

CURRICULUM VITAE

HOPI ELISABETH HOEKSTRA

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EDUCATION

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

PROFESSIONAL EXPERIENCE

- 2014 **Harvard College Professor** (5-year endowed Chair)
Faculty of Arts & Sciences, Harvard University
- 2014-2019 **Institute Member** (4-year term)
The Broad Institute
- 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

ACADEMIES

- 2021 Elected Fellow, *American Association for the Advancement of Science*
2018 Elected Member, *The American Philosophical Society*
2017 Elected Fellow, *The American Academy of Arts & Sciences*
2016 Elected Member, *The National Academy of Sciences*

HONORS

- 2019 C. Hart Merriam Award, The American Society of Mammalogists
2017 Bjorkman-Strominger-Wiley Prize, Dept of Molecular and Cellular Biology, Harvard University
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, Harvard University
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

2022	Carl Friedrich von Siemens Foundation Lecture, Munich, Germany (Dec)
2022	The Ernst Mayr Lecture, The Berlin-Brandenburg Academy of Sciences, Germany (Nov)
2022	Thomas H. Roderick Lecture, McKusick Short Course at Jackson Laboratory, Maine (July)
2022	The James V. Neel Lectureship, University of Michigan (May)
2022	The SAGE Center Lecture, University of California, Santa Barbara (Apr)
2022	The Heller Lectures, Edmond & Lily Safra Center for Brain Sciences, Hebrew University (postponed)
2021	BIG Ideas Public Lecture, Stowers Institute, Kansas City, MO (virtual)
2021	The Richard B. Groot Lecture, Cornell University (virtual)
2019	The Harvey Society Lecture, New York City
2019	The Thomas Hunt Morgan Lecture, University of Kentucky
2019	The Terry Keiser Distinguished Lecturer in Life Sciences, Ohio Northern University
2019	The Donald C. Shreffler Memorial Lecture, Washington University Medical School
2019	The Storer Lectureship in the Life Sciences, University of California, Davis
2019	The Marian E. Koshland Lecture, University of California, Berkeley
2019	The Alexander M. Cruickshank Endowed Lectureship, University of Rhode Island
2019	The Juanita Greer White Distinguished Lecturer, School of Life Sciences, UNLV
2018	The VWR Distinguished Lecture, Georgia Institute of Technology
2018	Special Lecture, The Society for Neuroscience
2018	The Maclyn McCarty Lecture, Helen Hay Whitney Foundation
2018	The Leslie G. Orgel Lecture, Salk Institute
2018	The Evelyn Spritz Lecture, University of Colorado School of Medicine
2018	The Odem Lecture, University of Georgia
2018	The Pasakarnis-Buchanan Endowed Lecture, Bowling Green State University
2018	The Gavin Borden Visiting Fellow Lecture, Cold Spring Harbor Labs
2018	The Mind-Brain-Behavior Distinguished Lecture, Harvard University
2018	The Eminent Ecologist Lecture, Rutgers University
2017	The Scott-Moncrieff Lecture, John Innes Centre
2017	The John Bonner Lecture, Princeton University
2017	The Marshak Lecture, University of Pennsylvania
2017	The Sewall Wright Lecture, University of Chicago
2017	The Rhodes Lectureship, Emory University
2017	The Bartholomew B. Brandt Lecture, North Carolina State University
2016	Wednesday Afternoon Lecture Series, National Institutes of Health
2016	The Sager Lecture, Woods Hole Marine Biological Laboratory
2016	The Eminent Ecologist Lecturer, Michigan State University (1 week)
2016	The Atwood Lecture, University of Toronto
2015	The Eliana Hechter Memorial Lecture, Broad Institute
2015	The Rosenblatt Lecture in Evolutionary Biology, Scripps Institute of Oceanography
2015	The Carpenter-Cohn Lecturer in Comparative Biology, San Diego State University
2014	The Helen Wendler Deane Lecture in Biological Sciences, Wellesley College
2014	The Allan C. Wilson Memorial Lectures, University of California Berkeley
2014	The Kristine Bonnevie Lecture, University of Oslo
2014	The Peter and Rosemary Grant Lecture, University of Zurich
2014	The Herman Beerman Lecture, Society for Investigative Dermatology
2014	The Annual Distinguished Woman in Science Lecture, Barnard College

