

PETER E. SMOUSE

Department of Ecology, Evolution & Natural Resources
School of Environmental and Biological Sciences
Rutgers - the State University of New Jersey
New Brunswick, NJ 08901-8551
PH: 848-932-1124; FAX: 732-932-2587
smouse@aesop.rutgers.edu

EDUCATIONAL & PROFESSIONAL HISTORY

- 1960-65 B.S. in Forestry from University of California, Berkeley
- 1965-70 Ph.D. in Genetics from North Carolina State University, Raleigh
- 1967-69 Teaching Assistant in Genetics, North Carolina State University
- 1970-72 Postdoc in Zoology, University of Texas, Austin
- 1972-76 Asst. Professor of Human Genetics, University of Michigan, Ann Arbor
- 1976-83 Assoc. Professor of Human Genetics, University of Michigan
- 1983-89 Professor of Human Genetics, University of Michigan
- 1984-85 Visiting Prof. - Demographic & Population Genetics, Univ. Texas, Houston
- 1985-89 Professor of Biology, University of Michigan
- 1989-96 Professor-II, Dept. Marine and Coastal Sciences, Rutgers University
- 1989-13 Professor-II, Inst. Marine and Coastal Sciences, Rutgers University
- 1989-97 Assoc. Director, Center for Theoret. & Applied Genetics, Rutgers University
- 1993-95 Associate Dean, Graduate School - New Brunswick, Rutgers University
- 1995-96 Acting Associate Provost - New Brunswick, Rutgers University
- 1996-13 Professor-II: Ecology, Evolution & Natural Resources, Rutgers University
- 1997-01 Chair - Ecology, Evolution & Natural Resources, Rutgers University
- 2004 Visit. Research Scientist, Inst. Natl. Invest. Agric. & Aliament., Madrid, Spain
- 2007 Fellow, Institut. Advanced Studies, Hebrew Univ., Jerusalem, Israel
- 2013-14 Distinguished Prof., Inst. Marine and Coastal Sciences, Rutgers University
- 2013- Distinguished Prof., Dept. Ecology, Evolution & Natural Resources, Rutgers Univ.

SCHOLARSHIPS, HONORS AND AWARDS

- 1960-61 California Alumni Scholarship, University of California
- 1960-65 California State Scholarship, University of California
- 1964 Xi Sigma Pi (National Honor Society)
- 1965-68 NASA Predoctoral Trainee, North Carolina State University
- 1967 Phi Kappa Phi (National Honor Society)
- 1968-70 NSF Predoctoral Fellowship, North Carolina State University
- 1970-72 NSF Postdoctoral Fellowship, University of Texas
- 1980 Faculty Recognition Award, University of Michigan
- 1996-97 Botany Fellow, Australian National University
- 2000 Robert L. Kendall Best Paper Award, American Fisheries Society
- 2004 Spanish Foreign University Professor & Researcher Award
- 2006 Excellence in Graduate Teaching Award, Rutgers University
- 2006 Team Teaching Award, ANU College of Science, Canberra, Australia

PROFESSIONAL SERVICE

- 1978 NIGMS Consultant: Committee on Quant. Genetics and Common Diseases
- 1979-82 Associate Editor: Theoretical Population Biology
- 1980-83 NSF Review Panel: Population Biology and Physiological Ecology
- 1981 NIH Study Section: Mammalian Genetics
- 1987-89 Associate Editor: Evolution
- 1988-91 Editorial Board: International Journal of Quantitative Anthropology
- 1990 NRC Ad Hoc Committee: Endangered Amphibians of High Elevations
- 1990-92 Associate Editor: Journal of Heredity
- 1992 NIH/NSF/DoE: 2nd Workshop, Human Genome Diversity Project
- 1994-96 Council of the American Genetic Association
- 1994 Sloan/NSF Workshop: Emerg Relev of Evol Biol to Appl Probl & Oppor
- 1995-98 NY State Forensic Commission, DNA Subcommittee
- 1995-98 US National Committee, International Union of Biological Sciences (IUBS)
- 1998 Scientific Review Panel, Columbia Environmental Institute (CEI)
- 1998 Advisory Board, Cooperative Institute of Fish. Molec. Biology (FISHTEC)
- 1998 NRC / Howard H. Hughes Doctoral Award Panel
- 1998-99 NSF Population Biology Panel, Dissertation Grants
- 1998-05 NJ Higher Education Partnership for Sustainability, Steering Comm. (1998-06), VP (2000-01), Green Design Team (2002-04), Strategic Planning Comm. (2003)
- 2000-03 Review Board: Molecular Ecology
- 2000-03 NRC Committee on Atlantic Salmon in Maine
- 2001 Advisory Board, Dept. Ecology & Evolutionary Biology, Columbia University
- 2001-04 Steering Committee, New Jersey Solid Waste Policy Group
- 2001- Advisory Board, The Land Institute, Salina, Kansas
- 2003 NIGMS Special Study Section
- 2004-07 Technical Dispute Settlement Board, Pacific Salmon Commission
- 2005-10 Independent Scientific Advisory Board, NW Power & Conservation Council
- 2006 NIH Study Section on Genetic Variation and Evolution
- 2008 External Review Team, Natural Science Department, Baruch College, CUNY
- 2015 NESCent Working Group: Advan. Genetic Diver. Resear. Indian & Pacific Oceans
- 2017 USBG Working Group: Risks, Rewards Sourcing Native Plants for Restoration

FIELD EXPERIENCE

- 1962 Time and motion studies of logging operations, Oregon, US
- 1965-69 Taxonomic work on pines, Atlantic coastal states, US
- 1976 Anthropological genetic studies of rain forest tribes, Brazil
- 1983 Anthropological genetic studies of highland tribes, Papua New Guinea
- 1990 Oceanographic studies of hydrothermal vents, Gulf of California
- 2000 Taxonomic work on Atlantic white cedar, Gulf coastal US
- 2003 Forest genetic survey in tropical dry forest, Guanacaste, Costa Rica
- 2008 Pitch pine provenance trials, New Jersey, US

GRANT HISTORY (Total = \$2,279,397, my part only)

- DoE-E (11-1)-2828: *Study of Human Mutation Rates*, JV Neel (PI); \$180,000 (my part), 15% effort (1972-78)
- NSF-BMS-74-11823: *Studies of Mutation and Selection in Amerindian Tribes Residing in the Tropics*, with JV Neel (PI) and RS Spielman; \$60,000 (my part), 15% effort (1974-76)
- NIMH-1-R01-MH-28294: *Neuroendocrine Classification of Depressed Patients*, with BJ Carroll (PI), GC Curtis, MP Feinberg; \$135,000 (my part), 15% effort (1976-79)
- NSF-DEB-76-04192: *Ecological Selection in Haploid Populations*, \$76,000, 40% effort (1976-79)
- NSF-DEB-78-23295: *Population Genetics of Tropical Amerindians*, with HW Mohrenweiser and JV Neel; \$116,000 (my part), 25% effort (1979-82)
- NSF-DEB-79-10490: *Studies of Ecological Selection in Haploid Populations*; \$99,000, 30% effort (1980-83)
- NIH-GM-30135: *Genetic Demography of Tribal Populations*, with JW Wood; \$69,000, 25% effort (1982-84)
- NIH-GM-32589: *Genetic Analysis of Cryptic Subdivision*, \$174,000, 40% effort (1985-88)
- DE-AC02-ER60089: *Studies of Human Mutation Rates*, with JV Neel (PI) and HW Mohrenweiser; \$156,000 (my part), 10% effort (1986-89)
- NJAES-32102/USDA: *Population Studies of Multiple-Locus Genetic Structure*, \$249,000, 50% effort (1989-93)
- NSF-BSR-90-06589: *Phenotypic, Genotypic and Ecological Determinants of Reproductive Success in Natural Populations*, with TR Meagher; \$50,000 (my part), 20% effort (1990-93)
- NOAA-50ABNF-000107: *A Proposal to Develop Mixture Analysis Software for Source Population Determination of Anadromous Salmon where only Allele Frequency Data are Available*; \$40,000, 10% effort (1990-91)
- Sloan Foundation: *A Cross-Disciplinary Public Events Effort by the Program in Applied Genetics and Evolution*, with TR Meagher; \$30,000-Sloan, \$52,000-Rutgers match, 5% effort (1991-95)
- NSF-BSR-91-15764: *Symposium: Molecular & Mathematical Approaches to Genealogical Analysis & Strain Identification*; with TR Meagher (PI); \$8,000, 5% effort (1991-92)
- Rockefeller-GA-AS-9234: *Symposium: Molecular Genetics of Plant-Microbe Interactions*, with BI Hillman (PI), BA Zilinskas, & JL Snow, and PR Day; \$10,000, 5% effort (1992-93)
- NSF-IBN-92-24157: *Symposium: Molecular Genetics of Plant-Microbe Interactions*, with BI Hillman (PI), BA Zilinskas, PR Day; \$6,000, 5% effort (1992-93)
- USDA/McIntire-Stennis-17309: *Two-Generation Analysis of Propagule Flow in Forest Tree Species*, \$60,000, 22% effort (1999-2002)
- NSF-DEB-0089238: *Collaborative Research: Landscape Patterns of Pollen Movement in Declining Populations of California Valley Oak, Quercus lobata*, with VL Sork (PI), F Davis, \$114,000 (my part), 25% effort (2001-04)
- Geraldine R. Dodge Foundation: *NJHEPS Sustainable Campus Initiative*, with D Wheeler (PI), C Peterson, and J Quigley, \$125,000, 5% effort (2001)
- EPA: *A Pilot Project to Tie Procurement to Solid Waste Reduction*, with DA Derr (PI), PE Hayes, CJ Andrews and K Lyons, \$37,777, 5% effort (2002).
- NSF-DEB-0211430: *Collaborative Research: Spatially and Temporally Explicit Breeding Structure Analyses for a Tropical Dry-Forest Tree Species, Enterolobium cyclocarpum*, with JL Hamrick (PI), \$160,000 (my part), 20% effort (2002-07)
- NJAES/USDA-17111: *A Common Garden Trial for Pitch Pine*, \$5,000, 5% effort (2008)

