

# Alan Robert Templeton

Charles Rebstock Professor of Biology  
Professor of Genetics & Biomedical Engineering  
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## EDUCATION

A.B. (Zoology)	Washington University	1969
M.A. (Statistics)	University of Michigan	1972
Ph.D. (Human Genetics)	University of Michigan	1972

## PROFESSIONAL EXPERIENCE

1972-1974. Junior Fellow, Society of Fellows of the University of Michigan.  
1974. Visiting Scholar, Department of Genetics, University of Hawaii.  
1974-1977. Assistant Professor, Department of Zoology, University of Texas at Austin.  
1976. Visiting Assistant Professor, Dept. de Biologia, Universidade de São Paulo, Brazil.  
1977-1981. Associate Professor, Departments of Biology and Genetics, Washington University.  
1981-present. Professor, Departments of Biology and Genetics, Washington University.  
1983-1987. Genetics Study Section, NIH (also served as an ad hoc reviewer several times).  
1984-1992: 1996-1997. Head, Evolutionary and Population Biology Program, Washington University.  
1985. Visiting Professor, Department of Human Genetics, University of Michigan.  
1986. Distinguished Visiting Scientist, Museum of Zoology, University of Michigan.  
1986-present. Research Associate of the Missouri Botanical Garden.  
1992. Elected Visiting Fellow, Merton College, University of Oxford, Oxford, United Kingdom.  
2000. Visiting Professor, Technion Institute of Technology, Haifa, Israel  
2001-present. Charles Rebstock Professor of Biology  
2001-present. Professor of Biomedical Engineering, School of Engineering, Washington University  
2002-present. Visiting Professor, Rappaport Institute, Medical School of the Technion, Israel.  
2007-2010. Senior Research Associate, The Institute of Evolution, University of Haifa, Israel.  
2009-present. Professor, Division of Statistical Genomics, Washington University  
2010-present. Part-time Full Professor, Institute of Evolution, and Department of Evolutionary and Environmental Biology, University of Haifa, Israel.

## RESEARCH INTERESTS

Population Genetics  
Ecological Genetics  
Speciation  
Conservation Biology  
Human Evolution  
Molecular Quantitative Genetics of Common Diseases in Humans

## HONORS AND AWARDS

Phi Eta Sigma, 1966.

Phi Beta Kappa, 1969.

Sigma Xi, Associate Member, 1969; Full Member, 1972.

Washington University Scholarship, 1965-1969.

A.B. Summa Cum Laude, 1969.

NSF Predoctoral Fellowship, 1969-1972.

Junior Fellow, Society of Fellows of the University of Michigan, 1972-1974.

Edward Bean Award, 1984. Awarded to the St. Louis Zoological Garden for Speke's Gazelle Management Program designed by Templeton and Read.

Genetics Society of Australia Invited Oversea Speaker, 1988.

Edward Bean Award, 1989. Awarded to the St. Louis Zoological Garden for the Banteng/Gaur Management Program designed by Templeton and Read.

Millercomm Distinguished Speaker, 1990. University of Illinois.

NMSU Distinguished Speaker, 1991. New Mexico State University.

EPSCoR Distinguished Speaker, 1992. University of South Carolina.

Ecology & Evolutionary Biology Distinguished Speaker, 1992. Michigan State University.

Award "For Outstanding Effort in the Conservation of Missouri's Biodiversity." Awarded jointly by the Missouri Department of Conservation and United States Forest Service, 1992. Jefferson City, Missouri.

Ashby Dialogue Lecturer, 1994. University of North Carolina at Greensboro.

Russell Marker Lecturer, 1994. Pennsylvania State University.

Rockefeller Distinguished Lecturer, 1994. University of Arkansas.

President, Society for the Study of Evolution, 1996-1997.

George C. Wheeler Distinguished Lecturer, 1997. University of North Dakota.

Elected Fellow of AAAS, 1997. "For fundamental contributions to both experimental and theoretical population genetics and to conservation biology."

Elected Fellow, Academy of Science of St. Louis, 1998.

Brode Lecturer, 2000. Whitman College, Walla Walla, WA.

Burroughs Wellcome Fund Innovation Award in Functional Genomics, 2000.

Distinguished Israel Pollak Lecturer, 2000. Technion Institute of Technology, Haifa, Israel

Stigler Lecturer in Archaeology. University of Arkansas, 2001.

Installed as Charles Rebstock Professor of Biology. 2001.

David Murdock-Dole Lectureship and Award "In recognition of outstanding contributions in human genetic studies." Nobelforum, Stockholm, Sweden. 2002.

Genetics Society of Australia Invited Oversea Speaker, 2004.

Lorene Murrow Kelly Distinguished Lecturer, University of Texas, 2005

Listed in the top 1% of cited authors for journals in the Life Sciences, 2005

Fulbright-Israel Distinguished Chair in the Natural Sciences and Engineering, 2007

Listed as an author of one of the top 1% most highly cited papers in the Life Sciences worldwide, 2011.

The 2011 Ecology paper on metapopulations in collared lizards was placed by the Faculty of 1000 in their library of the top 2% of published articles in biology and medicine.

## EDITORSHIPS

Associate Editor, "Theoretical Population Biology" 1978-1981.

Editor, "Theoretical Population Biology" 1981-1990.

Associate Editor, "The American Naturalist" 1980-1984, 2002-2005.

Associate Editor, "Paleobiology" 1983-1985.  
Editorial Board, "Molecular Phylogenetics and Evolution" 1991-present.  
Associate Editor, "Brazilian Journal of Genetics" 1991-1997.  
Associate Editor, "Genetics and Molecular Biology" 1998-2001.  
Editorial Board, "Animal Conservation" 2004-2007.  
Honorary Editorial Board Member, "Evolutionary Bioinformatics Online" 2005-present.  
Editorial Board, "Rambam (Maimonides) Medical Journal" 2008-present.  
Editor, Special Issue on "Cladistic Analysis and Molecular Evolution" for the "International Journal of Molecular Sciences", 2009-2010.  
Associate Editor, "Israel Journal of Ecology and Evolution", 2010-present

## **OFFICES AND MEMBERSHIPS**

American Association for the Advancement of Science  
Society for the Study of Evolution  
Vice President I, 1982-1983; President, 1996-1997.  
Genetics Society of America  
Member of the Education Committee of the GSA, 1986-1988.  
Consultant, St. Louis Zoological Garden, 1979-present.  
Consultant, National Zoological Park, Washington, D.C., 1983-1989.  
Consultant, Ecumenical Dioxin Task Force, 1984-1987.  
Genetics Study Section, NIH, Permanent member 1983-1987, plus occasional ad hoc attendance.  
Founding member of the Society for Conservation Biology.  
Member, Board of Directors of SCB, 1985-1988.  
Trustee, the Missouri Chapter of The Nature Conservancy, 1988-present.  
Vice President for Conservation, 1996-2000.  
Member, Biodiversity Task Force for the State of Missouri, 1990-1992.  
Member, International Evaluation Panel of Swedish Research in Systematics. Swedish Natural Science Research Council, 1990.  
Member, UNESCO-MAB/IUBS/SCOPE Workshop on a Research Agenda for Biodiversity, 1991-1994.  
Consultant, Ralston Purina Company, Pet Nutrition Research Department, 1989-1992.  
Consultant, Genetics Research Panel for the Biosphere 2 Project, 1991.  
Member, Health and Environmental Research Advisory Committee, Department of Energy, 1993.  
National Institutes of General Medical Sciences Council, ad hoc member. 1993.  
Member, Advisory Committee, Tropical Terrestrial Ecology Division of the Minority Research Center for Excellence. 1994-1998.  
Member, Genetic Biodiversity Maintenance Working Group for the State of Missouri. 1994-1996.  
Gene Scene Redesign Advisory Team, St. Louis Science Center. 1994-1996.  
Member, National Research Council Panel on Evolutionary Implications of Modern Species Extinction. 1995-1996.  
Member, National Research Council Committee on "The Human Genome Diversity Project." 1996-1997.  
Member, Natural Systems Agriculture Advisory Team, The Land Institute, Salina, KS, 1997-present.  
Member, Advisory Committee, Columbia Earth Institute, Columbia University, NY, 1997.  
Consultant, Variagenics Inc., Cambridge, Massachusetts. 1997-2003.  
Member, Advisory Board, RGA/Washington University Longevity Research Foundation,

1998–1999.

Chair of the NIH Advisory Group for a Proposed Initiative on Studies of Large-scale genetic variation, 2001.

American Society of Naturalists, 2002–2005.

Zoological Society of London, 2004–present.

External Evaluator, Departments of Biology at the Universidade de São Paulo, São Paulo Campus and Riberão Preto Campus, 2004.

Member of the Monitoring and Assessment Panel for the “Investing in Multidisciplinary University Activities (IMUA II) through NSF Hawaii EPSCoR RII.” 2006–2009.

Member, U.S. Fish & Wildlife Service Endangered Species Recovery Team for the Hine's Emerald Dragonfly (*Somatochlora hineana*). 2006–present.

Member of the Monitoring and Assessment Panel for the “Investing in Multidisciplinary University Activities (IMUA III) through NSF Hawaii EPSCoR RII.” 2010–present.

## RESEARCH SUPPORT

NSF Grant GB-41278. "The Unit of Selection." Co-principal investigator with Dr. C. Sing. \$20,000, 1974.