2013	The George Williams Speaker, State University of New York at Stony Brook
2013	The Herbert Morawetz Distinguished Science Lecture, Polytechnic Institute of NYU
2013	Huck Institute Distinguished Lecture, Penn State University
2013	The A. Watson Armour III Lecture, Women in Science Symposium, The Field Museum
2012	The J.W. Jenkinson Memorial Lectureship, University of Oxford, UK
2012	The Distinguished Visiting Professor, University of Miami (2 weeks)
2012	The Don Summers Memorial Lecture, University of Utah
2012	The Fairfield Osborn Memorial Lecture, Rockefeller University
2012	The George A. Lubinsky Memorial Lecture, University of Manitoba
2011	The Randall Women in Science Lecture and Visiting Scholar, University of Idaho
2008	The College of Liberal Arts & Sciences F. Wendell Miller Lecturer, Iowa State University
2008	The Brown and Williamson Distinguished Lecturer, University of Louisville
2007	The Storer Lectureship in the Life Sciences, University of California at Davis
2007	Distinguished Lectureship, University of Toronto, Introductory Biology lecture
2006	Young Scientist Symposium Speaker, University of Michigan

UNIVERSITY SERVICE AND LEADERSHIP (SELECTED)

2021-pres	Member, Advisory Committee to the Provost
2020-2021	Chair, Tenure Track Review Committee
2017-2018	Member, Life Sciences Steering Committee
2017-2018	Member, Faculty Advisory Committee for the Harvard Presidential Search
2016-2021	Member, Committee on Appointments and Promotions
2016-2020	President, Phi Beta Kappa Society
2014-2015	Provost's Academic Leadership Forum
2012-2015	Member, Faculty Council

ADVISORY BOARDS

2021-pres	Standing Committee, MPI for Biological Intelligence
2019-pres	Advisory Board, Searle Scholars Program
2018-pres	Board of Advisers, <i>Scientific American</i>
2015-pres	Advisory Board, Quanta Magazine, Simons Foundation
2015-2019	Scientific Advisory Board, Perlara PBC
2013-pres	Advisory Board, Cold Spring Harbor Laboratories, bioRxiv Project
2013	External Advisory Committee, Microbiology Initiative, The Gordon & Betty Moore Foundation
2013-2015	Advisory Board of Educators, America's Amazing Teen
2012-2018	Scientific Advisory Committee, Max Planck Institute for Chemical Ecology
2012-2014	External Advisory Committee for the Directorate of Biological Sciences, Natl Sci Foundation
2010	Scientific Advisory Committee, Uppsala Centre for Evolution and Genomics
2007-2010	Science Advisory Board, National Evolutionary Synthesis Center (NESCent)

EDITORIAL BOARDS

2019-pres	Member, Advisory Editorial Board, <i>Development</i>
2018-pres	Member, Editorial Board, <i>Proceedings of the National Academy of Sciences</i>
2018-pres	Member, Editorial Board, <i>Current Biology</i>
2018-pres	Consulting Editor, <i>PLoS Genetics</i>
2013-pres	Member, Editorial Board, <i>Cell Reports</i>
2012-2018	Senior Editor, Evolution section, <i>PLoS Genetics</i>
2007-2010	Associate Editor, <i>Evolution</i>

MEETING ORGANIZER

2020-2022	Co-Chair, Biology of Genomes, Cold Spring Harbor Laboratory Meeting
2019-2020	Chair, Program Committee for the Population, Evolutionary and Quantitative Genetics (PEQG) meeting of The Allied Genetic Conference, Washington DC

- 2018 Program Committee, Society for Molecular Biology & Evolution (SMBE) Meeting
 2017-2018 Co-Organizer, GSA Population, Evolutionary & Quantitative Genetics (PEQG) Meeting