GRANT HISTORY (continued)

NSF-DEB-0514956: *Collaborative Research: Seed-Flow in Valley Oak - New Approaches to an Old Problem*, with VL Sork, \$272,620 (my part), 20% effort (2005-2012)

SYMPOSIA AND WORKSHOPS ORGANIZED OR DELIVERED

Ecological & Demographic Aspects of Population Structure, Central States Anthropology Society (1980)

Convergent Questions in Genetics and Demography, University of Michigan Population Studies Center (1988)

Molecular and Mathematical Approaches in Genealogical Analysis and Strain Identification, Program in Applied Genetics & Evolution, Rutgers University (1992)

Molecular Genetics of Plant-Microbe Interactions, Program in Applied Genetics & Evolution and AgBiotech Center, Rutgers University (1993)

Population Genetics & Spatial Analysis, Division of Botany & Zoology, Australian National University (1996, 98)

Geostatistics, Department of Ecology, Evolution & Natural Resources and Center for Remote Sensing & Spatial Analysis, Rutgers University (1998)

Green Building & Design, NJ Higher Education Partnership for Sustainability, Princeton University (2001)

Genetic Analysis for Population Studies, Division of Botany & Zoology, Australian National University, Canberra ACT, Australia (2001)

Master Class Workshop on Sustainability Teaching, New Jersey Higher Education Partnership for Sustainability, NESEA Annual Meeting, Newark, New Jersey (2002)

Population Genetics in Excel, Unidad Genética Forestal, INTA-Bariloche, AR (2005)

Teaching Evolution at Rutgers, Rutgers University, New Brunswick, New Jersey (2006)

Population Genetic Analysis in Excel, Division of Botany & Zoology, Australian National University, Canberra ACT, Australia (2006)

Methods and Statistics for Genetical Analysis (GenAlEx), INTA-Castelar, Buenos Aires, Argentina (2006)

Spatial Genetics, Universidad de Comahue, Bariloche, Argentina (2007)

Genetic Analysis for Population Studies, Division of Botany & Zoology, Australian National University, Canberra ACT, Australia (2009)

Molecular Marker Analysis of Plant Population Structure and Processes, Danish Centre for Forest, Landscape & Planning, University of Copenhagen, Copenhagen, Denmark (2011)

Genetic Analysis for Population Studies, Division of Botany & Zoology, Australian National University, Canberra ACT, Australia (2013)

Genetic Analysis for Population Studies, Universidad de Costa Rica, San José, CR (2014)

TEACHING HISTORY

Principles of Human Genetics (HG514), a graduate course (1972-73, 80-83, 85-86): team taught (15-20 hrs.), (1974-79): sole responsibility (40 hours) - Univ Michigan

Genetics and Society (HG324), undergraduate non-majors course (1974-75, 77-78): team taught (18 hours) - Univ Michigan

TEACHING HISTORY (continued)

Medical Genetics (HG507), a specialized course for medical students (1982-83, 85): team taught (6 hours) - Univ Michigan
Human Population Genetics (HG515), population and epidemiologic genetics (1973, 75): team taught (20 hours) - Univ Michigan
Human Molecular, Cellular and Population Genetics (HG542), a second core course (1988): team taught (14 hours) - Univ Michigan
Principles of Population Genetics (BIO490), a Senior-level introduction (1979, 84, 88): sole responsibility (40 hours), (1986, 87): team taught (20 hours) - Univ Michigan
Seminar in Mathematical Genetics (BIO803), a graduate seminar (1978, 80): co-leader (6 hours) - Univ Michigan
Population Genetics (E&E513), a graduate course; 1993, 98 (20 hours), 1991, 2000, 2002, 2005 (42 hours), 2007-08, 2010, 2012 (56 hours) - Rutgers Univ
Multivariate Analysis in Population Biology (E&E575), a graduate course; 1999: team taught (12 hours) - Rutgers Univ
Topics in Mathematical Modeling of Population Biology (E&E600), a graduate course; 1989, 98: team taught (20 hours) - Rutgers Univ
Quantitative Genetics (E&E603), a graduate tutorial on breeding and natural population quantitative genetics; 1992: team taught (12 hours) – Rutgers Univ
Current Concepts in Ecology & Evolution (E&E604), a graduate survey course; 2000: team taught (12 hours) – Rutgers Univ
Principles of Evolution (ENR486), an undergraduate introductory course for seniors; 2001-03, 2005-06, 2008-17: (42 hours) – Rutgers Univ
Concepts in Evolution (E&E597), a graduate-level immersion course on a trio of evolutionary topics; 2001-06: team taught (30 hours), 2007-08,11 (spot lectures) – Rutgers Univ
Quantitative Methods in Population Genetics (90115), an advanced-level graduate course, 2007: team taught (30 hours) – Hebrew University of Jerusalem, Israel

COMMITTEE AND ADMINISTRATIVE SERVICE

UNIVERSITY OF MICHIGAN

Departments of Human Genetics & Molecular Evolution - Population Genetics

1976-79	Preliminary Examination Committee
1976-83	Curriculum Committee, Chair (1977-78)
1978-83	Equipment Committee
1983-89	Graduate Training Committee, Chair
1986-89	Molecular Evolution - Population Genetics Program, Co-Director
1988-89	MEPG Preliminary Exam Committee, Chair

Medical School & University

1980-83	Biomedical Research Council
1983-84	Computer Advisory Committee
1983-89	Genetics Training Grant Executive Committee

Medical School & University (continued)

1986 Graduate School Fellowship Committee
1988-89 Faculty Senate

RUTGERS UNIVERSITY

Ecology and Evolution Graduate Program

1989-91 Bylaws Committee
1990-93 Admissions Committee
1992-93,03 Nominating Committee
2000-02 Executive Committee
2007-12 Academic Standing Committee, Chair
2007-12 Executive Committee
2008-12 Nominating Committee

Department of Ecology, Evolution & Natural Resources

2001,04 EENR - FASIP, Peer Evaluation Committee
2002-03 Natural Resource Management Curriculum Coordinator
2003,08 EENR - Space Committee
2004-05 Curriculum Committee, Chair
2008 Executive Committee
2017 EENR - FCP, Peer Evaluation Committee, Chair

School of Environmental & Biological Sciences

1990-91 Ad Hoc Computer Committee
1991 Search Committee - Biotechnologist
1992 Search Committee - Entomologist
1992-93 George H. Cook Honors Committee
1993 Search Committee - Animal Scientist
1994 Search Committee - Molecular Evolutionist
1994-96 PhytoTech Oversight Committee
1994-98 Biodiversity Committee
1994-96 White-Stevens Fellowship Committee
1994-96 Cooperative Marine Extension and Research Coordinating Committee
1997-00 Administrative Council
1998-00 Dean's Advisory Council
1999 Search Committee (Chair) - Dean of Research
2000 Ad Hoc Academic Advising Committee
2000 Search Committee - Geneticist
2000-04 Financial Aid Committee
2001-04 Environmental Council
2001 Search Committee - Botanist
2001 Search Committee - GIS Modeler
2001-03 Forestry Advisory Committee

School of Environmental & Biological Sciences (continued)

2001-05	Rutgers Solid Waste Policy Group
2001-06	George H. Cook Honors Committee, Chair (2005-06)
2002	Search Committee - Urban Forester
2002	Ad Hoc Curriculum Review Committee
2002-03	Freshman Advisor
2002-05	Appointments and Promotion Committee
2006-07	P-II Appointments and Promotion Committee
2007	Search Committee – Evolutionary Biologist
2008-11	Academic Integrity Facilitator (SEBS)
2012	P-II Appointments and Promotion Committee
2012-13	Honors Program - Ad hoc Evaluation Committee
2014	Center for Resilient Landscapes (USFS/RU-SEBS), Drafting Committee

University

1989-94	Program in Applied Genetics & Evolution, Associate Director
1993-95	Biological Science Area Committee - Chair
1993-95	Physical Science Area Committee - Chair
1993-95	Interdisciplinary PhD Program - Director
1993-96	Johnson & Johnson Discovery Award Committee, Chair (1995-96)
1994-95	Biological Science Self Study Committee
1994-96	Fullbright Fellowship Committee
1995-96	Research Advisory Committee
1995-96	Computer & Information Policy Advisory Committee
1995-96	Livingston Computer Pilot Committee
1995-96	Instructional Computer Committee
1997-98	New Brunswick Computer Advisory Committee
1997-98	Faculty Appeals Board
1998-01	University Senate - Cook College Delegate
2002-06	University Sustainability Committee
2003	Faculty Grievance Review Committee
2003	Advisory Committee - Cook College Teacher Education Program
2004-05	Rutgers Solid Waste Policy Group - Steering Committee

POSTDOCTORAL FELLOWS AND VISITING SCHOLARS

- Wood JW (1980-84) The impact of demographic pattern on the genetic structure of tribal populations, the Gainj & Kalam of Papua New Guinea.
- Excoffier L (1990-91) Development of a novel analysis of molecular variance (AMOVA), and its application to human populations from around the world.
- Xu S (1992-93) The adaptation of an operations research type of quadratic least squares analysis of mixed fishery composition for American shad, *Alosa sappidisima*.
- Chevillon C (1995-96) A comparison of the population genetic structure of *Culex pipiens* in human-commensal and free-ranging ecological settings.
- Austerlitz F (1999-00) The theoretical development of a novel analysis of pollen pool divergence, TWOGENER.