NIH Grant GM-20903. "The Unit of Selection." Co-principal investigator with Dr. C. Sing. \$50,000, 1974–1977.

NSF Grant BMS74-17453. "The Evolutionary Biology of *Drosophila mercatorum*." \$40,000, 1974–1977.

Biomedical Sciences Support Grant. \$5,000, 1974–1975.

NSF Grant DEB76-16985. "Studies of Selection, Fitness and Speciation." \$51,000, 1976–1979.

NSF Grant DEB78-10455. "Selection, Fitness and Speciation." \$33,340, 1978–1979.

NSF Grant DEB79-08860. "Selection, Coadaptation and Speciation in *Drosophila mercatorum*." \$51,652, 1979–1980.

NIH Grant R01 GM27021. "Selection, Coadaptation and Speciation in *Drosophila mercatorum*." \$136,027, 1980–1983.

Biomedical Research Support Grant. \$4,600, 1981–1982.

Biomedical Research Support Grant. \$4,000, 1983–1984.

NIH Grant 1 P41 GM32675-01. "VAX11/750 Computational Facility." \$120,000, 1984. Biomedical Research Support Grant. \$2,500, 1984–1985.

Missouri Conversation Commission Contract for Establishing Collared Lizard Populations on Restored Glades. \$2,350, 1984.

Biomedical Research Support Grant. \$6,600, 1985–1986.

Subcontract to "Genetic assessment of the captive breeding plan and the breeding population in the Mexican wolf (*Canis lupis baileyi*) recovery program. \$5,000, 1985.

Nixon Griffis Fund for Zoological Research. "Genetic survey of wild cattle, oxen and buffalo." \$3,000, 1986–1987.

Biomedical Research Support Grant. \$5,000, 1986–1987.

NIH Grant R01 AG02246. "The Aging Effects Associated with a Polygenic Complex." \$122,654, 1980–1983. \$159,404, 1983–1986. \$132,423, 1986–1989. \$199,239, 1989–1992.

NSF Grant BSR-9007117. "The evolutionary genetics of a mate recognition cue: male song in Hawaiian crickets." \$134,616 direct costs, 1990–1993.

NIH Grant S10 RR06380-01. VAX computer system for the Biology Department. \$132,130, 1991–1992.

NSF Grant BSR 9112000. An examination of the speciation process in *Orconectes*, subgenus *Procericambarus*. Doctoral dissertation improvement grant for Keith Crandall. \$10,041, 1991-1993.

NSF Grant BSR 9112619. Population subdivision in *Trimerotropis saxatilis* (Acrididae). Doctoral dissertation improvement grant for Anne Gerber. \$10,050, 1991-1993.

NSF Grant DEB 9213184. An analysis of the speciation process in cave spiders of the genus *Nesticus*. Doctoral dissertation improvement grant for Marshal Hedin. \$10,007, 1992-1994.

Subcontract to Dr. Charles F. Sing's NIH grant R01 HL39107, "Genetic epidemiology of coronary heart disease." \$90,000 (subcontract only), 1987-92. \$166,446, 1992-1997.

NIH Grant R01 GM31571. "The Use of Recombinant DNA in Population Genetics." \$330,795, 1983-1986. \$635,708, 1986-1991. \$615,876, 1991-1997.

NSF Grant DEB 9423684. A phylogenetic assessment of biogeography and character evolution in the subfamily Antelopinae. Doctoral dissertation improvement grant for Laura Bischof. \$10,000, 1995-1999.

NSF Grant DEB-9701809. Separating population structure from population history in the South American cactophilic *Drosophila buzzatii* subgroup. Doctoral dissertation improvement grant for Reinaldo Alves de Brito. \$13,350. 1997-1999.

NSF Grant DEB-9610219. The impact of forest fire management on the population structure of collared lizards in the Ozarks. \$227,000, 1997-2001. \$389,999, 2001-2008. REU supplements, \$5,000 1998; \$5,000 1999; \$6000 2002; \$6000 2003. ROA supplement, \$25,000, 2003.

NIH Grant R01 GM60730. Co-PI with Dr. Richard Markham, Johns Hopkins University. The impact of recombination in HIV-1 on intrahost evolution. \$392,286 (W.U. portion only). 1999-2004.

Burroughs Wellcome Fund Innovation Award in Functional Genomics. Cladistic analysis of epistasis among candidate genes influencing common diseases. \$200,000. 2000-2004.

NSF Grant DEB-0104977. The evolution and development of abdominal pigmentation patterns in natural populations of *Drosophila polymorpha*. Doctoral dissertation improvement grant for Jennifer Brisson. \$10,000. 2001-2003.

NIH R01 HG002191. Race and public communication about human variation. \$64,380 (W.U. subcontract only). 2001-2004.

NIH 1U01 GM63340 (Dr. Howard McLeod, PI). Functional polymorphism analysis in drug pathways. \$40,000 (My subcontract only). 2001-2005. \$80,000 2005-2010.

Packard Foundation Interdisciplinary Science Program. A multidisciplinary approach to the study of the evolution of biological form and diversity \$1,000,000 (shared among five co-pi's). 2001-2006.

NIH P50-GM65509 (Dr. Charles F. Sing, PI). Genomic approaches to common chronic disease. \$270,975 (W.U. subcontract only). 2004-2007. \$900,000 (W.U. subcontract only). 2007-2012.

NIH 2R01 GM02871924A2 (Dr. D. C. Rao, PI). Research project in genetic epidemiology. \$85,000 (My subcontract only). 2005-2009.

Legacy Heritage Fund Limited. Convergence of Population Genetics and Computational Technologies in the Identification of Genomic Susceptibility Loci and in Predictive Genomics in Populations with Well Defined Genetic Architecture. \$100,000. 2008.

NSF DDIG 0807879 (Templeton and Griffin, coPIs). Dissertation Research: Impacts of invasive species: population consequences of altering inbreeding depression and mating systems in native plants. \$11,870. 2008-2010.

BSF 2009296. Co-PI with Dr. Shirli Bar-David, Ben Gurion University, Israel. Interaction between range expansion and genetic structure in a reintroduced wild ass population. \$60,000. 2010-2012.

## PUBLICATIONS

### THESES

Bachelor's: The Population Genetics of *Scaptomyza pallida*.

Doctorate: Statistical Models of Parthenogenesis.

### ABSTRACTS (published in journals)

1. Templeton, A.R. and C.F. Sing. Parthenogenesis as a strategy for studying genetic organization. *Isozyme Bulletin* 5: 1972.
2. Sing, C.F. and A.R. Templeton. Parthenogenesis as a biological design to examine the neutral gene hypothesis. *Isozyme Bulletin* 6: 1973.
3. Templeton, A.R. and C.F. Sing. Coadaptation in parthenogenetic strains of *Drosophila mercatorum*. *Genetics* 74: s274, 1973.
4. Templeton, A.R. and C.F. Sing. Coadaptation in parthenogenetic strains of *Drosophila mercatorum*. *Isozyme Bulletin* 6: 1973.
5. Rothman, E.D., A.R. Templeton and C.F. Sing. Analysis of population structure. *Genetics* 74: s234, 1973.
6. Templeton, A.R. The capacity for parthenogenesis in wild-caught females of *Drosophila mercatorum*. *Isozyme Bulletin* 8: 1975.
7. Templeton, A.R. Genetics of the bisexual-unisexual transition in *Drosophila mercatorum*. *Isozyme Bulletin* 10: 1977.
8. Templeton, A.R. The genetic and physiological basis of coadaptation in parthenogenetic strains of *Drosophila mercatorum*. XIV International Congress of Genetics, Abstracts of Contributed Papers, C.16, 1978.
9. Templeton, A.R. Some possible relationships between rapid speciation, small effective size, and breeding systems. In: *The Dynamics of Speciation in Plants and Animals*. H.-I. Oka and O. Kitagawa, eds. Japan Society for the Promotion of Science, 1978.
10. DeSalle, R. and A.R. Templeton. Molecular basis of the abnormal abdomen phenotype in *Drosophila mercatorum*. *Genetics* 104: s21, 1983.
11. Templeton, A.R. Natural selection and ribosomal DNA in *Drosophila*. *Genome* 30, Suppl. 1: 29, 1988.
12. Templeton, A.R. Habitat fragmentation: genetic problems and solutions. *Genetics* 122: s12, 1989.
13. Sing CF, Haviland MB, Templeton AR, Reilly SL. Alternative genetic strategies for predicting risk of atherosclerosis. Xth International Symposium on Atherosclerosis Montreal, Canada, October 9-14, 1994.
14. Matioli, S. R. and A. R. Templeton. Complexos gênicos coadaptados para características morfológicas de *Drosophila mercatorum*. *Rev. Bras. Genet.* 18(3 (Supplement)): 280, 1995.