PROFESSIONAL SERVICE/LEADERSHIP

- 2020-2023 Section Chair, Evolutionary Biology (section 27), National Academy of Sciences
 2020 Member, Allen Institute Planning Workshop - Genomic & Evolutionary Basis of Cell Types
 2020 Member, Smithsonian National Museum of Natural History Visiting Committee
 2019 External reviewer, Department of Neurobiology & Behavior, Cornell University
 2019-pres External reviewer, Hanna Gray Postdoctoral Fellowship, Howard Hughes Medical Institute
 2018 Chair, National Academy of Sciences Lounsbery Award Jury
 2018 Chair, External review, Department of Ecology & Evolutionary Biology, Brown University
 2018 External reviewer, Department of Biology, Amherst College
 2018-pres Selection Committee, Schmidt Science Fellows
 2017-2020 President, Society for the Study of Evolution (elect, current, past)
 2017-2020 Director, Genetics Society of America, Board of Directors
 2017 Chair, Population Biology Program of External Review, UC Davis
 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
 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
 2005 National Science Foundation Grant Review Panel

SELECTED OUTREACH

- 2022 Instructor, Guarda Summer Workshop in Evolutionary Biology, Switzerland (June; 1 week)
 2021 Distinguished Lecturer, Program for Research in Science and Engineering (PRISE), Harvard
 2020 Distinguished Lecturer, Program for Research in Science and Engineering (PRISE), Harvard
 2020 Lecturer, Marine Biological Laboratories, Physiology course, Woods Hole, MA
 2019 Distinguished Lecturer, Program for Research in Science and Engineering (PRISE), Harvard
 2019 Lecturer, Marine Biological Laboratories, Physical Biology of the Cell course, Woods Hole, MA
 2018 Instructor, Guarda Summer Workshop in Evolutionary Biology, Switzerland (1 week)
 2018 Lecturer, Marine Biological Laboratories, Physiology course, Woods Hole, MA
 2017 Distinguished Lecturer, Program for Research in Science and Engineering (PRISE), Harvard
 2017 Lecturer, Marine Biological Laboratories, Physical Biology of the Cell course, Woods Hole, MA
 2017 Guest, National Public Radio "Living Lab on the Point"
 2017 Guest, BioLogic podcast, Broad Institute
 2017 Guest, This Week in Evolution (TWiEVO) podcast
 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, *PLoS Genetics* 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, *The Princeton Guide to Evolution*, 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 21st 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

PREPRINTS

- Kingsley, E.P., E.R. Hager, J-M. Lassance, K.M. Tuner, O.S. Harringmeyer, C. Kirby, B.I. Neugebreen and H.E. Hoekstra. 2021. Adaptive tail-length evolution in deer mice is associated with differential *Hoxd13* expression in early development. *bioRxiv* 2021.12.18.473263. (in review)
- Wooldridge, T.B., A.F. Kautt, J.M. Lassance, S. McFadden, V.S. Domingues, R. Mallarino and **H.E. Hoekstra**. 2021. A novel enhancer of *Agouti* contributes to parallel evolution of cryptically colored beach mice. *BioRxiv* 2021.12.18.467454. (in review)

- Bedford, N.C., J.T. Gable, C.K. Hu, T.B. Wooldridge, N.A. Sokolov, J.M. Lassance and **H.E. Hoekstra**. 2021. Automated tracking reveals the social network of beach mice and their burrows. *bioRxiv* 2021.08.07.455531. (in revision)
- Hager, E.R.* , O.S. Harringmeyer*, T.B. Wooldridge, S. Theingi, J.T. Gable, S. McFadden, B. Neugeboren, K.M. Turner and **H.E. Hoekstra**. 2021. A chromosomal inversion drives evolution of multiple traits in deer mice. *bioRxiv* 2021.01.21.427490. (in revision)
- Bedford, N.C.* , J.N. Weber*, W. Tong, F. Baier, A. Kam, R.A. Greenberg, and **H.E. Hoekstra**. 2021. Behavioural mechanisms underlying the evolution of cooperative burrowing in *Peromyscus* mice. *bioRxiv* 2019.08.20.731984. (in revision)
- **Hoekstra, H.E.** and G.E. Robinson. 2022. Behavior Genetics to Genomics: Mendel's peas, mice and bees. *Proceeding of the National Academy of Sciences*. (in revision)