POSTDOCTORAL FELLOWS AND VISITING SCHOLARS (continued)

- Irwin A (2000-01) Analysis of the temporal pollen pool variation for *Albizia julibrissin* and *Enterolobium cyclocarpum*.
- Robledo-Arnuncio JJ (2004-05) Development and testing of an indirrect kinship analysis (KINDIST) of pollination distance in forest trees.
- Gonzales EA (2005-07) Pollen pool analysis in *Enterolobium cyclocarpum* and seed pool analysis in *Quercus lobata*.
- Souto CP (2010-11) Correlating geo-climatic and morpho-genetic variation in *Embothrium coccineum* (Proteaceae).
- Medica DL (2011-12) Modelling the demography of vertebrate parasites, with regard to finding vulnerable life stages for intervention strategies.
- Campagne P (2011-12) Landscape genetic and biogeographic diversity analyses of California savanna oaks.

DOCTORAL DISSERTATION COMMITTEES (* Chair or Co-chair)

- Moll PP (1975) *The Effects of Selection in the Isolation by Distance and Stepping Stone Models*. Division of Biological Sciences, State Univ. New York, Stony Brook.
- Hasstedt SJ (1976) *Stochastic Models for Biochemical Systems*. Department of Human Genetics, University of Michigan, Ann Arbor.
- * Beaty TLH (1978) *Likelihood Analysis of Multivariate Phenotypes in Pedigrees*. Department of Human Genetics, University of Michigan, Ann Arbor.
- Foltz DW (1979) *Genetics and Mating System of the Oldfield Mouse (*Peromyscus polionotus*)*. Division of Biological Sciences, University of Michigan, Ann Arbor.
- Fultz MJ (1979) *Inheritance of Human Antibody Structures Defined by Cross-Reactivity and Idiotypes*. Dept. Human Genetics, Univ. Michigan, Ann Arbor.
- Wood JW (1980) *Mechanisms of Demographic Equilibrium in a Small Human Population, the Gainj of Papua New Guinea*. Dept. Anthropology, University of Michigan, Ann Arbor.
- Hanis CL (1981) *Multivariate Models for Human Genetic Analysis: Development and Application to Systolic Blood Pressure and Weight*. Dept. Human Genetics, University of Michigan, Ann Arbor.
- Pacquin CME (1982) *Characterization and Rate of Occurrence of Adaptive Mutants in Haploid and Diploid Populations of the Yeast *Saccharomyces cerevisiae**. Division of Biological Sciences, University of Michigan, Ann Arbor.
- Burns TL (1982) *Sampling Considerations for the Determination of Genetic Transmission in Quantitative Traits*. Dept. Biostatistics, University of Michigan, Ann Arbor.
- Vonesh EF (1983) *Relative Efficiencies in the Multivariate Analysis of Repeated Measure-ments*. Dept. Biostatistics, University of Michigan, Ann Arbor.
- Price TD (1984) *Quantitative Genetics, Selection, and the Adaptive Radiation of Darwin's Finches*. Division of Biological Sciences, University of Michigan, Ann Arbor.
- * Long JC (1984) *The Estimation of Genetic Variation and Divergence: Application to Gainj and Kalam Speakers of Highland New Guinea*. Dept. Human Genetics, Univ. Michigan, Ann Arbor.
- Grosso P (1985) *Computer Simulations of Genetic Adaptation: A Study of Parallel Subcomponent Interaction in a Multilocus Biological Model*. Department of Computer and Communication Sciences, University of Michigan, Ann Arbor.

DOCTORAL DISSERTATION COMMITTEES (continued)

- Schwartz ARG (1986) *A New Method for Detecting Familial Heterogeneity of Cancer Risk: A Population-Based Study in Metropolitan Detroit*. Dept. Epid., Univ. Michigan, Ann Arbor.
- Zuk M (1986) *Sexual Selection, Mate Choice, and Gregorine Parasite Levels in the Field Crickets Gryllus veletis and G. pennsylvanicus*. Division of Biological Sciences, University of Michigan, Ann Arbor.
- Bruzdzinski CJ (1987) *Gene Dosage in Heterozygotes for Hemoglobin G-Philadelphia and Alterations in the Relative Synthesis of Globin Chains*. Department of Human Genetics, University of Michigan, Ann Arbor.
- * Frank S (1987) *Sex Allocation Theory: Methods, Patterns and Predictions*. Department of Biology, University of Michigan, Ann Arbor.
- Ritchie M (1987) *Natural Selection of Optimal Foraging Behavior in Columbian Ground Squirrels*. School of Natural Resources, University of Michigan, Ann Arbor.
- * Bush RM (1988) *The Relationship between Heterozygosity and Growth Rate in Pitch Pine (Pinus rigida Mill.) and Loblolly Pine (Pinus taeda L.)*. Department of Biology, University of Michigan, Ann Arbor.
- Fry JD (1988) *Genetic Variation and Genetic Correlations in Host-Specific Fitness in the Phytophagous Mite, Tetranychus urticae Koch*. Dept Biology, Univ Michigan, Ann Arbor.
- Pickering E (1990) *Patterns of Identity by Descent in a Stochastic Mating System*. Department of Statistics, Rutgers University, New Brunswick.
- Ploughman LM (1990) *Linkage Analysis: Power Estimation and Comparison of Methods*. Department of Biostatistics, University of Michigan, Ann Arbor.
- Strassmann BI (1990) *The Reproductive Ecology of the Dogon of Mali*. Department of Biological Sciences, University of Michigan, Ann Arbor.
- * Poolswon S (1991) *Malaria and the Evolution of Human β -Globin Polymorphisms in Southeastern Asia*. Dept. Anthropology, University of Michigan, Ann Arbor.
- * Hoffman SMG (1991) *The Molecular Mechanism Underlying the "Rare Allele Phenomenon" in a Natural Hybrid Zone*. Dept. Biological Sciences, University of Michigan, Ann Arbor.
- Vawter L (1991) *Evolution of the Blattoid Insects and of the Small Subunit Ribosomal RNA Gene*. Dept. Biological Sciences, University of Michigan, Ann Arbor.
- Quattro JM (1991) *Modes of Origin and Relative Evolutionary Ages of Unisexual Fish Clones (Poeciliopsis: Poeciliidae)*. Ecology and Evolution Program, Rutgers University, New Brunswick.
- James RAC (1992) *Genetic Variation in Belizean Black Howler Monkeys (Alouata pigra)*. Anthropology Program, Rutgers University, New Brunswick.
- Gach MCH (1993) *Evolution of Mitochondrial DNA in the Brook Stickleback, Culaea inconstans (Teleostei: Gasterosteidae): Description and Transmission Genetics of Sequence and Length Variation*. Dept. Biol. Sciences, University of Michigan, Ann Arbor.
- Bushek D (1994) *Dermo Disease in American Oysters: Genetics of Host-Parasite Interactions*. Ecology and Evolution Program, Rutgers Univ., New Brunswick.
- Craddock C (1994) *Molecular Systematics and Gene Flow of Deep Hydrothermal Vent and Cold-Water Methane-Sulfide Seep Mollusks*. Ecology and Evolution Program, Rutgers University, New Brunswick.
- Maas PAY (1996) *Genetic and Phenetic Differences in Two Biotypes of the Fall Armyworm, Spodoptera frugiperda J.E. Smith (Lepidoptera: Noctuidae)*. Ecology and Evolution Program, Rutgers University, New Brunswick.

DOCTORAL DISSERTATION COMMITTEES (continued)