15. Sing CF, Haviland MB, Templeton AR, Reilly SL. Alternative genetic strategies for predicting risk of atherosclerosis. MDC Symposium on Complex Genetic Diseases. Berlin, Germany, September 27-29, 1995.
16. Templeton, A. R., and B. Read. 1996. Inbreeding: One Word, Several Meanings, Much Confusion. *Biological Conservation* 75:311.
17. Haviland MB, Templeton AR, Ferrell RE, Sing CF. Identification of haplotypes of the apolipoprotein (Apo) B gene region hypothesized to carry functional DNA variations using a cladistic analysis. The American Society of Human Genetics 46th Annual Meeting San Francisco, CA, October 29-November 2, 1996.
18. Templeton, A. R. A critique of the use of genetic data in analyzing human origins. *American Journal of Human Biology* 9(1): 122, 1997.
19. Hammer, M.F., S. L. Zegura, A. Bergen, J. C. Long, W. Klitz, R. C. Griffiths, A. R. Templeton, L. P. Osipova, O. L. Posakh, T. M. Karafet. New World Y chromosome founder haplotypes and the peopling of the Americas. *Am. J. Phys. Anthropol. (Suppl. 28)* 81: 144, 1999.
20. Templeton, A. R. Evolution of haplotypes and complex diseases. *Am. J. Phys. Anthropol. (Suppl. 28)* 81: 264-265, 1999.
21. Bates, B. R., A. Templeton, P. J. Achter, T. M. Harris, and C. M. Condit. A focus group study of public understanding of genetic risk factors: The case of "a gene for heart disease". *American Journal of Human Genetics* 71:380, 2002.
22. Clark AG, Boerwinkle E, Hixson JE, Templeton AR, Sing CF. Genomic approaches to common chronic disease. Centers for Cell Dynamics Research Symposium: Predictive Models of Complex Systems, NIGMS Friday Harbor, June 3-7, 2006.

#### BOOK REVIEWS

1. Templeton, A.R. Review of *Genetics of Speciation* edited by D.L. Jameson. *American Journal of Human Genetics* 31: 88-89, 1979.
2. Templeton, A.R. Review of *Macroevolution: Pattern and Process* by S.M. Stanley. *Evolution* 34: 1224-1227, 1980.
3. Templeton, A.R. Review of *Principles of Population Genetics* by D. Hartl. *Quart. Rev. Biol.* 56: 75-76, 1981.
4. Templeton, A.R. Review of *Evolution and Speciation* edited by W.R. Atchley and D.S. Woodruff. *Sci.* 214: 900-901, 1981.
5. Templeton, A.R. Review of *Basic Population Genetics* by B. Wallace. *Quart. Rev. Biol.* 57: 187-188, 1982.
6. Templeton, A.R. Review of *The Material Basis of Evolution* by R. Goldschmidt. *Paleobiology* 8: 474-481, 1982.
7. Templeton, A.R. Review of *The Evolutionary Biology of Colonizing Species* by P. Parsons. *Ecology* 66: 1691, 1985.
8. Templeton, A.R. Review of *Species and Speciation* edited by E.S. Vrba. *Evolution* 41: 233-235, 1987.
9. Templeton, A.R. Review of *The Natural History of Inbreeding and Outbreeding* edited by N.W. Thornhill. *Conservation Biol.* 8: 608-610, 1994.
10. Templeton, A.R. Review of *Species Evolution: The Role of Chromosome Change* by Max King. *Quart. Rev. Biol.* 70: 76, 1995.
11. Templeton, A. R. Review of *Speciation and the Recognition Concept: Theory and Application* edited by D. M. Lambert and H. G. Spencer. *Amer. Sci.* 85: 384-386, 1997.
12. Templeton, A. R. Review of *Race and Human Evolution* by Wolpoff, M. and Caspari, R. *Current Anthropology* 38(5): 921-922, 1997.

13. Templeton, A. R. Applying genetics to species conservation: a review of *Genetics and the Extinction of Species* edited by L. F. Landweber and A. P. Dobson. *BioSci* 50: 539-540, 2000.
14. Templeton A. R. Review of *Genetic Effects on Environmental Vulnerability to Disease*, Based on a Novartis Foundation Symposium edited by Sir Michael Rutter. *The Quarterly Review of Biology* 85, 107-107, 2010.
15. Templeton, A. R. Review of *Introduction to Conservation Genetics* by R. Frankham, J. D. Ballou, and D. A. Briscoe. *The Quarterly Review of Biology* 86:56, 2011.

#### BOOKS

1. Templeton, A. R. 2006. *Population Genetics and Microevolutionary Theory*. John Wiley & Sons. 705 pgs. Portuguese Edition 2011, translated by Reinaldo Alves de Brito. *Genetica de Populações e Teoria Micoevolutiva*.

#### ARTICLES IN PEER REVIEWED JOURNALS

1. Templeton, A.R. and E.D. Rothman. The population genetics of parthenogenetic strains of *Drosophila mercatorum*. I. One locus models and statistics. *Theoretical and Applied Genetics* 43: 204-212, 1973.
2. Templeton, A.R. Density dependent selection in parthenogenetic and self-mating populations. *Theoretical Population Biology* 5: 229-250, 1974.
3. Templeton, A.R. and E.D. Rothman. Evolution in heterogeneous environments. *American Naturalist* 108: 409-428, 1974.
4. Templeton, A.R. Analysis of selection in populations observed over a sequence of consecutive generations. I. Some one locus models with a single, constant fitness component per genotype. *Theoretical and Applied Genetics* 45: 179-191, 1974.
5. Rothman, E.D., C.F. Sing and A.R. Templeton. A model for analysis of population structure. *Genetics* 78: 943-960, 1974.
6. Templeton, A.R., C.F. Sing and B. Brokaw. The unit of selection in *Drosophila mercatorum*. I. The interaction of selection and meiosis in parthenogenetic strains. *Genetics* 82: 349-376, 1976.
7. Templeton, A.R., H.L. Carson and C.F. Sing. The population genetics of parthenogenetic strains of *Drosophila mercatorum*. II. The capacity for parthenogenesis in a natural, bisexual population. *Genetics* 82: 527-542, 1976.
8. Carson, H.L., L.T. Teramoto and A.R. Templeton. Behavioral differences between isogenic strains of *Drosophila mercatorum*. *Behavior Genetics* 7: 189-197, 1977.
9. Templeton, A.R. Analysis of head shape differences between two interfertile species of Hawaiian *Drosophila*. *Evolution* 31: 630-642, 1977.
10. Templeton, A.R. Survival probabilities of mutant alleles in fine grained environments. *American Naturalist* 111: 897-902, 1977.
11. Anest, J.L. and A.R. Templeton. Genetic recombination and clonal selection in *Drosophila mercatorum*. *Genetics* 89: 193-210, 1978.
12. Templeton, A.R. and E.D. Rothman. Evolution in fine-grained environments. I. Environmental runs and the evolution of homeostasis. *Theoretical Population Biology* 13: 340-355, 1978.
13. Templeton, A.R. and D.A. Levin. Evolutionary consequences of seed pools. *American Naturalist* 114: 232-249, 1979.
14. Templeton, A.R. Chromosome number, quantitative genetics and eusociality. *American Naturalist* 113: 937-941, 1979.



15. Templeton, A.R. A frequency-dependent model of brood selection. *American Naturalist* 114: 515-524, 1979.
16. Templeton, A.R. Once again, why 300 species of Hawaiian *Drosophila*? *Evolution* 33: 513-517, 1979.
17. Templeton, A.R. The unit of selection in *Drosophila mercatorum*. II. Genetic revolutions and the origin of coadapted genomes in parthenogenetic strains. *Genetics* 92: 1265-1282, 1979.
18. Templeton, A.R. The parthenogenetic capacities and genetic structures of sympatric populations of *Drosophila mercatorum* and *Drosophila hydei*. *Genetics* 92: 1283-1293, 1979.
19. Templeton, A.R. The theory of speciation via the founder principle. *Genetics* 94: 1011-1038, 1980.
20. Yokoyama, S. and A.R. Templeton. The effect of social selection on the population dynamics of Huntington's disease. *Annals of Human Genetics* 43: 413-417, 1980.
21. Templeton, A.R. and S. Yokoyama. The effect of reproductive compensation and the desire to have male offspring on the incidence of a sex-linked lethal disease. *American Journal of Human Genetics* 32: 575-581, 1980.
22. Ochman, H., B. Stille, M. Niklasson, R.K. Selander and A.R. Templeton. Evolution of clonal diversity in the parthenogenetic fly *Lonchoptera dubia*. *Evolution* 34: 539-547, 1980.
23. Templeton, A.R. Modes of speciation and inferences based on genetic distances. *Evolution* 34: 719-729, 1980.
24. Rothman, E.D. and A.R. Templeton. A class of models of selectively neutral alleles. *Theoretical Population Biology* 18: 135-150, 1980.
25. Templeton, A.R. The evolution of life histories under pleiotropic constraints and r-selection. *Theoretical Population Biology* 18: 279-289, 1980.
26. Templeton, A.R. and L.R. Lawlor. The fallacy of the averages in ecological optimization theory. *American Naturalist* 117: 390-393, 1981.
27. Templeton, A.R. Some comments on "Genetic variation and progressive evolution" by D. Layzer. *American Naturalist* 117: 1049-1051, 1981.
28. Templeton, A.R. and E.D. Rothman. Evolution in fine-grained environments. II. Habitat selection as a homeostatic mechanism. *Theoretical Population Biology* 19: 326-340, 1981.
29. Templeton, A.R. Mechanisms of speciation -- a population genetic approach. *Annual Review of Ecology and Systematics* 12: 32-48, 1981.
30. Clark, R.L., A.R. Templeton and C.F. Sing. Studies of enzyme polymorphisms in the Kamuela population of *D. mercatorum*. I. Estimation of the level of polymorphism. *Genetics* 98: 597-611, 1981.
31. Templeton, A.R., R. DeSalle and V. Walbot. Speciation and inferences on rates of molecular evolution from genetic distances. *Heredity* 47: 439-442, 1981.
32. Yokoyama, S. and A.R. Templeton. Effect of cultural inheritance of reproductive compensation on the incidence of a sex-linked lethal disease. *Journal of Theoretical Biology* 99: 389-395, 1982.
33. Templeton, A.R. The crisis of partial extinction. *Natural Areas Journal* 2, No. 3: 35-38, 1982.
34. Templeton, A.R. Phylogenetic inference from restriction endonuclease cleavage site maps with particular reference to the evolution of humans and the apes. *Evolution* 37: 221-244, 1983.

