institute, Director's Series, Janelia Farm, VA
 • Stowers Institute for Medical Research
 • National Human Genome Research Institute, Division of Intramural Research
 • Harvard University, Department of Organismic & Evolutionary Biology
 • Carnegie Institute, Department of Embryology
 • Smithsonian Institute, National Museum of Natural History, Phylogenetics Consortium
 • University of Maryland, Department of Biology, Graduate-student invited speaker
 • Bridgewater State University, Department of Biological Sciences, Darwin Day Speaker
- 2015 • New York University, Neuroscience Colloquium Seminar Series
 • Duke University, Department of Neurobiology
 • Jacques Monod Institute, Paris
 • Princeton University, Neurobiology Institute
- 2014 • University of California San Diego, Division of Biological Sciences, Department of Cellular and Molecular Medicine Series
 • University of Washington, Genome Sciences Department, Women in Science invited speaker
 • Stanford University, Genetics Department Retreat, Keynote Speaker
 • Yale University, Program in Neuroscience, Graduate-student invited speaker
 • East Carolina State University, Department of Biology, Distinguished Lecture; Graduate-student invited speaker
 • New York University, Department of Biology, Darwin Day Speaker
 • Duke University, University Program in Genetics and Genomics, Distinguished Lecture
- 2013 • Massachusetts Institute of Technology, Biology Colloquium
 • Harvard University Medical School, Department of Neurobiology
 • University of Pennsylvania, Department of Cellular and Developmental Biology
 • Brown University, Department of Ecology and Evolutionary Biology
 • University of California, San Francisco, Department of Biochemistry
 • Stanford University, Department of Biology, Graduate-student invited speaker
 • University of New Hampshire, Department of Biology
- 2012 • Cornell University, Cornell Center for Comparative and Population Genomics "3CPG"
 • Rockefeller University, Friday Lecture Series
 • University of Massachusetts Medical School, Neurobiology Seminar series
- 2011 • Northern Arizona University, School of Forestry, Graduate-student invited speaker
 • Yale University, Department of Ecology and Evolutionary Biology
 • University of Iowa, Department of Biology
 • University of Idaho, Department of Biology
 • Cambridge University, Department of Zoology
 • University of Bern, Institute of Ecology and Evolution
 • University of Lausanne, Biology and Integrative Genomics (BIG) Series
 • University of Basel, Zoologisches Institute
 • University of Illinois at Urbana-Champaign, Institute for Genomic Biology
 • Clemson University, Genetics and Biochemistry Program, Graduate-student invited speaker
 • University of British Columbia, Zoology Department
 • University College London, Center for Ecology and Evolution
- 2010 • Max Planck Institute (MPI) for Developmental Biology and the Friedrich Miescher Laboratory (FML), Distinguished Lecture Series (Mittwochs-Kolloquium), Tübingen, Germany
 • Max Planck Institute (MPI) for Chemical Ecology, Jena, Germany
 • University of Zurich, Institute of Zoology
 • University of Sheffield, Department of Animal & Plant Sciences
 • Harvard University Medical School, Center for the Developing Child

- National Institutes of Health, Mammalian Development Section
- Stanford University, Department of Genetics
- 2009 • University of Chicago, Committee on Genetics, Genomics & Systems Biology, Graduate-student invited speaker
- University of Minnesota, Department of Ecology, Evolution and Behavior
- Carleton College, Department of Biology, Darwin Day Speaker
- 2008 • University of Louisville, Department of Biology
- Lund University, Department of Cell & Organism Biology
- Michigan State University, Ecology, Evolutionary Biology & Behavior Program
- Indiana State University, Department of Biology, Darwin Day Speaker
- Georgetown University, Department of Biology, Graduate-student invited speaker
- 2007 • Indiana University, Evolution, Development & Genomics IGERT, Graduate-student invited speaker
- Boston University, Department of Biology
- University of South Carolina, Department of Biology
- University of Toronto, Department of Ecology & Evolutionary Biology
- North Carolina State University, W. M. Keck Center for Behavioral Biology, Distinguished Seminar series (co-hosted by the Departments of Zoology and Genetics)
- University of California at Davis, Department of Evolution & Ecology
- University of California at Davis, Genetics Program, Graduate-student invited speaker
- Texas A&M University, Department of Biology
- Simon Frasier University, Department of Biology
- University of British Columbia, Department of Zoology
- University of Washington, Department of Biology
- 2006 • University of Utah, Department of Biology
- University of Queensland, Australia, School of Integrative Biology
- University of Chicago, Department of Ecology & Evolution
- University of Kansas, Department of Ecology & Evolutionary Biology
- University of Missouri, Columbia, Department of Biological Sciences
- University of Wisconsin, Madison, Department of Genetics
- Fred Hutchinson Cancer Research Center, Division of Human Biology, Seattle, WA
- University of California Riverside, Genetics, Genomics & Bioinformatics Program, Graduate-student invited speaker
- University of Pennsylvania, Department of Biology, Graduate-student invited speaker
- University of Nevada at Reno, Department of Biology
- University of California Berkeley, Museum of Vertebrate Zoology
- University of California Berkeley, Department of Integrative Biology
- Harvard University, Department of Organismic and Evolutionary Biology
- Princeton University, Department of Ecology & Evolutionary Biology
- Stanford University, Department of Biological Sciences
- 2005 • University of California at Santa Barbara, Dept. of Ecology, Evolution & Marine Biology
- Center for Research on Endangered Species, San Diego Zoological Society
- University of California at Riverside, Department of Biology
- Washington University, Department of Biology, Graduate-student invited speaker
- Harvard University, Department of Organismic & Evolutionary Biology
- Duke University, Department of Biology, “Super Speaker” Graduate-student invited speaker
- University of California at Santa Cruz, Department of Biology
- 2004 • Stanford University, Department of Biological Sciences
- Scripps Institute of Oceanography, University of California, San Diego
- University of California at Los Angeles, Organismic Biology, Ecology & Evolution Dept.
- University of California at Irvine, Department of Biological Chemistry
- 2003 • San Diego State University, Department of Ecology & Evolution
- 2002 • University of South Carolina, Department of Biological Sciences
- University of California at Berkeley, Department of Integrative Biology (2 seminars)
- State University of New York at Stony Brook, Department of Ecology & Evolution
- University of Oregon, Department of Biology

- University of Rochester, Department of Biology
 - Pennsylvania State University, Department of Biology
- 2001
- University of California at Irvine, Department of Ecology & Evolutionary Biology
 - University of California at San Diego, Department of Ecology, Behavior & Evolution