- * Gaggiotti OE (1994) *Non-Equilibrium Models in Population Genetics: Stochastic Migration and Source-Sink Metapopulations*. Ecol. & Evol. Progr., Rutgers University, New Brunswick
- Hilton HK (1996) *Speciation and Molecular Evolution in the Drosophila virilis Species Group*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Elle E (1997) *Sex Allocation and Reproductive Success in an Andromonoecious Perennial Plant, Solanum carolinense L. (Solanaceae)*. Ecology and Evolution Program, Rutgers University, New Brunswick.
- Sanjur OI (1998) *Molecular Systematics and Evolution of Fish in the Genus Poeciliopsis (Cyprinodontiformes: Poeciliidae)*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- * Kaufman SR (1999) *The Effect of Habitat and Species Characteristics on Invasiveness of Melaleuca quinquenervia Cav. (Blake)*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Wright JW (2000) *Pollination, Seed Predation and Floral Character Evolution in Silene latifolia*. Plant Biology Program, Rutgers University, New Brunswick
- MacFarlane D (2001) *Ptaeda-Light: A Resource-Explicit Model for Simulating Growth and Mortality of Individual Loblolly Pine Trees Competing for Light Under Different Stand Conditions*. Ecology & Evolution Program, Rutgers Univ., New Brunswick.
- Medica D (2001) *The Role of Transmission in the Evolution of Virulence of Parasitic Helminths of Domestic Animals*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Dyer RJ (2002) *Contemporary Pollen Movement in Shortleaf Pine, Pinus echinata Mill.* Biological Sciences Program. University of Missouri, St. Louis.
- McPherson AA (2002) *Patterns of Genetic Variation in Scotia-Fundy Atlantic Herring*. Oceanography Program, Dalhousie University, Halifax, Canada.
- Hurtado LA (2002) *Evolution and Biogeography of Hydrothermal Vent Organisms in the Eastern Pacific Ocean*. Ecology & Evolution Program, Rutgers Univ., New Brunswick.
- Mateos M (2002) *Molecular Systematics and Biogeography of Sexual and Asexual Forms of Poeciliopsis (Cyprinodontiformes: Poeciliidae)*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Won Y-J (2003) *Molecular Systematics, Population Structure, and Gene Flow of Deep-Sea Hydrothermal Vent Mussels (Mytilidae: Bathymodiolus) and Associated Sulfur-Oxidizing Endosymbionts*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Jiang L (2003) *Studies of the Extrinsic and Intrinsic Regulation of Population Dynamics and Community Structure Using Modeling and Experimental Approaches*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Robledo-Arnuncio JJ (2004) *Estructura Genética y Dispersión Polínica de Pinus sylvestris L. en la Meseta Norte (España)*. Escuela Técnica Superior de Ingenieros de Montes, Univ. Politécnica de Madrid.
- Long ZT (2004) *Mechanistic Approaches to Understanding Complex Ecological Systems*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Elbin S (2004) *Mating Strategies in Two Species of Monogamously Breeding Colonial Birds (Scarlet Ibis, Eudocimus ruber & Waldrapp Ibis, Geronticus eremita) in Captivity*. Ecology & Evol. Program, Rutgers University, New Brunswick.
- Sivasundar A (2004) *Genetic Variation, Population Structure and Outcrossing in Caenorhabditis elegans*. Ecology & Evolution Program, Rutgers University, New Brunswick.

DOCTORAL DISSERTATION COMMITTEES (continued)

- * Mylecraine KA (2004) *Geographic Variation in Atlantic White-Cedar, Chamaecyparis thyoides: Implications for Management, Restoration, and Biogeography*. Ecology & Evol. Program, Rutgers University, New Brunswick.
- Cox RM (2005) *Integrating Proximate and Ultimate Causes of Sexual Size Dimorphism in Lizards*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Aronson M (2006) *Ecological Change by Alien Plants in an Urban Landscape*. Ecology & Evolution Program. Rutgers Univ., New Brunswick
- Cibrian-Jaramillo A (2007) *Population Genetics of Understory Chamaedorea Palms*. Ecology, Evolution, Ethology & Behavior Program. Columbia Univ., New York
- Harley NL (2007) *Patterns of Genetic Variation in Peoples of Mainland Papua New Guinea*. School of Medical Research, Australian Natl. Univ., Canberra
- Ramey P (2007) *Processes Affecting Macrofaunal Community Structure in Sandy Sediments on the New Jersey Inner Continental Shelf with a Focus on the Dominant Polychaete Polygordius jouniae*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Gallagher F (2008) *The Role of Soil Metal Contamination in the Vegetative Assemblage Development of an Urban Brownfield*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Lepis KB (2008) *Evolution and Systematics of Chelonanthus (Gentianaceae)*. Plant Biology Program, Rutgers University, New Brunswick
- Dahle GA (2009) *Allometry, Anatomy and Mechanics of Norway Maple (Acer platanoides L.): How Do Hydraulics and the Mechanical Properties of Wood Influence Branch Form*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Wang Y (2009) *Estimating the Process of Speciation for Humans and Chimpanzees*. Microbiology & Molecular Genetics Program, Rutgers Univ., New Brunswick
- Mathys BA (2009) *Morphological Evolution of Birds Recently Introduced to Islands: Patterns of Diversification*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Aunins A (2010) *Genetic Evaluation of American Shad Alosa sapidissima Restoration Success in James River, Virginia*. Integrative Life Science Prog., Virginia Commonwealth Univ., Richmond
- Mellor D (2011) *Male - Male Competition and Female Mate Choice in Reproductive Success of Mbuna cichlids and the Use of Environmental, Community-based and Metacognitive Learning in Student Retention and Achievement*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Harvey J (2011) *Using Bayesian Regression Tree Models and Remotely Sensed Data to Characterize Recent Environmental Change in Alaska, USA*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Norin CS (2011) *Appropriate Plant Genotypes for Urban Ecological Restoration: An Investigation into Urban Stress Response*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Rossiter WD (2012) *Impacts of Space, Abundance and Food Web Structure on Parasite Life Cycles*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Novi AE (2012) *Evolutionary and Demographic Processes in the Invasive Weed Microstigeum vimineum*. Plant Biology Program, Rutgers University, New Brunswick
- * Fasanella M (2012) *Variabilidad Genética Espacial y Ecología Molecular en Especies Nativas (Ctenomys magellanicus) e Invasoras (Castor canadensis) del Archipiélago de Tierra del Fuego*. Ecología, Genética y Evolución, Univ. Buenos Aires, Buenos Aires, AR.

DOCTORAL DISSERTATION COMMITTEES (continued)

- * Moreno AC (2012) *Estudio del Flujo Génico Mediado por Polen en Poblaciones Fragmentadas de Araucaria araucana*. Depart. Biología, Univ. Comahue, Bariloche, AR
- Doyle V (2012) *Colletotrichum gloeosporioides s.l. in North America: Sex, Host, and Habitat-Mediated Diversity in a Plant-Associated Ascomycete*. Biology Program, City University of New York University, Lehman College, New York
- Côrtés MC (2012) *Influence of Gene Dispersal and Environmental Heterogeneity on Spatial and Genetic Patterns of the Understory Herb Heliconia acuminata Across a Fragmented Landscape in Central Amazon, Brazil*. Ecology, Evolution & Environmental Biology Program, Columbia University, New York
- Vuong H (2012) *Ecological Correlates of Genetic Diversity in Borrelia burgdorferi, the Lyme Disease Bacterium*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Sanders J (2012) *Defining and Measuring Success in the Urban Forest*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Egizi AM (2014) *Ecological and Evolutionary Determinants of Invasion Success in Mosquitoes*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Greening BR (2014) *Higher-Order Analysis of Knowledge Capacity and Learning Potential in Animal Groups*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Clough BJ (2014) *Bayesian Approaches for Mapping Forest Soil Organic Carbon: Addressing Spatial and Model Uncertainty. Model Based Approaches for Mapping Forest Soil Carbon at the Landscape Scale*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Seah YM (2015) *Molecular Evolution and Phylogenetics of Circular Single-Stranded DNA Viruses*. Molecular & Microbial Genetics Program, Rutgers University, New Brunswick
- Miller S (2015) *Use of Traditional and Metagenomic Methods to Study Fungal Diversity*. Plant Biology and Plant Pathology Program, Rutgers Univ., New Brunswick
- Gallagher M (2017) *Using Burn Severity Indices to Monitor Wildland Fire Effects in the New Jersey Pinelands*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Spitz-Poster LD (2017) *Studies of Diploid and Tetraploid Blueberry, Vaccinium corymbosum*. Ecology & Evolution Program, Rutgers University, New Brunswick – active
- Jackson WA (2018) *The Hard Maple Group: A Study in Genetic Plasticity, with Regard to Stress Response, Population Genetics, Leaf Anatomy and Morphology*. Plant Biology and Plant Pathology Program, Rutgers University, New Brunswick – active
- Hoey J (2018) *Adaptation and Evolutionary Potential in Light of Anthropogenic Stressors in the Ocean*. Ecology & Evolution Program, Rutgers University, New Brunswick – active
- Williams, L (2018) *Studies of Dental Pathogen Diversity in Mid-Neolithic and Modern Human Populations*. Ecology & Evolution Program, Rutgers University, New Brunswick – active

MASTERS COMMITTEES (* Chair or Co-chair)

- * Spence S (1979) Linkage analysis for manic-depressive psychosis. Department of Human Genetics, University of Michigan, Ann Arbor
- * Jones J (1982) Evolutionary studies with *Escherichia coli*. Department of Human Genetics, University of Michigan, Ann Arbor
- Schenk ME (1991) *Genetics and Geographical Distribution of a New Clonally Derived Sexual Species of Poeciliopsis (Atheriniformes; Poecilidae)*. Ecology & Evolution Program, Rutgers University, New Brunswick

MASTERS COMMITTEES (continued)