35. Giddings, L.V. and A.R. Templeton. Behavioral phylogenies and the direction of evolution. *Science* 220: 372-378, 1983.
36. Templeton, A.R. Systematics of Basidiomycetes based on 5S rRNA sequences and other data. *Nature* 303: 731-732, 1983.
37. Perondini, A.L.P., P.A. Otto, A.R. Templeton and A. Rogatko. Evidence for assortative mating systems related to the polytene chromosome-band polymorphism in *Sciara ocellaris*. *Journal of Heredity* 74:283-288, 1983.
38. Templeton, A.R. and B. Read. Factors eliminating inbreeding depression in a captive herd of Speke's gazelle. *Zoo Biology* 3: 177-199, 1984.
39. Carson, H.L. and A.R. Templeton. Genetic revolutions in relation to speciation phenomena: the founding of new populations. *Annual Review of Ecology and Systematics* 15: 97-131, 1984.
40. Templeton, A.R. The phylogeny of the hominoid primates: a statistical analysis of the DNA-DNA hybridization data. *Molecular Biology and Evolution* 2: 420-433, 1985.
41. Templeton, A.R., T.J. Crease and F. Shah. The molecular through ecological genetics of abnormal abdomen in *Drosophila mercatorum*. I. Basic genetics. *Genetics* 111: 805-818, 1985.
42. DeSalle, R., L.V. Giddings and A.R. Templeton. Mitochondrial DNA variability in natural populations of Hawaiian *Drosophila*. I. Methods and levels of variability in *D. silvestris* and *D. heteroneura* populations. *Heredity* 56: 75-86, 1986.
43. DeSalle, R. and A.R. Templeton. The molecular through ecological genetics of abnormal abdomen. III. Tissue-specific differential replication of ribosomal genes modulates the abnormal abdomen phenotype in *Drosophila mercatorum*. *Genetics* 112: 877-886, 1986.
44. Templeton, A.R. Further comments on the statistical analysis of DNA-DNA hybridization data. *Molecular Biology and Evolution* 3: 290-295, 1986.
45. Templeton, A.R., H. Hemmer, G. Mace, U.S. Seal, W.M. Shields, and D.S. Woodruff. Local adaptation, coadaptation, and population boundaries. *Zoo Biol.* 5: 115-125, 1986.
46. DeSalle, R. and A.R. Templeton. Comments on "The significance of asymmetrical sexual isolation." *Evolution Biol.* 21: 21-27, 1987.
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CHAPTERS IN EDITED BOOKS (MOST PEER-REVIEWED)

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4. Templeton, A.R. Evolution vs. creationism. *Discovery*, Vol. 11, No. 3, pg. 6, 1982.

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6. Coauthor as Member, UNESCO-MAB/IUBS/SCOPE Workshop on a Research Agenda for Biodiversity (O.T. Solbrig, ed.). *From Genes to Ecosystems: A Research Agenda for Biodiversity*. 124 pp. International Union of Biological Sciences, Paris, 1991.
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  27. Templeton, A. R. Hampton Lawrence Carson: 1914-2004: A Biographical Memoir. 19 pgs. *Biographical Memoirs National Academy of Sciences*. National Academy of Sciences, Washington, D.C. Document 76721. [http://www.nasonline.org/site/DocServer/Carson\\_Hampton.pdf?docID=76721](http://www.nasonline.org/site/DocServer/Carson_Hampton.pdf?docID=76721), 2011.

## SEMINARS AND SYMPOSIA

### INVITED SEMINARS

- 1973 State University of New York at Stony Brook.  
University of Wisconsin, Madison.  
Purdue University.  
University of Illinois, Urbana.  
University of Texas at Austin.
- 1974 University of Hawaii.  
University of Texas at Austin.
- 1975 University of California at Davis.
- 1976 Universidade de São Paulo, Brazil.  
Universidade Estadual Paulista de São Jose do Rio Preto.  
Museu de Zoologia da Universidade de São Paulo.  
Universidade Estadual Paulista de Araraquara.  
University of Texas at Houston.  
Baylor University.  
University of Iowa.
- 1977 Washington University.  
University of Michigan at Ann Arbor.
- 1978 St. Louis University.

- Stanford University.
- 1979 University of Illinois, Urbana.  
University of California at Riverside.  
University of Kansas, Lawrence.  
University of Missouri, St. Louis.
- 1980 University of Rochester.  
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Ohio State University.  
University of Texas at Austin.  
Stanford University.
- 1981 St. Louis University.  
Duke University.  
University of Michigan at Ann Arbor.  
Rice University.  
University of Texas at Houston.  
University of New Mexico, Albuquerque.
- 1982 University of Maryland.  
State University of New York at Stony Brook.  
University of Utah.  
Yale University.  
University of Illinois, Urbana.  
Washington University.
- 1983 Cornell University.  
Syracuse University.  
University of Arizona.  
Washington University.
- 1984 University of Pennsylvania.  
Honolulu Zoo.  
University of Hawaii (separate seminars to the Departments of Entomology, Genetics, and  
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Washington State University.  
University of California at Berkeley.  
University of North Carolina.  
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- 1985 University of Michigan.  
Kalamazoo College.
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University of Michigan (Human Genetics).  
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Texas A&M University, College Station.
- 1987 Syracuse University, New York.
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LaTrobe University, Bundoora, Australia.  
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- University of New England, Armidale, Australia.  
Flinders University, Adelaide, Australia.  
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Washington University, St. Louis.  
St. Louis University, St. Louis.  
Yale University, New Haven.
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University of Puerto Rico, Rio Piedras.  
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University of Michigan, Ann Arbor.
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AAZPA Conservation Academy, St. Louis  
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- 1993 University of Aarhus, Denmark  
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2000 Johns Hopkins University, Baltimore  
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Washington University School of Medicine  
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2001 Universidade do Porto, Portugal (3 seminars)  
University of Michigan Museum of Natural History  
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Rappaport Institute at the Technion Institute, Haifa, Israel (2 seminars)  
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University of Maryland, College Park, MD  
2002 University of Haifa, Institute of Evolution, Israel  
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Washington University (Dept. of Mathematics)  
2003 The Technion Institute, Haifa  
The Academy of Science, St. Louis  
The University of Guelph, Canada  
2004 Chulalongkorn University, Bangkok, Thailand  
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- 2005 University of Texas, Austin  
 Pharmacogenetics Research Network Retreat, Innsbrook, MO  
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 Instituto de Ecología, Xalapa, México  
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- 2006 University of Tel Aviv, Israel  
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 Lindenwood University, St. Charles, MO

#### INVITED SYMPOSIUM AND KEYNOTE SPEAKER

1973. An informational analysis of patet in Javanese gamelan music. Symposium on *New Methods in Musicology*, Annual Meeting of the Society of Ethnomusicology. Urbana, Illinois.
1975. Bad luck and good decisions in evolution. Symposium on *Probability and Decision Theory*. London, Ontario.
1976. Evolution vs. optimization in ecological genetics. Symposium on *Ecological Parameters of Population Genetics*, at the Annual Meeting of the Genetics Society of America. Salt Lake City, Utah.
1977. Genetic revolutions and control of insect populations. Symposium on *Biological Control and Evolutionary Processes*. Waco, Texas.