PUBLICATIONS

1. Hu, C.K., R.A. York, H.C. Metz, N.L. Bedford, H.B. Fraser and **H.E. Hoekstra**. 2021. *Cis*-regulatory changes in locomotor genes are associated with the evolution of burrowing behavior. *Cell Reports* 38:110360.
2. Hager, E.R. and **H.E. Hoekstra**. 2021. Tail length evolution in deer mice: linking morphology, behavior and function. *Integrative and Comparative Biology* 61(2):385–397.
3. Jourjine, N. and **H.E. Hoekstra**. 2021. Expanding evolutionary neuroscience: insights from comparing variation in behavior. *Neuron* 109(7):1084-1099.
4. Lewandowski, J.P., Dumbović, G., Watson, A.R., Hwang, T., Jacobs-Palmer, E., Chang, N., Much, C., Turner, K., Kirby, C., Schulz, J.F., Müller, C.L., Rubinstein, N.D., Groff, A.F., Liapis, S.C., Gerhardinger, C., Hubner, N., van Heesch, S., **Hoekstra, H.E.***, Sauvageau, M.* and J.L. Rinn*. 2020. The Tug1 lncRNA locus is essential for male fertility. *Genome Biology* 21(1):237.
5. Delaney, E.K. and **H.E. Hoekstra**. 2019. Diet-based assortative mating through sexual imprinting. *Ecology & Evolution* 9:12045–12050.
6. Baier, F. and **H.E. Hoekstra**. 2019. The genetics of morphological and behavioral island traits in deer mice. *Proceedings of the Royal Society B* 286:20191697.
7. Rubenstein, D.R., J.A. Agren, L. Carbone, **H.E. Hoekstra**, N.C. Elde, K.M. Kapheim, L. Keller, C.S. Moreau, A.L. Toth, S. Yeaman, and H.A Hofmann. 2019. Coevolution of genome architecture and social behavior. *Trends in Ecology & Evolution* 34(9):844-855.
8. Barrett, R.D.H., S. Laurent, R. Mallarino, C.C.Y. Xu, S.P. Pfeifer, M. Foll, K. Wakamatsu, J.S. Duke-Cohan, J.D. Jensen and **H.E. Hoekstra**. 2019. Linking a mutation to survival in wild mice. *Science* 363:499-504.
9. Kocher, S.D., R. Mallarino, B.E.R. Rubin, D.W. Yu, **H.E. Hoekstra*** and N.E. Pierce*. 2018. The genetic basis of a social polymorphism in halictid bees. *Nature Communications* 9:4388.
10. Goncalves, G.L, R. Masestri, G.R.P. Moreira, M.A.M. Jacobi, T.R.O. Freitas and **H.E. Hoekstra**. 2018. Divergent genetic mechanisms lead to spiny hair in mammals. *PLoS One* 13(8):e0202219.
11. Delaney, E.K. and **H.E. Hoekstra**. 2018. Sexual imprinting and speciation in two *Peromyscus* species. *Evolution* 72:274-287.
12. Fisher, H.S., K. Hook, W.D. Weber and **H.E. Hoekstra**. 2018. Sibling rivalry: Males with more brothers develop larger testes. *Ecology & Evolution* 8:8197-8203.
13. Lewarch, C.L. and **H.E. Hoekstra**. 2018. The evolution of nesting behavior in *Peromyscus* mice. *Animal Behaviour* 139:103-115.