- * Gaggiotti O (1990) *The Maintenance of Sex in a Heterogeneous Environment*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Folmer O (1994) *DNA Primers for Amplification of Mitochondrial Cytochrome C Oxidase Subunit I from Diverse Metazoan Invertebrates*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Obee EM (1995) *Comparative Phenotypic Plasticity and Life History of Schizachyrium scoparium from Grassland and Forest Biomes*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Lee JW (1995) *DNA Fingerprinting for the Determination of Paternity in a Natural Population of Lizards (Sceloporus undulatus)*. Ecology & Evolution Program, Rutgers University, New Brunswick
- * Trinidad J (1999) *Mathematical studies of phylogenetic development*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Medica D (1999) *The Evolution of Virulence in the Parasitic Helminths of Domestic Animals*. Animal Science Program, Rutgers University, New Brunswick
- Bayus JM (2001) *Sexual selection and mate choice in humans*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Mylecraine KA (2001) *Restoration of Atlantic White Cedar, Chamaecyparis thyoides, to Disturbed Sites in the New Jersey Pinelands*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Martine C (2001) *Shrubs and Vines: A Field Identification and Natural History Guide for New Jersey and the Northeast*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Celestino M (2004) *Analysis of the Abundances of Mercenaria mercenaria & Other Molluscs on Prospective Aquaculture Leased Grounds in New Jersey*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Dunsay J (2005) *Globalization, classification and meme flow between nations*. Ecology & Evolution Program, Rutgers University, New Brunswick.
- Sen I (2007) *Community management of protected areas for conservaion (COMPACT): A promising approach to integrated conservation and development projects (ICDPs)*. Ecology & Evolution Program. Rutgers University, New Brunswick.
- Kornbluh A (2008) *The effects of gypsy moth defoliation on nitrogen cycling in an oak-pine forest in the New Jersey Pine Barrens*. Ecology & Evolution Program, Rutgers Univ., New Brunswick
- Green-Beach E (2011) *Dermo on Martha's Vinyard: Infection of Perkinsus marinus and its influence on Oyster Host Population Structure*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Spitz LD (2013) *Taxonomic Revision of Gentianaceae in New Jersey*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Kerwin K (2013) *Human impact on Opuntia stricta distribution in the Laikipia Plateau, Kenya*. Ecology & Evolution Program, Rutgers University, New Brunswick
- Flanagan P (2017) *Community-temperature mismatch in a benthic marine ecosystem*. Oceanography Program, Rutgers University, New Brunswick

VISITING GRADUATE STUDENTS

- Aronson C (1985) Dept. Anthropology, University of Northern Arizona, Flagstaff, Arizona
Robledo-Arnuncio JJ (2002) Escuela Técnica Superior de Ingenieros de Montes, Universidad Politécnica de Madrid, Madrid, España
Olrik D (2004) Forest and Landscape Denmark, Royal Vet. & Agric. Univ., Soroe, Denmark
Cuartas S (2005) Labor. Genética Ecológica y Evolución, Departamento Ecología Evolutiva, Instituto de Ecología, Universidad Nacional Autónoma de México, México DF, México

UNDERGRADUATE STUDENTS (* supervised or co-supervised)

- * Kalousjian S (1975) *Two-Sex, Density-Dependent Demographic Models*. Senior Honors Thesis in Biology, Univ. Mich.
- * Aronson C (1985) *Multi-level F-statistics Analysis in Human Populations*. Senior Honors Project in Anthropology, Univ. Northern Ariz.
- * McIntyre L (1991) *Fuzzy Set Theory & Population Differentiation*, Senior Research Paper, Douglass Scholar, Rutgers Univ.
Conway N (1992) *Genetic Counseling in Pediatric Medicine*. George H. Cook, Junior Honors Paper, Rutgers Univ.
- Bersch A (1996) *The Effect of Canopy Removal on the Genetic Diversity in a Threatened Wetland Species, *Helonias bullata* (L.), and its Consequences for In Situ Conservation*. George H. Cook Honors Thesis, Rutgers Univ.
- Wachtl M (2001) *Linkage Disequilibrium in *Drosophila pseudoobscura* and *D. persimilis* and the Implications for Introgression Mapping*. Henry Rutgers Scholar, Rutgers Univ.
- * Bono L (2001-03) Temporal autocorrelation of pollen pool variation in *Albizia julibrissin*. Research Project. Douglass College, Rutgers Univ.
- * Mulhall P (2005-06) Paternity analysis in Guanacaste (*Enterolobium cyclocarpum*) from Palo Verde National Park, Costa Rica. Research Project. Cook College, Rutgers Univ.
- * Pilaar S (2006-08) *Using Dentition to Document Sheep and Goat Domestication in the Near East*. George H. Cook Honors Thesis, School of Envir. Biological Sciences, Rutgers Univ.
- * Osei-Hwedieh D (2008) Genetic analysis of Valley oak seed/seedling recruits in natural patches in California. Research Project. School of Arts and Sciences, Rutgers Univ.
- * Mughal M (2008) Maternal matching of *Quercus lobata* crown shadow recruits. School of Arts and Sciences, Rutgers Univ.
- * Giesler A (2009-10) *Paleoecology of the Late Miocene Mammalian Faunas of Şerefköy, Turkey and Samos, Greece*. George H. Cook Honors Thesis, School of Environmental and Biological Sciences, Rutgers Univ.
Mughal M (2010) *The Validity of the Stepwise Mutation Model*. Senior Honors Thesis, School of Arts and Sciences, Rutgers Univ.
- * Youngster T (2010) MtDNA biogeographic diversity analysis of Hawaiian limpets. School of Environmental and Biological Sciences, Rutgers Univ.
- * Huggan A (2011) Microsatellite diversity analysis of cryptic species of sexually-deceptive Australian *Chiloglottis* orchids. School of Environ. & Biolog. Sciences. Rutgers Univ.
- * Virk J (2012) Chloroplast network diversity analysis of cryptic species of sexually-deceptive Australian *Chiloglottis* orchids. School of Environ. & Biological Sciences. Rutgers Univ.
- * Hamilton D (2017) Evolution Instruction Assistant, School of Arts and Sciences, Rutgers Univ.

BIBLIOGRAPHY

PUBLICATIONS IN REFEREED JOURNALS

- Smouse PE (1971) The evolutionary advantages of sexual dimorphism. *THEORET POP BIOL* 2:469-481.
- Smouse PE (1972) The canonical analysis of multiple species hybridization. *BIOMETRICS* 28:361-371.
- Kojima K, Smouse P, Yang S, Nair PS, Brncic D (1972) Isozyme frequency patterns in *Drosophila pavani* associated with geographical and seasonal variables. *GENETICS* 72:721-731.
- Smouse PE, Kojima K (1972) Maximum likelihood analysis of population differences in allelic frequencies. *GENETICS* 72:709-719.
- Smouse PE, Saylor LC (1973) Studies of the *Pinus rigida-serotina* complex. I. A study of geographic variation. *ANN MISSOU BOT GARDEN* 60:174-191.
- Smouse PE, Saylor LC (1973) Studies of the *Pinus rigida-serotina* complex. II. Natural hybridization among the *Pinus rigida-serotina* complex, *P. taeda*, and *P. echinata*. *ANN MISSOU BOT. GARDEN* 60:192-203.
- Smouse PE (1974) Likelihood analysis of recombinational disequilibrium in multiple locus gametic frequencies. *GENETICS* 76:557-565.
- Smouse PE (1974) Likelihood analysis of geographic variation in allelic frequencies. II. The logit model and an extension to multiple loci. *THEORET APPLIED GENET* 45:52-58.
- Richardson RH, Smouse PE (1975) Ecological specialization of Hawaiian *Drosophila*: The community matrix, ecological complementation, and phyletic species packing. *OECOLOGIA* 22:1-13.
- Smouse PE, Weiss KM (1975) Discrete demographic models with density-dependent vital rates. *OECOLOGIA* 21:205-218.
- Weiss, KM, Smouse PE (1976) The demographic stability of small human populations. *J HUM EVOL* 5:59-73.
- Smouse PE (1976) The implications of density-dependent population growth for frequency and density dependent selection. *AM NATUR* 110:849-860.
- Richardson RH, Smouse PE (1976) Patterns of electrophoretic mobility. I. Inter-specific comparisons in the *Drosophila mulleri* complex. *BIOCHEM GENET* 14:447-466.
- Spielman RS, Smouse PE (1976) Multivariate classification of human populations. I. Allocation of Yanomama Indians to villages. *AM J HUM GENET* 28:317-331.
- Richardson RH, Smouse PE, Richardson ME (1977) Patterns of molecular variation. II. Associations of electrophoretic mobility and larval substrate within species of the *Drosophila mulleri* complex. *GENETICS* 85:141-154.
- Smouse PE, Neel JV (1977) Multivariate analysis of gametic disequilibrium in the Yanomama. *GENETICS* 85:733-752.
- Smouse PE, Kosuda K (1977) The effects of genotypic frequency and population density on fitness differentials in *Escherichia coli*. *GENETICS* 86:399-411.
- Kruckberg WC, Oelschlegel FJ Jr., Shore SH, Smouse PE, Brewer G (1977) The effects of zinc on the morphology of sickle red blood cell ghosts as observed by scanning electron microscopy. *RES EXP MED* 170:140-159.
- Crowe RR, Smouse PE (1977) The genetic implications of age-dependent penetrance in manic-depressive illness. *J PSYCH RES* 13:273-285.