1978. Genetics of colonization and establishment of exotic species. Symposium on *Genetics in Relation to Insect Management*. Bellagio, Italy.  
Some possible relationships between rapid speciation, small effective size and breeding systems. Symposium on *The Dynamics of Speciation in Plants and Animals*. Tokyo, Japan.
1979. A new theory for speciation via the founder effect. Symposium on *Population Genetics*. The Annual *Drosophila* Meeting. Bloomington, Indiana.  
A new theoretical approach to life history strategies in plants. Symposium on *The Demographic Approach to Plant Population Genetics*. Meeting of the Genetics Societies of America and Canada. Edmonton, Alberta.  
The complexity of interspecific interactions. Symposium on *Interspecific Interactions*. Midwest Conference on Population Biology. Urbana, Illinois.
1980. Seed pools as an adaptation to randomly varying environments. *The Institute of Mathematical Statistics and Biometrics Society Satellite Conference*. Davis, California.  
The prophecies of parthenogenesis. Keynote address at *Symposium on Variation in Life Histories: Genetics and Evolutionary Processes*. Iowa City, Iowa.  
A genetic complex affecting aging and juvenile hormone in *Drosophila mercatorum*. Fund for Integrative Biomedical Research Conference on *Juvenile Hormone and Retinoic Acid: Their Possible Role in Aging*. Washington, D.C.
1981. Mechanisms of speciation: a population genetic perspective. *International Symposium on Mechanisms of Speciation*. Rome, Italy.  
Some rarely-told tales of Sickle-cell, and other adaptive stories. Symposium on *Perspectives on Evolution*, Joint Meeting of the Society for the Study of Evolution and The American Society of Naturalists. Iowa City, Iowa.
1982. Life history evolution under pleiotropy and K-selection in a natural population of *Drosophila mercatorum*. International Symposium on *Ecological Genetics and Evolution: The Cactus-Yeast-Drosophila Model System*. Oracle, Arizona.  
Use of recombinant DNA technology in population genetics. NIGMS Council Symposium on *New Views of Genetic Adaptation*. Bethesda, Maryland.  
A molecular view of the evolution of man. *Darwin Centenary Lecture Series*. Salt Lake City, Utah.  
The elimination of inbreeding depression in a captive herd of Speke's gazelle. Man and the Biosphere Symposium on *Applications of Genetics to the Management of Wild Plant and Animal Populations*. Washington, D.C.  
Life history evolution under pleiotropy and K-selection. International Symposium on *Theoretical Population Biology*. Edmonton, Alberta.  
The origin of species. *Origins Symposium Series*. University of Illinois, Urbana.
1983. The evolution of man: from molecules to morphology. Evolution '83 (a joint meeting of the Genetics Society of America, The American Society of Naturalists, The Society for the Study of Evolution, and the Stadler Symposium), St. Louis, Missouri.
1984. The molecular through ecological genetics of abnormal abdomen in *Drosophila mercatorum*. 25th Annual *Drosophila* Research Conference, Chicago, Illinois.  
Inbreeding vs. Outbreeding Depressions in Captive Populations. Conference on *Genetic Management of Captive Populations*, Front Royal, Virginia.  
Inferences on natural population structure from genetic studies on captive mammalian populations. Symposium on *Mammalian Dispersal Patterns*, American Society of Zoologists, Denver, Colorado.

1985. Genetic systems and evolutionary rates. Symposium on *Rates of Evolution*, Canberra, Australia.  
The relation between speciation mechanisms and macroevolutionary patterns. International Workshop Conference on *Evolutionary Processes and Theory*, Israel.  
Relation of humans to African apes: a statistical appraisal of diverse types of data. International Workshop Conference on *Evolutionary Processes and Theory*, Israel.  
Coadaptation and outbreeding depression. Second Conference on *Conservation Biology*, Ann Arbor, Michigan.  
Founder effects and the evolution of reproductive isolation. International Symposium on *Genetics, Speciation and the Founder Principle in Honor of Hampton L. Carson*, Honolulu, Hawaii.
1986. The molecular through ecological genetics of abnormal abdomen in *Drosophila*. 50th Anniversary Symposium of the Bureau of Biological Research at Rutgers, *A Molecular View of Evolution*. Piscataway, New Jersey.  
The measured genotype approach of integrating molecular and ecological genetics. *European Population Biology Conference*, Woudschoten, The Netherlands.  
The evolution of parthenogenesis in *Drosophila*. Symposium on *Parthenogenesis in Plants and Animals*. Finse, Norway.  
The proximate and ultimate control of aging in humans and *Drosophila*. Symposium on *Aging Processes in Animals*. Brookhaven National Laboratories, Upton, New York.
1987. The role of genetics in conservation biology. American Association of Zoological Parks and Aquariums Conference. St. Louis, Missouri.  
The meaning of species and speciation -- a genetic perspective. Symposium on *Speciation and Adaptation*. The Academy of Natural Sciences of Philadelphia.
1988. The measured genotype approach to quantitative and ecological genetics. Opening talk, Genetics Society of Australia Annual Meeting, Bundoora, Australia.  
Natural selection and rDNA in *Drosophila*. Symposium on *Molecular Biology of Natural Selection*, XVI International Congress of Genetics, Toronto, Canada.  
The genetic consequences of habitat fragmentation. 35th Annual Systematics Symposium on *Conserving Biological Diversity: Prospects for the 21st Century*. Missouri Botanical Garden.
1989. The ecological genetics of abnormal abdomen in *Drosophila mercatorum*. U.S./Australia Symposium on *Ecological and Evolutionary Genetics of Drosophila*. Armidale, Australia.  
Offsite breeding of animals and implications for plant conservation strategies. Center for Plant Conservation Symposium on *The Genetics and Population Biology of Rare Plants: Implications for Conservation and Management*. Missouri Botanical Garden.  
Habitat fragmentation: genetic problems and solutions. 58th Annual Meeting of the Genetics Society of America. Symposium on *Genetics of Conservation*. Atlanta, Georgia.  
Genetics and Conservation Biology. Symposium on *Conservation: a population biological approach*. Mainz, Federal Republic of Germany.
1990. Genetics and Conservation Biology. Millercomm90 Symposium Series on *Biodiversity*. University of Illinois, Urbana.  
Conservation Forensics. American Genetic Association Symposium. San Diego, California.
1991. Genetic Basis of Coronary Artery Disease in Humans. Diebold Symposium. Kalamazoo, Michigan.

- Genetics and Conservation Biology. Pew Symposium on *Ecology and Molecular Biology*. Princeton, New Jersey.
- Genetics and Conservation Policy: The Ivory Trade and the Endangered Species Act. World Ecology Day Symposium, International Center for Tropical Ecology, St. Louis.
1992. The Cohesion Species Concept. Can Founding Events Induce Speciation? Implementing the Cohesion Concept: Implications for Conservation Biology. Symposium on *Speciation and its Consequences*. Lund, Sweden.
- The Practical Implementation of the Cohesion Species Concept. Symposium on *Phylogenetic Analysis and Population Biology*. V International Symposium of the International Organization of Plant Biosystematists, St. Louis, Missouri.
- Implications of Coalescent Theory for Intraspecific Phylogeny Reconstruction (with Keith Crandall). Symposium on *Coalescent Theory and its Applications to Population Genetics and Phylogenetics*. Society for the Study of Evolution Annual Meeting, Berkeley, California.
- Gene Tree Overlay Algorithms: A Powerful Methodology for Studying Evolution. Symposium on *Evolution as a Computational Process*. Monterey, California.
- Translocation as a Conservation Tool. USDA Forest Service Symposium on *Biodiversity in Managed Landscapes*. Sacramento, California.
- Concepts of Species; and The Candidate Locus Approach to Quantitative Genetics. Gulbenkian Institute Symposium on *Basic Analytical Tools in Population Genetics and Evolution*, Oeiras, Portugal.
1993. Missouri Biodiversity: Processes and Patterns. Symposium on *Biodiversity Through Integrated Resource Management*. Missouri Forest, Fish and Wildlife Conference, Lake of the Ozarks, Missouri.
- A cladistic approach to quantitative genetic analysis. Gordon Research Conference on Quantitative Genetics. Ventura, California.
- Inbreeding: One Word, Several Meanings, Much Confusion. Symposium on *Conservation Genetics*. Sandbjerg, Denmark.
- Separating Population Structure from Population History. Symposium on *Molecular Evolution and Systematics*, Genetics Society of Canada, Quebec City.
- Theories of Speciation, a set of five, three-hour lectures for the "Andre Dreyfus Memorial Lectures on Evolution." University of São Paulo, São Paulo, Brazil.
- Habitat Restoration in the Ozarks. Symposium on *Conservation and Education*, Association of Zoological Horticulture Annual Meeting, St. Louis, Missouri.
- Mitochondrial Eve: what does mitochondrial DNA really tell us about recent human evolution? Sigma Xi Lecture Series, St. Louis, Missouri.
1994. Functional Properties of Biodiversity: Genetics and Population Structure. SCOPE/UNEP Biodiversity Synthesis Conference, Asilomar, California.
- What are Gene Trees and What Good Are They? A set of three lectures for the "Russell Marker Lectures in Evolutionary Biology." Pennsylvania State University.
- All About Eve: the Genetic Origins of Modern Humans. Winthrop Rockefeller Distinguished Lecture, University of Arkansas.
- Using the Evolutionary History of Small DNA Regions to Understand our Past and Our Present. National Association of Biology Teachers Convention, St. Louis, Missouri.
1995. The Genetics of Restoration: Reintroducing Collared Lizards on Restored Glade Habitats in the Ozarks. Federal Environmental Research Conference, Lubast, Germany.