14. Pfeifer, S.P., S. Laurent, V.C Sousa, C.R. Linnen, M. Foll, L. Excoffier, **H.E. Hoekstra** and J.D. Jensen. 2018. The evolutionary history of Nebraska deer mice: local adaptation in the face of strong gene flow. *Molecular Biology & Evolution* 35:792-806.
15. Metz, H.C., N.L. Bedford and **H.E. Hoekstra**. 2017. Evolution and genetics of precocious burrowing behavior in *Peromyscus* mice. *Current Biology* 27:3837-3845.
16. 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**. 2017. The genetic basis of parental care evolution in monogamous mice. *Nature* 554:434-439.
17. Kingsley, E.P., K.M. Kozak, S.P. Pfeifer, D.-S. Yang and **H.E. Hoekstra**. 2017. The ultimate and proximate mechanisms driving the evolution of long tails in forest deer mice. *Evolution* 71:261-273.
18. 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.
19. Hu, C.K. and **H.E. Hoekstra**. 2017. *Peromyscus* burrowing: A model system for behavioral evolution. *Seminars in Cell & Developmental Biology* 61:107-114.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. Bedford, N.L. and **H.E. Hoekstra**. 2015. *Peromyscus* mice as a model for studying natural variation. *eLIFE* 4:e06813.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.

33. 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.
34. Domingues, V.S., Y.-P. Poh, B.K. Peterson, P.S. Pennings, J.D. Jensen and **H.E. Hoekstra**. 2012. Evidence of adaptation from ancestral variation in young populations of beach mice. *Evolution* 66: 3209-3223.
35. Kronforst, M.R., G.S. Barsh, A. Kopp, J. Mallet, A. Monteiro, 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 & Melanoma Research* 25(4):411-433.
36. 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.
37. 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.
38. Barrett, R.D.H. and **H.E. Hoekstra**. 2011. Molecular Spandrels: experimental tests of adaptation. *Nature Reviews Genetics* 12:767-780.
39. 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.
40. 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.
41. 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.
42. Vignieri, S.N., J. Larson and **H.E. Hoekstra**. 2010. The selective advantage of cryptic coloration in mice. *Evolution* 64:2153-2158.
43. Turner, L.M., A. Young, H. Römler, T. Schöneberg, S. Phelps and **H.E. Hoekstra**. 2010. Monogamy evolves through multiple mechanisms: evidence from V1aR in deer mice. *Molecular Biology & Evolution* 27:1269-1278.
44. **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.
45. 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.
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52. Weber, J.N. *et al.* 2010. Five hundred microsatellite markers for *Peromyscus*. *Conservation Genetics* 11:1243-1246.
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55. 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.
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62. 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.
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67. 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.
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INVITED COMMENTARIES AND POPULAR WRITINGS

- Harringmeyer, O.S., M.L. Woolfolk and **H.E. Hoekstra**. 2020. Fishing for the genetic basis of migratory behavior. *Cell* 184(2):303-305.
- Calisi, R.M. and a Working Group of Mothers in Science. 2018. Opinion: How to tackle the childcare–conference conundrum. *Proceedings of the National Academy of Sciences* 115:2845–2849.
- Mallarino, R.M., N. Pillay, **H.E. Hoekstra** and C. Schradin. 2018. African Striped Mice. *Current Biology* 28:R299-301.
- 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

- “Colour Helps Darwinian Fitness in Nature – Humans are Impacting this Hidden World Too” by S. Das, *Times of India*, March 2022.
- “In the Throws of Change” by C. Orr, *Sports Illustrated*, December 2021.
- “The Wild Experiment That Showed Evolution in Real Time” by E. Yong, *The Atlantic*, January 2019.
- “Seeing ‘Evolution in Real Time’: Mice Blend in to Survive” by K. Wu, *PBS Nova*, January 2019.