PUBLICATIONS IN REFEREED JOURNALS (continued)

- Smouse PE, Ward RH (1978) A comparison of the genetic infra-structure of the Ye'cuana and Yanomama: A likelihood analysis of genotypic variation among populations. *GENETICS* 88: 611-631.
- Smouse PE (1980) Mathematical models for continuous culture growth dynamics of mixed populations subsisting on a heterogeneous resource base. I. Simple competition. *THEORET POP BIOL* 17:16-36.
- James NMcl, Smouse PE, Carroll BJ, Haines RF (1980) Affective illness and HLA frequencies: No compelling associations. *NEUROPSYCHOBIOL* 6:208-216.
- Neel JV, Gershowitz H, Mohrenweiser HW, Amos B, Kostyu DD, Salzano F, Mestriner MA, Lawrence D, Simões AL, Smouse PE, Oliver WJ, Spielman RS, Neel JV Jr (1980) Genetic studies on the Ticuna, an enigmatic tribe of central Amazonas. *ANN HUM GENET* 44:37-54.
- Carroll BJ, Feinberg M, Smouse PE, Rawson S, Greden JF (1981) The Carroll rating scale for depression. I. Development, reliability and validation. *BRIT J PSYCHIAT* 138:194-200.
- Smouse PE, Feinberg M, Carroll BJ, Park MH, Rawson S (1981) The Carroll rating scale for depression. II. Factor analyses of the feature profiles. *BRIT J PSYCHIAT* 138:201-204.
- Feinberg M, Carroll BJ, Smouse PE (1981) The Carroll rating scale for depression. III. Comparison with other rating instruments. *BRIT J PSYCHIAT* 138:205-209.
- Smouse PE, Vitzthum VJ, Neel JV (1981) The impact of random and lineal fission on the genetic divergence of small groups: A case study among the Yanomama. *GENETICS* 98:179-197.
- Smouse PE (1981) Mathematical models for continuous culture growth dynamics of mixed populations subsisting on a heterogeneous resource base. II. Predation and trophic structure. *THEORET POP BIOL* 20:127-149.
- Smouse PE, Weiss KM, Chakraborty R (1981) A simple test for aggregation of disease occurrence in genealogical data. *HUM HERED* 31:334-338.
- Smouse PE, Williams RC (1982) Multivariate analysis of HLA disease associations. *BIOMETRICS* 38:757-768.
- Weiss KM, Chakraborty R, Majumder PP, Smouse PE (1982) Problems in the assessment of relative risk of chronic disease among biological relatives of affected individuals. *J CHRON DIS* 35:539-551.
- Smouse PE, Spielman RS, Park MH (1982) Multiple-locus allocation of individuals to groups as a function of the genetic variation within and differences among human populations. *AM NATURAL* 119:445-463.
- Barrantes R, Smouse PE, Neel JV, Mohrenweiser HW, Gershowitz H (1982) Migration and genetic infra-structure of the Central American Guaymi and their affinities with other tribal groups. *AM J PHYS ANTHROPOL* 58:201-214.
- Wood JW, Smouse PE (1982) A method for analyzing density-dependent vital rates, with an application to the Gainj of Papua New Guinea. *AM J PHYS ANTHROPOL* 58:403-411.
- Smouse PE, Neel JV, Liu W (1983) Multiple-locus departures from panmictic equilibrium within and between village gene pools of Amerindian tribes at different stages of agglomeration. *GENETICS* 104:133-153.
- Long JC, Smouse PE (1983) Intertribal gene flow between the Ye'cuana and Yanomama: Genetic analysis of an admixed village. *AM J PHYS ANTHROPOL* 61:411-422.
- Wood JW, Smouse PE, Long JC (1985) Sex-specific dispersal patterns in two human populations of highland New Guinea. *AM NATURAL* 125:747-768.

PUBLICATIONS IN REFERED JOURNALS (continued)

- Weiss KM, Chakraborty R, Smouse PE, Buchanan AV, Strong C (1986) Familial cancer in Laredo, Texas, a generally low-risk Mexican-American population. *GENET EPID* 3:121-143.
- Salzano FM, Gershowitz H, Mohrenweiser H, Neel JV, Smouse PE, Mestriner MA, Weimer TA, Franco MHL, Simões AL, Constans J, Oliveira AE, de Melo e Freitas MJ (1986) Gene flow across tribal barriers and its effect among the Amazonian Içana River Indians. *AM J PHYS ANTHROPOL* 69:3-14.
- Smouse PE, Chakraborty R (1986) The use of restriction fragment length polymorphisms in paternity analysis. *AM J HUM GENET* 38:918-939.
- Long JC, Naidu JM, Mohrenweiser HW, Gershowitz H, Johnson PL, Wood JW, Smouse PE (1986) Genetic characterization of Gainj and Kalam speaking people of Papua New Guinea. *AM J PHYS ANTHROPOL* 70:75-96.
- Smouse PE (1986) The fitness consequences of multiple-locus heterozygosity under the multiplicative overdominance and inbreeding depression models. *EVOLUTION* 40:946-957.
- Sokal RR, Smouse PE, Neel JV (1986) The genetic structure of a tribal population, the Yanomama Indians. XV. Patterns inferred by autocorrelation analysis. *GENETICS* 114:259-287.
- Smouse PE, Long JC, Sokal RR (1986) Multiple regression and correlation extensions of the Mantel test of matrix correspondence. *SYST ZOO* 35:627-632.
- Bush RM, Smouse PE, Ledig FT (1987) The fitness consequences of multiple-locus heterozygosity: The relationship between heterozygosity and growth in pitch pine (*Pinus rigida*, Mill.). *EVOLUTION* 41:787-798.
- Long JC, Smouse PE, Wood JW (1987) The allelic correlation structure of the Gainj and Kalam speaking people. II. Genetic distances between population subdivisions. *GENETICS* 117:273-283.
- Smouse PE, Li W-H (1987) Likelihood analysis of restriction cleavage patterns for the human-chimpanzee-gorilla trichotomy. *EVOLUTION* 41:1162-1176.
- Chakraborty R, Meagher T, Smouse PE (1988) Parentage analysis with genetic markers in natural populations. I. The expected proportion of offspring with unambiguous paternity. *GENETICS* 118:527-536.
- Chakraborty R, Smouse PE (1988) Recombination of haplotypes leads to biased estimates of admixture proportions in human populations. *PROC NATL ACAD SCI USA* 85:3071-3074.
- Chakraborty R, Smouse PE, Neel JV (1988) Population amalgamation and genetic variation: Observations on artificially agglomerated tribal populations of Central and South America. *AM J HUM GENET* 43:709-725.
- Neel JV, Satoh C, Smouse PE, Asakawa J, Takahashi N, Goriki K, Fujita M, Kageoka T, Hazama R (1988) Protein variants in Hiroshima and Nagasaki: Tales of two cities. *AM J HUM GENET* 43:870-893.
- Waples RS, Smouse PE (1990) Gametic disequilibrium analysis as a means of identifying mixtures of salmon populations. *AM FISHER SOC SYMP* 7:439-458.
- Barrantes R, Smouse PE, Mohrenweiser HW, Gershowitz H, Azofeifa J, Arias T, Neel JV (1990) Microevolution in lower Central America. I. Genetic characterization of the Chibcha-speaking groups of Costa Rica and Panama, and a taxonomy based on genetics, linguistics, and geography. *AM J HUM GENET* 46:63-84.
- Smouse PE, Waples RS, Tworek JA (1990) Genetic analysis of Chinook salmon taken at Bonneville Dam: A mixed fishery model for use with incomplete baseline data. *CAN J FISH AQUAT SCI* 47:620-634.

PUBLICATIONS IN REFEREED JOURNALS (continued)

- Bush RM, Smouse PE (1991) The impact of electrophoretic genotype on fitness in *Pinus taeda* L. *EVOLUTION* 45:481-498.
- Smouse PE, Dowling TE, Tworek JA, Hoeh WR, Brown WM (1991) Effects of intraspecific variation on phylogenetic inference: A likelihood analysis of mtDNA restriction site data in cyprinid fishes. *SYST ZOOL* 40:393-409.
- Excoffier L, Smouse PE, Quattro JM (1992) Analysis of molecular variance inferred from metric distances among DNA haplotypes: Application to human mitochondrial DNA restriction data. *GENETICS* 131:479-491.
- Thompson, EA, Neel JV, Smouse PE, Barrantes R (1992) Microevolution in lower Central America: Rare genes in an Amerindian complex. *AM J HUM GENET* 51:609-626.
- Bush RM, Smouse PE (1992) Evidence for the adaptive significance of allozymes in forest trees. *NEW FORESTS* 6:179-196.
- Smouse PE, Long JC (1992) Matrix correlation analysis in anthropology and genetics. *YEARBOOK PHYS ANTHROPOL* 35:187-213.
- Livshits G, Smouse PE (1993) An examination of multivariate bilateral asymmetry in human adults. *HUM BIOL* 65:547-578.
- Huff DR, Peakall R, Smouse PE (1993) RAPD marker variation within and among natural populations of outcrossing Buffalograss (*Buchloë dactyloides* (Nutt.) Engelm.). *THEORET APPL GENET* 86:927-934.
- Smouse PE, Meagher TR (1994) Genetic analysis of male reproductive contributions in *Chamaelirium luteum* (L.) Gray (Liliaceae). *GENETICS* 136:313-322.
- Excoffier L, Smouse PE (1994) Using allele frequencies and geographic subdivision to reconstruct gene trees within a species: Molecular variance parsimony. *GENETICS* 136:343-359.
- Livshits G, Smouse PE (1994) Relationships between fluctuating asymmetry and heterozygosity in an elderly Israeli population. *GENETICA* 89:155-166.
- Xu S, Kobak C, Smouse P (1994) Constrained least squares estimation of mixed population stock composition from mtDNA haplotype frequency data. *CAN J FISH AQUAT SCI* 51:417-425.
- Mills LS, Smouse PE (1994) Demographic consequences of inbreeding in small remnant populations. *AM NATUR* 144:412-431.
- Peakall R, Smouse PE, Huff DR (1995) Evolutionary implications of allozyme and RAPD variation in diploid populations of dioecious buffalograss (*Buchloë dactyloides* (Nutt.) Engelm.). *MOLEC ECOL* 4:135-147.
- Epifanio JM, Smouse PE, Kobak CJ, Brown BL (1995) Mitochondrial DNA divergence among populations of American shad (*Alosa sapidissima*): How much variation is enough for mixed stock analysis? *CAN J FISH AQUAT SCI* 52:1688-1702.
- Gaggiotti OE, Smouse PE (1996) Stochastic migration and maintenance of genetic variation in sink populations. *AM NATUR* 147:919-945.
- Brown BL, Epifanio JM, Smouse PE, Kobak CJ (1996) Temporal stability of mtDNA haplotype frequencies in American shad stocks: to pool or not to pool across years? *CAN J FISH AQUAT SCI* 53:2274-2283.
- Double MC, Cockburn A, Barry SC, Smouse PE (1997) Exclusion probabilities for single-locus paternity analysis when related males compete for matings. *MOLEC ECOL* 6:1155-1166.
- Chevillon C, Rivet Y, Raymond M, Rousset F, Smouse PE, Pasteur N (1998) Migration/selection balance and ecotypic differentiation in the mosquito *Culex pipiens*. *MOLEC ECOL* 7:197-208.
- Smouse PE (1998) To tree or not to tree. *MOLEC ECOL* 7:399-412.