- Cladistic Approaches to Identifying Determinants of Variability in Multifactorial Phenotypes and the Evolutionary Significance of Variation in the Human Genome. CIBA Foundation Symposium No. 197, *Variation in the Human Genome*. London.
- Cladistic Approaches to Identifying Determinants of Variability in Multifactorial Phenotypes. Wellcome Centre for Medical Science Symposium on *Variation in the Human Genome*. London.
- Genetic Diversity of Common Human Diseases. Brazilian Society of Genetics Symposium on *Diversidade Genética: Teoria, Prática e Ética*. Caxambu, Brazil.
- Abnormal Abdomen: A Developmental Syndrome on the Edge of Chaos. Keynote address at the symposium on *Evolution of Development: Molecules, Mechanisms, Phylogenetics*. Bodega Bay, California.
- The Use of Gene Trees in Studying Genotype/Phenotype Associations. Symposium on *Molecular Evolution* at the Annual Meeting of the Amer. Society of Agronomy, Crop Science Soc. of Amer., and Soil Sci. Soc. of Amer., St. Louis.
1996. Species and Speciation: Geography, Population Structure, Ecology, and Gene Trees. Symposium on *Speciation: Endless Forms*. Asilomar, California.
- Genetic Architecture: Getting to the Heart of the Matter. Presidential Address at the 50th Anniversary of the Founding of the Society for the Study of Evolution, St. Louis.
- On the Origins of Species. Plenary Lecture, Fifth International Congress of Systematic and Evolutionary Biology, Budapest.
- Microgeographical and ecological differentiation in tytoparthenogenetic capacity in *Drosophila mercatorum*. Symposium on *Geographical Parthenogenesis: A Model System in Evolutionary Ecology*. Fifth International Congress of Systematic and Evolutionary Biology, Budapest.
- The Evolution of Anatomically Modern Humans: What Do Gene Trees Really Tell Us? Symposium on *The Phylogeny of Life and The Accomplishments of Phylogenetic Biology*. Tucson, Arizona.
- Recent Human Evolution: The Other Side of the Story. Keynote Address, 30th Annual Isozyme Conference. Grenada.
1997. Nested cladistic analysis of candidate genes for phenotypic variation. Gordon Conference on Quantitative Genetics and Biotechnology. Ventura, California.
- A critique in the use of genetic data in analyzing human origins. Symposium on *Interpreting Patterns of Human Genetic Diversity*. 22nd Annual Meeting of the Human Biology Association. St. Louis, Missouri.
- The complexity of the genotype-phenotype relationship and the limitations of using genetic markers at the individual level. International Workshop on *Eugenic Thought and Practice: A Reappraisal Towards the End of the Twentieth Century*. Van Leer Institute. Jerusalem, Israel.
- Use of genetic data in analyzing human origins: the implications for racial groups. Fourth International Samuel L. Kountz Symposium. Washington, D.C.
- Smokey the Bear versus Collared Lizards: Landscape management in the Ozarks. George C. Wheeler Distinguished Lecturer. University of North Dakota, Grand Forks.
- Linkage disequilibrium in candidate gene regions. NIGMS Symposium on *Genetic Architecture of Complex Traits*. Bethesda, Maryland.
1998. Linkage mapping versus the candidate gene approach. Symposium on *Candidate Genes*. 6th World Congress on Genetics Applied to Livestock Production. Armidale, Australia.
- Landscape management: The collared lizard vs. Smokey the Bear. Conservation Forum. St. Louis, Missouri.

- Using gene trees to separate population structure from population history, *and* Using gene trees to define species under the cohesion species concept, *and* Biodiversity and Evolution. IV Eugene Warming Lectures in Evolutionary Ecology. Belo Horizonte, Brazil.
1999. Gene trees: a powerful tool for exploring the evolutionary biology of species and speciation. Symposium on *Plant Population Biology and Evolution: New Perspectives toward a New Century*. Kyoto, Japan.
- Human race in the context of recent human evolution. Wenner-Gren Symposium on *Anthropology in the Age of Genetics*, Teresopolis, Brazil.
- Coronary Artery Disease: Applying Evolutionary Principles to a Complex Human Disease. Zoological Society of Southern Africa, Pietersburg, South Africa.
- Using Gene Trees to Identify Species Through Testable Null Hypotheses. Zoological Society of Southern Africa, Pietersburg, South Africa.
- The role of evolution in understanding biological causation. Symposium on *Complexity Research & Biotechnology in Agriculture and Medicine*, Bozeman, Montana.
2000. Disrupting Evolutionary Processes. National Academy of Sciences Colloquium on *The Future of Evolution*. Irvine, California.
- Using phylogeographic analyses of gene trees to test species status. Symposium on *Phylogeography, Hybridization and Speciation*. Aussois, France.
- Human Races: Do They Exist? Brode Lecture, Walla Walla, Washington.
- The Evolution of Anatomically Modern Humans. Israel Pollak Distinguished Lecture. Haifa, Israel.
- The Evolution of HIV-1 Within Infected Subjects: Positive Selection in Context. Israel Pollak Distinguished Lecture. Haifa, Israel.
- The Impact of Fire Management on Habitat Fragmentation of Collared Lizards in the Ozarks. Symposium on *Landscape Effects of Animal Populations*, 27th Natural Areas Conference, St. Louis.
- The Biological Meaning of Race in Humans. American Anthropological Association Presidential Symposium on *Race falling, Racism rising*. 99th AAA meeting, San Francisco.
- Genotype to Phenotype: Disease Genes. Symposium on *Biochemical Systems Theory and Modeling in the Post-Genomic Era: Principles of Design to Designed Benefits*. Ann Arbor, Michigan.
2001. Out-of-Africa or In-and-out-of Africa: What Genes Tell us About Recent Human Evolution. Stigler Lectureship, University of Arkansas, Fayetteville.
- Out-of-Africa again and again: insights into human evolution over the last two million years from multiple genes. International Workshop on *Genome Organization, Diversity and Evolution*. Haifa, Israel.
- Tree Scanning: A New Method For Detecting Genotype/Phenotype Associations From DNA Sequence Data. International Workshop on *Genome Organization, Diversity and Evolution*. Haifa, Israel.
- Going beyond the genome: lessons from genetic studies on coronary artery disease. Danforth Symposium, St. Louis, Missouri.
- The impact of fire management on genetic isolation in collared lizards in the Ozarks. 2001 Savanna Review Symposium, Van Buren, Missouri.
2002. Do Races Exist in Humans? What Modern Genetics Tells Us. Holocaust Remembrance Day Symposium, Rappaport Institute, Haifa, Israel.
- Using Haplotype Trees for Phylogeographic and Species Inference in Fish Populations. Keynote address, Wakefield Symposium, Juneau, Alaska.



- Haplotype networks: new uses for an old technique. Society of Systematic Biology Symposium on *Visualizing complex phylogenetic patterns*. Urbana, Illinois.
- Out of Africa Again and Again: What Genes Tell Us About Recent Human Evolution. 4<sup>th</sup> Annual David Murdock-Dole Lectureship. Nobelforum, Stockholm, Sweden.
- Pleiotropy and epistasis as facilitators of the evolution of complex adaptations. Opening presentation at Symposium on Biotechnology and Complexity in Agriculture and Medicine. Mountain Sky, Montana.
- When does life begin? An evolutionary genetic answer to a central ethical question. Symposium on "The embryo from conception to birth: Scientific discovery, medical and ethical dilemmas" Tel Aviv, Israel.
2003. Evolution at a human candidate locus for arteriosclerosis. Symposium on "Challenges in Genetics in the 21<sup>st</sup> Century." Israel Society for Genetics, Tel Aviv, Israel.
2004. Genomics and clinical practice. Thai Physicians of America Association 45<sup>th</sup> Annual Scientific Congress. Bangkok, Thailand.
- 21<sup>st</sup> Century Genomics and Coronary Artery Disease." Keynote Address at Medax 2004, Tel Aviv, Israel
- The Evolution of Modern Humans: What Genes Really Tell Us. St. Louis Academy of Sciences Public Science Seminar Series.
- The Evolution of Modern Humans: What Genes Really Tell Us. Genetics Society of Australia, Melbourne.
- Simpson's Paradox in Complex Systems. Symposium on "Evidence based, opinion based and real world agriculture and medicine. Mountain Sky, Montana
2005. The Evolution of Humans Over The Last Two Million Years: Genes, Fossils, and Archaeology. Lorene Murrow Kelly Distinguished Lecturer, Austin, Texas
- Landscape Genetics On Different Scales of Space and Time: lessons from naked mole rats. XVII International Botanical Congress, Vienna, Austria
- Human Evolution Over the Last Two Million Years. Symposium on "Updating Human Evolution: Bringing Anthropological and Public Conceptions into Contemporary Perspective." Amer. Anthropol. Assoc. Annual Meeting, Washington DC.
2006. Founder Speciation: Mayr's Misunderstood Legacy to Speciation Theory. Symposium on "Speciation: The Enduring Legacy of Ernst Mayr." AAAS Annual Meeting, St. Louis.
- The Genetics of Complex Diseases. NIGMS Symposium on Complex Biological Systems, Friday Harbor, Washington.
- God of the Gaps versus Life is a Miracle: Two Perspectives on Evolution and Religion. Oxford Round Table on Science and Faith, Oxford, UK.
- Evolutionary Biology, Development, and Complex Diseases. Symposium on "Genes, Environments and Human Development, Health and Disease. Irvine, California.
- Human Evolution over the last two million years: genes, fossils and archaeology. Genetics Colloquium, University of Wisconsin, Madison
2007. Founder-induced Speciation. Symposium on "New Horizons in Evolutionary Biology." Institute of Evolution, University of Haifa, Israel.
- The Evolution of Man: Genetics, Fossils and Archaeology. Darwin Day 2007 Lecture, Oslo, Norway
- Integrating Landscape Genetics With Phylogeography: Lessons from Naked Mole Rats. Keynote Address, The Annual Meeting of the Swiss Zoological, Botanical and Mycological Societies, Zürich, Switzerland
- Has Human Evolution Stopped? Clinical Implications of a Negative Answer. Grand Rounds Lecture, Rambam Hospital, Haifa, Israel.