- "Is this bee solitary or social? The answer may depend on an autism-linked gene" by E. Pennisi, *Science*, October 2018.
- "Of Mice and Mating" by Sophie Nyguen, Harvard Magazine, March 2018.
- "Grammatik des Buddelns" by J. Grolle, *Der Spiegel*, July 2017.
- "The mouse parent trap" by A. Marks, *Scientific American*, June 2017.
- "Why are some mice (and people) monogamous? A study points to genes" by Carl Zimmer, *New York Times*, April 2017.
- "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 reveals 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

- 2023 • Gordon Conference: Ecological & Evolutionary Functional Genomics, Keynote Speaker (TBD)
- 2022 • Neuronal Circuits Meeting, Ascona, Switzerland (Sept)
 - International Congress of Neuroethology, Lisbon. Presidential Symposium (July)
 - Gordon Conference: Neural Mechanisms of Acoustic Communication (July)
 - Plant and Animal Genome (PAG) Conference, Plenary Speaker (virtual)
- 2021 • Collège de France/EMBL Symposium, Paris (virtual)
 - American Society of Mammalogy Centennial Meeting, Plenary Lecture (virtual)
 - International Behavioural and Neural Genetics Society, Plenary Lecture (virtual)
- 2020 • Cold Spring Harbor Laboratory, Biology of Genomes Keynote Speaker (virtual)
 - Cold Spring Harbor Laboratory, Circuits Meeting Keynote Speaker (cancelled)
- 2019 • Bernstein Computational Neuroscience meeting, Berlin, Germany Keynote Speaker
 - Looking beyond the Standard: what non-model vertebrates can teach us about biomedicine, Berlin, Germany Keynote Speaker
 - Rita Allen Foundation, Scholars Symposium, Banbury Center, NY Keynote Speaker
 - McKnight Neuroscience meeting, Aspen, CO Keynote Speaker
 - Gordon Conference: Molecular Mechanisms in Evolution
 - Human Behavior and Evolution Society (HBES) Conference, Boston, MA Plenary Lecture
- 2018 • Joint Congress on Evolutionary Biology, Montpellier, France Presidential Address
 - Santa Cruz Developmental Biology Meeting, Santa Cruz, CA Keynote Speaker
 - Northeastern Society for Developmental Biology, Woods Hole, MA, Keynote Speaker
- 2017 • Max Planck Institute-Chinese Academy of Sciences ERCT Meeting, Shanghai, China
 - Neuronal Circuits Meeting, Ascona, Switzerland
 - Natural History of the Vertebrates, UC Berkeley
 - Nature Conference on Neurogenetics, New York University, NY
 - International Pigment Cell Conference, Denver, CO, Keynote Speaker
 - EMBO | EMBL Symposium on Neural Circuits, Heidelberg, Germany
 - Yale Genetics Graduate Student Symposium, Keynote Speaker
 - Social Evolution and Genome Complexity Workshop, New York City
- 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, Institute 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, Tübingen, 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 & 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, Potsdam, 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)

- 2022 • Vertex, Science and Medicine seminar series (June, virtual)
- University of Pennsylvania, Perelman School of Medicine, Department of Genetics, Distinguished seminar series (June)
- Carnegie Institute of Embryology (June)
- University of California, Los Angeles, Clinical and Translation Science Institute, Distinguished seminar series (May)
- University of Alabama, Birmingham, Department of Biology (April, virtual)
- University of California Berkeley, Neuroscience Seminar Series (virtual)
- MIT, Department of Biology Colloquium, Postdoc-invited speaker (virtual)
- 2021 • University of Oregon, Department of Biology, Graduate-student invited speaker (virtual)
- Stanford University, Department of Biology (virtual)
- University of Glasgow, Institute of Biodiversity, Animal Health & Comparative Medicine (virtual)
- UC Berkeley, Speciation-Introgression seminar (virtual)
- Max Planck Research School (IMPRS), Evolutionary Biology, Graduate-student invited speaker (virtual)
- University of California San Diego, Genetics Training Grant, Graduate-student invited speaker (virtual)
- University of Texas at Arlington, Department of Biology, Graduate-student invited speaker (virtual)
- 2020 • Grinnell College, Department of Biology (virtual)
- Stowers Institute for Medical Research (virtual)
- 2019 • Allen Discovery Center for Human Brain Evolution, Harvard Medical School
- Neuroscience Lecture Series, Munich, Germany
- Boston University, Department of Biology Retreat, Keynote Speaker
- University of Nevada, Las Vegas, Dept. of Biology
- Duquesne University, Darwin Day Speaker (Public lecture)
- 2018 • Massachusetts Institute of Technology, Molecular & Cellular Neuroscience program
- University of Pittsburg, School of Medicine, Laureate Lecture series
- Harvard Medical School, Dept. Biological Chemistry & Molecular Pharmacology
- Kenyon College, Darwin Day Speaker (Public lecture and departmental lecture)
- Stony Brook University, Darwin Day Speaker (Public lecture)
- 2017 • New York University, Department of Biology, Postdoc invited speaker
- Stonehill College, Biology Department
- Brandeis University, Biology-Neuroscience Colloquium, Graduate-student invited speaker
- College of the Holy Cross, Darwin Day Speaker
- 2016 • Howard Hughes Medical Institute, Director’s Series, Janelia Research Campus
- 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 for Developmental Biology and the Friedrich Miescher Laboratory, Distinguished Lecture Series (Mittwochs-Kolloquium), Tübingen, Germany
- Max Planck Institute 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 Department
- 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