PUBLICATIONS IN REFEREED JOURNALS (continued)

- Smouse PE, Chevillon C (1998) Analytical aspects of population-specific DNA-fingerprinting for individuals. *J HEREDITY* 89:143-150.
- Kaufman SR, Smouse PE, Alvarez-Buylla ER (1998) Pollen-mediated gene flow and differential male reproductive success in a tropical pioneer tree, *Cecropia obtusifolia* Bertol. (Moraceae). *HEREDITY* 81:164-173.
- Smouse PE, Peakall R (1999) Spatial autocorrelation analysis of multi-allele and multi-locus genetic microstructure. *HEREDITY* 82: 561-573.
- Brown BL, Smouse PE, Epifanio JM, Kobak CJ (1999) Mitochondrial DNA mixed stock analysis of American shad: Coastal harvests are dynamic and variable. *TRANS AM FISH SOC* 128:977-994.
- Smouse PE, Meagher TR, Kobak CJ (1999) Parentage analysis in *Chamaelirium luteum* (L.): Why do some males have disproportionate reproductive contributions? *J EVOL BIOL* 12:1069-1077.
- Smouse PE (2000) Reticulation inside the species boundary. In: *Special Section, Reticulate Evolution*, P. Legendre (ed.). *J CLASSIFIC* 17:165-173.
- Smouse PE, Dyer RJ, Westfall RD, Sork VL (2001) Two-generation analysis of pollen flow across a landscape. I. Male gamete heterogeneity among females. *EVOLUTION* 55:260-271.
- Austerlitz F, Smouse PE (2001) Two-generation analysis of pollen flow across a landscape. II. Relation between ϕ_{it} , pollen dispersal, and inter-female distance. *GENETICS* 157:851-857.
- Kaufman SR, Smouse PE (2001) Comparing indigenous and introduced populations of *Melaleuca quinquenervia* (Cav.) Blake: Response of seedlings to water and pH levels. *OECOLOGIA* 127:487-494.
- Austerlitz F, Smouse PE (2001) Two-generation analysis of pollen flow across a landscape. III. Impact of within-population structure. *GENETICAL RESEARCH* 78:271-280.
- Austerlitz F, Smouse PE (2002) Two-generation analysis of pollen flow across a landscape. IV. Estimating the dispersal parameter. *GENETICS* 161:355-363.
- Sork VL, Davis F, Smouse PE, Apsit V, Dyer R, Fernandez JM, Kuhn B (2002) Pollen movement in declining populations of California valley oak, *Quercus lobata*: Where have all the fathers gone? *MOLEC ECOL* 11:1657-1668.
- He T, Smouse PE (2002) Paternity analysis in *Ophiopogon xyloorrhizus* Wang et Tai (Liliaceae s.l.): selfing assures reproductive success. *J EVOL BIOL* 15:487-494.
- Irwin AJ, Hamrick JL, Godt MJW, Smouse PE (2003) A multi-year estimate of the effective pollen donor pool for *Albizia julibrissin*. *HEREDITY* 90:187-194.
- Stevens MHH, Petchey OL, Smouse PE (2003) Stochastic relations between species richness and the variability of species composition. *OIKOS* 103:479-488.
- Austerlitz F, Dick CW, Dutech C, Klein E, Oddou-Muratorio S, Smouse PE, Sork VL (2004) Using genetic markers to estimate the pollen dispersal curve. *MOLEC ECOL* 13:937-954.
- Dyer RJ, Westfall RD, Sork VL, Smouse PE (2004) Two-generation analysis of pollen flow across a landscape. V. A stepwise approach for extracting factors contributing to pollen structure. *HEREDITY* 92:204-211.
- Robledo-Arnuncio JJ, Smouse PE, Gil L, Alía R (2004) Pollen movement under alternative silvicultural practices in native populations of Scots pine (*Pinus sylvestris* L.) in central Spain. *FOR ECOL MANAG* 197:245-255.
- Smouse PE, Sork VL (2004) Measuring pollen flow in forest trees: An exposition of alternative approaches. *FOR ECOL MANAG* 197:21-38.

PUBLICATIONS IN REFEREED JOURNALS (continued)

- Mylecraine KA, Kuser JE, Smouse PE, Zimmermann GL (2004) Geographic allozyme variation in Atlantic white cedar, *Chamaecyparis thyoides* (Cupressaceae). CAN J FOR RES 34:2443-2454.
- Dutech C, Sork VL, Smouse PE, Davis F (2005) Relationships between fine-scale genetic structure and gene flow in a wind pollinated tree species, *Quercus lobata* Née. AM J BOT 92: 252-261.
- Sork VL, Smouse PE, Apsit VJ, Dyer RJ, Westfall RD (2005) A two-generation analysis of pollen structure in Missouri Ozark populations of flowering dogwood (*Cornus florida*, Cornaceae). AM J BOT 92:262-271.
- Smouse PE, Robledo-Arnuncio JJ (2005) Measuring the genetic structure of the pollen pool as the probability of paternal identity. HEREDITY 94:640-649.
- Grivet D, Smouse PE, Sork VL (2005) A new approach to the study of seed dispersal: a novel approach to an old problem. MOLEC ECOL 14:3585-3595.
- Mylecraine KA, Kuser JE, Zimmermann GL, Smouse PE (2005) Rangewide provenance variation in Atlantic white-cedar (*Chamaecyparis thyoides*): Early survival and growth in New Jersey and North Carolina plantations. FOR ECOL MANAG 216:91-104.
- Robledo-Arnuncio JJ, Austerlitz F, Smouse PE (2006) A new method of estimating the pollen dispersal curve, independently of effective density. GENETICS 173:1-14.
- Gonzales E, Hamrick JL, Smouse PE, Dyer RJ (2006) Pollen mediated gene dispersal within continuous and fragmented populations of a forest understory species, *Trillium cuneatum*. MOLEC ECOL 15:2047-2058.
- Sork VL, Smouse PE (2006) Genetic analysis of landscape connectivity in tree populations. LANDSC ECOL 21:821-836.
- Peakall R, Smouse PE (2006) GenAlEx 6: Genetic Analysis in Excel. Population genetic software for teaching and research. MOLEC ECOL NOTES 6:288-295.
- Smouse PE, Robledo-Arnuncio JJ, González-Martínez SC (2007) Implications of natural propagule flow for containment of genetically modified forest trees. TREE GENET GENOM 3: 141-152.
- Robledo-Arnuncio JJ, Austerlitz F, Smouse PE (2007) POLDISP: A software package for indirect estimation of contemporary pollen dispersal. MOLEC ECOL NOTES 7:763-766.
- Austerlitz F, Dutech C, Smouse PE, Davis F, Sork VL (2007) Estimating anisotropic pollen dispersal: A case study in *Quercus lobata*. HEREDITY 99:193-204.
- Peters MB, Hagen C, Trapnell DW, Hamrick JL, Rocha O, Smouse PE, Glenn TC (2008) Isolation and characterization of microsatellite loci in the Guanacaste tree, *Enterolobium cyclocarpum*. MOLEC ECOL RESOURCES 8:129-131.
- Smouse PE, Peakall R, Gonzales E (2008) A heterogeneity test for fine-scale genetic structure. MOLEC ECOL 17:3389-3400.
- Gonzales E, Hamrick JL, Smouse PE (2008) A Comparison of clonal diversity in mountain and Piedmont populations of *Trillium cuneatum* (Melanthiaceae - Trilliaceae), a forest understory species. AM J BOT 95:1-9.
- Nathan R, Getz WM, Revilla E, Holyoak M, Kadmon R, Saltz D, Smouse PE (2008) A movement ecology paradigm for unifying organismal movement research. PROC NATL ACAD SCI USA 105:19052-19059.
- Pluess AR, Sork VL, Dolan B, Davis FW, Grivet D, Merg K, Papp J, Smouse PE (2009) Short distance pollen movement in a wind-pollinated tree, *Quercus lobata* (Fagaceae). FOR ECOL MANAG 258:735-744.