- Human Evolution Over the Last Two Million Years: Genes, Fossils and Archaeology. The Fulbright Distinguished Chair Lecture. Rappaport Institute, Haifa, Israel.
- A Population And Evolutionary Perspective On Movement Ecology. First International Conference on Movement Ecology. Institute for Advanced Studies, Jerusalem, Israel.
- The Impact of Fire on Collared Lizards in the Ozarks. Keynote Address, Israel Society for Ecology and Environmental Quality Sciences Annual Meeting, Weizmann Institute, Rehovot, Israel.
- Human Evolution Over the Last Two Million Years: Genes, Fossils and Archaeology. First Biological Evolution Workshop. Porto Alegre, Brazil.
2008. Human Evolution Over the Last Two Million Years: Genes, Fossils and Archaeology. Pesquisa FAPESP Symposium Series on the “Genomic Revolution.” São Paulo, Brazil.
- Evolution and Coronary Artery Disease. Pesquisa FAPESP Symposium Series on the “Genomic Revolution.” São Paulo, Brazil.
- Human Evolution Over the Last Two Million Years: Genes, Fossils and Archaeology. Keynote Address to the 54<sup>th</sup> Annual Meeting of the Brazilian Society of Genetics (Congresso Brasileiro de Genética), Salvador, Brazil.
- Statistical Testing of Phylogeographic Hypotheses. Symposium on “Statistical Phylogeography.” 54<sup>th</sup> Annual Meeting of the Brazilian Society of Genetics (Congresso Brasileiro de Genética), Salvador, Brazil.
- The Linguistics of Race. Public Symposium Talk at the SciFest08 International Science Festival, St. Louis, Missouri.
2009. On the Origin of Species: A 21<sup>st</sup> Century Perspective on Species and Speciation. Darwin Anniversary Symposium, Missouri Botanical Garden, St. Louis, Missouri.
- Using Evolutionary Principles to Identify Genes Associated with Common Diseases in Humans, and Evolutionary Biology and Conservation Biology: Using Evolutionary Principles to Save Endangered Species. International Workshop on Darwinism and Functional Biology, Other Sciences and the Humanities. Be'er Sheva and Jerusalem, Israel.
- The impact of prescribed forest fires on the dispersal behavior of collared lizards. Keynote Address, Merav Ziv Symposium on Animal Behavior and Conservation Biology. Sde Boqer, Israel.
- The Nature of Inference in Statistical Phylogeography. Inaugural lecture in the series “Frontiers of Ecology and Evolution”, Institute of Ecology, Mexico City, Mexico
- On the Origin of Species: Species in the 21<sup>st</sup> Century. Public lecture series for “Darwin’s Year”, National Autonomous University of Mexico, Mexico City.
- On the Origin of Species: Species in the 21<sup>st</sup> Century. Keynote talk. Symposium on “Evolution and Cytogenetics”, University of São Paulo, Piracicaba, Brazil.
2010. Smokey the Bear Versus the Collared Lizard: The Role of Prescribed Fires in Restoring Glade Communities in the Ozarks. Public Talk sponsored by The Nature Conservancy, St. Louis, Missouri.
- Evolution and Medicine. Public Lecture sponsored by the St. Louis Science Center, St. Louis, Missouri.
- God of the Gaps versus Life is a Miracle: A Jewish Perspective on the Evolution/Creationism Debate. Public Lecture sponsored by Shaare Zedek Synagogue, St. Louis, Missouri.
- Temporal changes in population genetic dynamics in response to habitat fragmentation and restoration by prescribed woodland fires in the eastern collared lizard.

Symposium on "Conservation Genetics" at the 37<sup>th</sup> Natural Areas Conference, Osage Beach, Missouri. Organizer and moderator of symposium.

2011. Phylogenetic approaches to species identification. Symposium on "Evolution and Population Genetics" at the 6<sup>th</sup> Ilanit/FISEB meeting, Eilat, Israel.

Do Biological Races Exist in Humans? Symposium on "Is There Space for Race in Evolutionary Biology?" 2011 Spring Conference for the Bay Area Biosystematists, San Francisco, California.

Panel Discussant. The Genetics of Migrant and Isolate Populations. Second Sheba Conference, Hertzliya, Israel.

Tikkun Olam: Research on Human Diseases and Endangered Species in Israel. Beyond Brookings Symposium on Research Connections Between Washington University and Israel. St. Louis, Missouri.

## GRADUATE TRAINEES

### PAST TRAINEES

1. Joan Strassmann  
Predoctoral Student  
1974-1979

B.S. Zoology, University of Michigan, 1974

Thesis: Kin Selection and the Population Biology of the Social Paper Wasp, *Polistes exclamens*

Current Position: Professor of Biology, Washington University

2. Dale Lewis  
Predoctoral Student  
1975-1980

B.S. Zoology, University of Michigan, 1975

Thesis: Population Biology of a Communal Bird Species, *Plocepasser mahali*

Current Position: Programme Officer, Wildlife Conservation Society in Zambia

3. Scott Williams  
Predoctoral Student  
1976-1981

B.A., Biology University of Chicago, 1976

Thesis: Implications of life history changes for genetic polymorphisms

Current Position: Professor of Molecular Physiology and Biophysics, Vanderbilt University, Vanderbilt Medical Center

4. Rob DeSalle  
Predoctoral Student  
1979-1984

B.A., Biology University of Chicago, 1978

Thesis: Mitochondrial DNA evolution and phylogeny in the *planitibia* subgroup of Hawaiian *Drosophila*.

Current Position: Curator of Entomology, American Museum of Natural History

5. Teresa Crease

Predoctoral Student

1981-1986

B.S., Biology, University of Windsor, Canada, 1980

Thesis: Mitochondrial DNA Variation In Populations of *Daphnia pulex* Leydig Reproducing By Obligate and Cyclic Parthenogenesis

Current Position: Professor, Department of Integrative Biology, University of Guelph, Guelph, Ontario, Canada

6. Scott Davis

Predoctoral Student

1982-1986

B.A., Biology Baylor College, Waco, TX, 1981

Thesis: Population Structure and Patterns of Speciation in *Geomys* (Rodentia: Geomyidae): An Analysis Using Mitochondrial and Ribosomal DNA

Current Position: Head, Biotech IP Licensing and Investment Division, Exeter Life Sciences, Austin, TX

7. Christopher Phillips

Predoctoral Student

1984-1989

B.S., Environmental Biology/Zoology Eastern Illinois University, 1983

Thesis: Breeding Pond Fidelity, Population Structure and Phylogeography in the Spotted Salamander, *Ambystoma maculatum*

Current Position: Curator of Amphibians and Reptiles, Illinois Natural History Survey

8. Linda Park

Predoctoral Student

1984-1989

B.S., Biology/Genetics Cornell University, Ithaca, NY, 1983

Thesis: Evolution in the *Repleta* Group of *Drosophila*: A Phylogenetic Analysis Using Mitochondrial DNA

Current Position: Program Manager of the Genetics and Evolution Program, Northwest Fisheries Science Center, NOAA Fisheries Service, Seattle, WA

9. Eric Routman

Predoctoral Student

1985-1990

B.S., Biology Indiana University of Pennsylvania, 1982

M.S., Biology University of Nebraska-Lincoln, 1984

Thesis: Paedomorphosis and Population Structure in the Salamanders *Cryptobranchus alleganiensis* and *Ambystoma tigrinum*

Current Position: Professor of Biology, San Francisco State University

10. Hope Hollocher

Predoctoral Student

1986-1991

B.A., Biology University of Pennsylvania, Philadelphia, 1983

Thesis: The Evolutionary Dynamics of the Y Chromosome With Respect to the *abnormal*

*abdomen* Syndrome in a Natural Population of *Drosophila mercatorum* Near Kamuela, Hawaii  
Current Position: Clare Boothe Luce Professor, Notre Dame University

11. Susan Lawler

Predoctoral Student

1986-1992

B.A., Biology/Religious Study Grinnell College, Grinnell, Iowa, 1985

Thesis: Ecological Genetics of the *bobbed* Syndrome in *Drosophila hydei*

Current Position: Head of Department/Senior Lecturer of Environmental Management and Ecology, La Trobe University, Wodonga, VIC, Australia

12. Kerry Shaw

Predoctoral Student

1987-1993

B.A., Biology Princeton University, 1986

Thesis: The Evolution of Song Groups in the Hawaiian Cricket Genus *Laupala*

Current Position: Professor, Department of Neurobiology & Behavior, Cornell University

13. Keith Crandall

Predoctoral Student

1989-1993

B.A., Biology/Mathematics Kalamazoo College, 1987

M.A., Statistics Washington University

Thesis: Molecular Systematics and Evolutionary Biology in the Crayfish Subgenus *Procericambarus* (Decapoda: Cambaridae)

Current Position: Thomas L. Martin Professor of Biology & Chair of the Department, Brigham Young University, Provo, Utah

14. Anne Gerber

Predoctoral Student

1989-1994

B.A., Art History, Smith College, Northhampton, MA. 1985

Thesis: The Semiotics of Subdivision: An Empirical Study of the Population Structure of *Trimerotropis saxatilis* (Acrididae)

Current Position: Senior Property Manager, Sterling Acceptance Co., and Self-employed Entrepreneur and Paper Investor, Atlanta, Georgia

15. Marshal Hedin

Predoctoral Student

1990-1995

B.A., Zoology Humboldt State University, Arcata, California, 1987

M.S., Genetics Texas A&M University, College Station, Texas, 1989

Thesis: Speciation and Morphological Evolution in Cave Spiders (Araneae: Nesticidae: *Nesticus*) of the Southern Appalachians

Current Position: Professor of Biology, San Diego State University

16. Paul Wilson

Predoctoral Student

1990-1996

B.A., Biology Lafayette College, Easton, PA, 1989

Thesis: Mitochondrial DNA Variation and Biogeography Among Some Etheostomid Darters of the Central Highlands