TRAINEES

Postdoctoral Scholars (including present position)

Shuonan He (current), Postdoctoral Fellow

Juan Sanguinetti-Scheck (current), Human Science Frontiers Program Postdoctoral Fellow

Andreas Kautt (current), EMBO Postdoctoral Fellow

Jenny Chen (current), Harvard Data Science Initiative Postdoctoral Fellow

Kelsey Tyssowski (current), Life Sciences Research Foundation Postdoctoral Fellow

Nick Jourjine (current), Jane Coffins Childs Postdoctoral Fellow
 Caroline Hu (current), Research Associate
 Jean-Marc Lassance (2013-2020), Principal Investigator, Universite De Liege, Belgium
 Ricardo Mallarino (2011-2017), Assistant Professor, Princeton University
 Andres Bendesky (2012-2017), Assistant Professor, Columbia University
 Heidi Fisher (2009-2015), Assistant Professor, University of Maryland
 Adam Freedman (2012-2015), Data Scientist at Informatics Division, Harvard University
 Sarah Kocher (2010-2015), Assistant Professor, Princeton University
 Brant Peterson (2008-2013), Senior Scientist at Novartis
 Rowan Barrett (2010-2013), Assistant Professor, McGill University
 Marie Manceau (2007-2013), Principal Investigator, College de France
 Vera Domingues (2008-2012), Associate Editor at *Nature Ecology & Evolution*
 Catherine Linnen (2007-2011), Associate Professor, University of Kentucky
 Sacha Vignieri (UCSD/Harvard, 2007-2009), Associate Editor at *Science*
 Yael Aminetzach (2009-2010), Research Fellow, Harvard Medical School
 Cynthia Steiner (2004-2007), Associate Director, Genetics Division, Inst for Conservation Research

PhD students (including present position)

Maya Woolfolk (current)
 Landen Gozashti (current)
 Rockwell Anyoha (current)
 Olivia Harringmeyer (current)
 Brock Wooldridge (current)
 Felix Baier (2014-2020), Postdoctoral Fellow, MPI Neuroscience, Frankfurt
 Emily Hager (2013-2020), Postdoctoral Fellow, Boston University
 Jake Gable (2014-2020), MSc Student, Science Media Production, Imperial College London
 Nicole Bedford (2012-2019), Assistant Professor, University of Wyoming
 Caitlin Lewarch (2011-2019), Data Scientist, Q-State Biosciences
 Hillery Metz (2009-2016), Postdoctoral Fellow, Princeton University
 Emily Jacobs-Palmer (2008-2015), Postdoctoral Fellow, University of Washington
 Evan Kingsley (2007-2015), Postdoctoral Fellow, Harvard Medical School
 Emily Kay Delaney (2007-2014), Platform Scientist, BigHat Biosciences
 Jesse Weber (2005-2012), Assistant Professor, University of Wisconsin, Madison
 Lynne Mullen (UCSD/Harvard, 2004-2010), Senior Scientist, Qiagen
 Leslie Turner (UCSD, 2002 - 2007), Principal Investigator, University of Bath, UK