Current Position: Assistant Professor of Biology, East Stroudsburg University of Pennsylvania

17. Delbert Hutchison

Predoctoral Student

1991-1997

B.A., Zoology Brigham Young University, Provo, UT, 1990

Thesis: Population Genetic Consequences of the Holocene Invasion of the Ozarks and Flint Hills by the Eastern Collared Lizard (*Crotaphytus collaris collaris*) with Subsequent Habitat Fragmentation

Current Position: Associate Professor and Chair, Biology Department, Whitman College, Walla Walla, WA

18. Laura Langton (Bischof)

Predoctoral Student

1991-1998

B.S., Biology Lewis and Clark College, Portland, OR, 1988

M.S., Biology Portland State University, Portland, OR, 1990

Thesis: Molecular Systematics and Horn Evolution in the Antilopinae (Mammalia: Bovidae)

Current Position: Research Development Manager, Washington University, St. Louis, MO

19. Reinaldo Alves de Brito

Predoctoral Student

1994-1999

B.S., Biology Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, 1990

M.S., Genetics Univeridade de São Paulo, Ribeirão Preto, Brazil, 1993

Thesis: Separating Historical from Ecological Forces Shaping the Evolution of the Cactophilic Fruit Flies *Drosophila serido* and *D. buzzatii*

Current Position: Associate Professor, Universidade Federal de São Carlos, São Carlos, SP, Brazil

20. Anton Weisstein

Predoctoral Student

1995-1999

B.A., Chemistry, Mathematics Washington University, St. Louis, 1993

Thesis: Patterns of HIV-1 evolution in individuals with differing rates of CD4 T cell decline

Current Position: Associate Professor, Truman State University, Kirksville, Missouri

21. Keri Shingleton (Williamson)

Predoctoral Student

1993-2001

B.A., Biology, Grinnell College, Grinnell, Iowa, 1992

Thesis: Population structure and evolutionary history of a cave-adapted planthopper in the Hawaiian Islands

Current Position: Head of Biology, Holland Hall, Tulsa, Oklahoma

22. Melissa Kramer  
Predoctoral Student  
1997-2001  
B.S., Biology, The Pennsylvania State University, University Park, Pennsylvania, 1995  
Thesis: Microevolutionary forces affecting the incidence of parthenogenesis in *Drosophila mercatorum*  
Current Position: Research Scientist, U.S. Environmental Protection Agency, Washington, D.C.
23. Jennifer Brisson  
Predoctoral Student  
1998-2004  
B.A., Biology, Kansas State University, 1997  
Thesis: Evolution and Developmental of Abdominal Pigmentation in the *cardini* group of *Drosophila*  
Current Position: Assistant Professor, School of Biological Sciences, University of Nebraska, Lincoln, Nebraska
24. Jared Strasburg  
Predoctoral Student  
1998-2004  
B.S., Life Sciences, University of Missouri at Rolla, 1997  
Thesis: Comparative Phylogeography and Conservation Genetics in Two Lizard Species  
Current Position: Postdoctoral Research Associate, Indiana University
25. Jon Hess  
Predoctoral Student  
2000-2004  
B.S., Biology, Denison University; Granville, OH, 1998  
Thesis: A Population Genetic Study of the Eusocial Naked Mole-Rat *Heterocephalus glaber*.  
Current Position: Conservation Geneticist, Columbia River Inter-Tribal Fish Commission. Portland, Oregon
26. Rosemarie Koch  
Predoctoral Student  
2000-2004  
M.S., Physiological Ecology of Animals, University of Tuebingen, Germany, 1999  
Thesis: Hormonal control of dispersal behavior in naked mole rats  
Current Position: filmmaker and journalist, Marco Polo Films, an animal film production company, Heidelberg, Germany.
27. Taylor Maxwell  
Predoctoral Student  
2001-2006  
B.A., Biology. Brigham Young University, Provo, Utah, 2000  
Title of Research Project: Applications of evolutionary theory to genotype/phenotype association studies  
Current Position: Assistant Professor, University of Texas School of Public Health, Houston

28. Corey Anderson  
Predoctoral Student  
2001-2006

B.A., Integrative Biology, University of California at Berkeley, 1997

Title of Research Project: Landscape genetics and landscape ecology of a local timber  
Rattlesnake population

Current Position: Assistant Professor of Biology, Valdosta State University, Georgia

29. Sharlee Climer

Predocctoral Student (co-advisor with Weixong Zhang, Dept. of Computer Science & Engineering)  
2005-2006

M.S., Computer Science, University of Missouri, St. Louis, 2001.

Title of Research Project: Novel search strategies that exploit bounds with applications in  
engineering and biology

Current Position: Research Faculty, Department of Computer Science and Engineering,  
Washington University

30. Michele Johnson

Predocctoral Student  
2005-2007

B.A., Biology, Wake Forest University, 2001

Title of Research Project: Behavioral Ecology of Caribbean *Anolis* Lizards: A Comparative  
Approach

Current Position: Assistant Professor, Department of Biology, Trinity University, San Antonio,  
Texas

31. Jennifer Neuwald

Predocctoral Student  
2002-2008

M.S., Biology. San Diego State University, California, 2002

Title of Research Project: Temporal changes in population genetic dynamics of the Eastern  
Collared Lizard, *Crotaphytus collaris collaris*, in response to forest fire management.

Current Position: Postdoctoral Research Associate, Iowa State University

32. Nicholas W. Griffin

Predocctoral Student  
2004-2010

B.A., Biology. Whitman College, Walla Walla, WA 2002

Title of Research Project: Inbreeding depression and competition in the square-stemmed  
monkeyflower (*Mimulus ringens*)

Current Position: Postdoctoral Research Associate, Washington University School of Medicine

### **Current Graduate Trainees**

33. Amy Conley

Predocctoral Student  
2008-present



B.A. Biology. Rice University, Houston, Texas. 2005.

Title of Research Project: The genetic impact of translocations in collared lizard populations in the Missouri Ozarks

34. Carlo Lapid

Predocctoral Student

2008-present

M.S. Molecular Biology and Biotechnology. University of the Philippines, Diliman. 2007.

Title of Research Project: Integrating structural and physicochemical context into improved codon substitution models for the detection of positive selection

35. Vitus Wagner

Predocctoral Student

2008-present

B.A., Biology. Whitman College, Walla Walla, WA 2005

Title of Research Project: The impact of microbial community assembly history and diet on the gut microbiota

#### POSTDOCTORAL TRAINEES

#### PAST TRAINEES

1. L. Val Giddings

Postdoctoral Fellow

1980-1984

B.S., Zoology, Brigham Young University, Provo, UT

Ph.D., Genetics, University of Hawaii, Honolulu, HA, 1980

Research in lab: Parthenogenesis in *Drosophila mercatorum*: Evolution of pre-mating isolation asymmetries

Current Position: Vice President, The Biotechnology Industry Organization

2. John C. Patton

Postdoctoral Fellow

1984-1988

Ph.D., Texas Tech University, Lubbock, 1978

Research in lab: Population genetics of *Peromyscus* species

Current Position: Research Scientist, Department of Forestry and Natural Resources, Purdue University

3. Chris Simon

Postdoctoral Fellow

1984-1985

Ph.D., SUNY, Stony Brook, NY, 1982

Research in lab: Evolution of Periodic Cicadas

Current Position: Professor, University of Connecticut, Storrs, CT

4. Sydney A. Cameron

Postdoctoral Fellow

1987-1992

Ph.D., University of Kansas, Lawrence, 1985

Research in Lab: Genetic structure of hybridizing bumble bees; molecular phylogeny of bumble bees; evolution of eusociality in bumble bees

Current Position: Professor of Entomology, University of Illinois, Champaign-Urbana

5. Christopher Phillips

Postdoctoral Fellow

1989-1991

Ph.D., Population & Evolutionary Biology, Washington University, 1989

Research in lab: Phylogeography of salamanders and lizards in the Ozarks

Current Position: Curator of Amphibians and Reptiles, Illinois Natural History Survey

6. Nicholas Georgiadis

Postdoctoral Fellow

1991-1995

Ph.D., Ecology & Evolutionary Biology, Syracuse University, 1991

Research in lab: Phylogeography of ungulates in Africa

Current Position: Director, Bole and Klingenstein Foundation, Cody, Wyoming

7. Stan Braude

Postdoctoral Fellow

1993-1997

Ph.D., Ecology & Evolutionary Biology, University of Michigan, Ann Arbor, 1991

Research in lab: Genetic population structure of naked mole rats

Current Position: Adjunct Associate Professor, Washington University

8. Sergio Matili

Postdoctoral Fellow

1993-1996

Ph.D., Genetics, Universidade de São Paulo, Brazil, 1993

Research in lab: Quantitative trait loci in *Drosophila mercatorum*

Current Position: Associate Professor, Universidade de São Paulo, Brazil

9. Xiaofeng Fan

Postdoctoral Fellow

2007

M.D., 1987, Ph.D. 1995, Viral Immunity, Nanjing Medical University, China

Research in lab: Mechanisms for hepatitis C virus relapse in antiviral therapy

Current Position: Assoc. Res. Prof, Dept. of Internal Medicine, St. Louis University

## **CURRENT TRAINEES**

10. Lior Blank

Postdoctoral Fellow

2010 – present

Ph.D. 2009.