PUBLICATIONS IN REFEREED JOURNALS (continued)

- Grivet D, Robledo-Arnuncio JJ, Smouse PE, Sork VL (2009) Relative contribution of contemporary pollen and seed dispersal to the neighborhood size of a seedling population of California valley oak (*Quercus lobata*, Née). MOLEC ECOL 16:3967-3979.
- Gonzales E, Hamrick JL, Smouse PE, Trapnell DW, Peakall R (2010) The impact of landscape disturbance on spatial genetic structure in the Guanacaste tree, *Enterolobium cyclocarpum* (Fabaceae). J HEREDITY 101:133-143.
- Soto A, Robledo-Arnuncio JJ, González-Martínez SC, Smouse PE, Alía R (2010) Climatic niche and neutral genetic diversity of the six Iberian pine species: A retrospective and prospective view. MOLEC ECOL 19:1396-1409.
- Scofield DG, Sork VL, Smouse PE (2010) Influence of acorn woodpecker social behavior on transport of Coastal Live Oak (*Quercus agrifolia* Née) acorns in a southern California oak savanna. J ECOLOGY 98:561-572.
- Novy A, Smouse PE, Hartman JM, Struwe L, Honig J, Miller C, Alvarez M, Bonos S (2010) Genetic variation of *Spartina alterniflora* in the New York metropolitan area and its relevance for marsh restoration. WETLANDS 30:603-608.
- Smouse PE, Focardi S, Moorcroft P, Morales JM, Kie J, Reynolds J (2010) Stochastic modelling of animal movement. PHIL TRANS ROY SOC LOND B 365:2201-2211.
- Cuartas-Hernández S, Núñez-Farfán J, Smouse PE. 2010. Restricted pollen flow of *Diffenbachia seguine* populations in fragmented and continuous tropical forest. HEREDITY 105:197-204.
- Scofield DG, Alfaro VR, Sork VL, Grivet D, Martinez E, Papp J, Pluess AR, Koenig WD, Smouse PE (2011) Foraging patterns of acorn woodpeckers of (*Melanerpes formicivorus*) on valley oak (*Quercus lobata* Née) in two California oak savannah-woodlands. OECOLOGIA 166: 187-196.
- Struwe L, Smouse PE, Heiberg E, Haag S, Lathrop RG (2011) Spatial evolutionary and ecological vicariance analysis (SEEVA), a novel approach to biogeography and speciation research, with an example for Brazilian Gentianacea. J BIOGEOGR 38:1841-1854.
- Timmers MA, Bird CE, Skillings DJ, Smouse PE, Toonen RJ (2012) There's no place like home: Crown-of-thorns outbreaks in the Central Pacific are regionally derived and independent events. PLoS ONE 7(2):e31159.doi:10.1371/journal.pone.0031159
- Smouse PE, Sork VL, Scofield DG, Grivet D (2012) Using seedling and pericarp tissues to determine maternal parentage of dispersed Valley oak recruits. J HEREDITY 103:250-259.
- Marchelli P, Smouse PE, Gallo LA (2012) Short distance pollen dispersal for an outcrossed, wind-pollinated southern beech (*Nothofagus nervosa* (Phil.) Dim. et Mil.). TREE GENET GENOM 8:1123–1134.
- Campagne P, Smouse PE, Varouchas G, Silvain J-F, Le Rü B (2012) Comparing van Oosterhout and Chybicki-Burczyk methods of estimating null allele frequencies for inbred populations. MOLEC ECOL RESOUR 12:975-982.
- Peakall R, Smouse PE (2012) GenA1Ex 6.5: Genetic analysis in Excel. Population genetic software for teaching and research – an update. BIOINFORM 28:2537–2539.
- Naiman RJ, Alldredge JR, Beauchamp DA, Bisson PA, Congleton J, Henny CJ, Huntly N, Lamberson R, Levings C, Merrill E, Percy W, Rieman BE, Ruggerone G, Scarnecchia D, Smouse PE, Wood CC (2012) Developing a broader scientific foundation for river restoration: Columbia River food webs. PROC NATL ACAD SCI US 109:21201–21207.
- Scofield DG, Smouse PE, Karubian J, Sork VL (2012) Use of α , β , and γ diversity measures to characterize seed dispersal by animals. AMER NATUR 180:719-732. (on-line Dryad Appendix, supporting material, <http://dx.doi.org/10.5061/dryad.40kq7>).

PUBLICATIONS IN REFEREED JOURNALS (continued)

- Robledo-Arnuncio JJ, Grivet D, Smouse PE, Sork VL (2012) PSA: Software for parental structure analysis of seed and seedling patches. *MOLEC ECOL RESOUR* 12:1180-1189.
- Ledig FT, Hom JL, Smouse PE (2013) The evolution of the New Jersey pine plains. *AM J BOT* 100:778–791.
- Souto CP, Smouse PE (2013) Correlated morphological and genetic pattern in *Embothrium coccineum* (Proteaceae) across climate and geography: Can *Embothrium* survive Patagonian climate change. *AUSTRAL J BOTANY* 61:516-527. (<http://dx.doi.org/10.1071/BT13214>)
- Côrtes MC, Uriarte M, Lemes MR, Gribel R, Kress WJ, Smouse PE, Bruna EM (2013) Low plant density enhances gene flow in the Amazonian understory herb *Heliconia acuminata*. *MOLEC ECOL* 22:5716-5729.
- Vuong HB, Canham CD, Fonseca DM, Brisson D, Morin PJ, Smouse PE, Ostfeld RS (2014) Occurrence and transmission efficiencies of *Borrelia burgdorferi ospC* types in avian and mammalian wildlife. *INFECT GENET EVOL* 27:594-600.
- Thompson PG, Smouse PE, Scofield DG, Sork VL (2014) What seeds tell us about birds: A multi-year analysis of foraging behavior of Acorn woodpeckers on two oak species. *MOVE ECOL* 2:12 (<http://www.movementecologyjournal.com/content/2/1/12>).
- Rieman BE, Smith C, Naiman RJ, Ruggerone G, Wood CC, Alldredge JR, Bisson PA, Congleton J, Fausch K, Huntly N, Lamberson R, Levings C, Merritt E, Percy W, Scarnecchia D, Smouse PE (2015) A comprehensive approach for habitat restoration in the Columbia River basin. *FISHERIES* 40:124-135.
- Smouse PE, Whitehead MR, Peakall R (2015) An informational diversity analysis framework, illustrated with sexually deceptive orchids in early stages of speciation. *MOLEC ECOL RESOUR* 15:1375-1384.
- Sork VL, Smouse PE, Scofield DG, Grivet D (2015) Impact of asymmetric male and female gamete dispersal on allelic diversity and spatial genetic structure in valley oak (*Quercus lobata* Née). *EVOL ECOL* 29:927-945.
- Ledig FT, Smouse PE, Hom JL (2015) Post-glacial migration and adaptation for dispersal in pitch pine (Pinaceae). *AM J BOT* 102:2074-2091.
- Campagne P, Smouse PE, Pasquet R, Capdevielle-Dulac C, Silvain J-F, Le Ru B, Van den Berg J (2016) Impact of violated HDR assumptions on evolution of *Bt*-resistance *EVOL APPL* 9:596-607.
- Vuong HB, Chiu GS, Smouse PE, Fonseca DM, Brisson D, Morin PJ, Ostfeld RS (2017) Influences of host community characteristics on *Borrelia burgdorferi* infection prevalence in blacklegged ticks. *PLoS ONE* 12(1): e0167810. [doi:10.1371/journal.pone.0167810](https://doi.org/10.1371/journal.pone.0167810).
- Poster LS, Handel SN, Smouse PE (2017) Corolla size and temporal displacement of flowering times among sympatric diploid and tetraploid *Vaccinium corymbosum*. *BOTANY* (<http://dx.doi.org/10.1139/cjb-2016-0137>)
- Karlin, E. F. & Smouse, P. E. 2017. Allo-allo-triploid *Sphagnum ×falcatulum*: single individuals contain most of the Holantarctic diversity for ancestrally indicative markers. *ANN BOTANY* 120: 221-231. (<https://doi.org/10.1093/aob/mcw269>)
- Walker DM, Smouse PE, Reginato M, Lena Struwe L. (2017) Cladal divergence in fungal *Ophiognomonia* (Gnomoniaceae, Diaporthales) shows evidence of climatic niche vicariance. *BIOL J LINN SOC* (<https://doi.org/10.1093/biolinnean/blx043>)
- Sherwin WB, Chao A, Jost L, Smouse PE (2017) Information theory widens the spectrum of molecular evolution and ecology. *TREE* (2nd submission, TREE-D-17-00068.R1)

PUBLICATIONS IN REFEREED JOURNALS (continued)

- Smouse PE, Banks SB, Peakall R (2017) Converting Rao's quadratic entropy into diversity: Both animals and alleles are diverse, but some are more diverse than others. PLOS ONE (2nd submission, PONE-D-17-00068.R1)
- Novy A, Smouse PE, Flory SL, Honig J, Bonos S, Cully T, Hartman JM. (2017) Genetic radiation determines biogeographic structure of invasive stiltgrass, *Microstegium vimineum*. AM J BOT (in revision AJB-2017-00052)
- Ledig FT, Hom JL, Smouse PE. (2017) Pitch pine on the Atlantic Coastal Plain. Ecol-Evol (in revision, ECOL-EVOL-ECE-2016-05-00430.R2)
- Thompson PG, Gaddis KD, Quesada M, Smouse PE, Sork VL (2017) Bat-mediated pollen flow among *Crescentia alata* trees in fragmented and continuous forest. AM J BOT (in revision, AJB-

BOOKS & BOOK CHAPTERS

- Smouse PE (1970) *Population Studies in the Genus Pinus L.* PhD Thesis, Department of Genetics, North Carolina State University, Raleigh, N.C.
- Richardson RH, Richardson ME, Smouse PE (1975) Evolution of electrophoretic mobility in the *Drosophila mulleri* complex. PROC III INT CONF ISOZYMES IV:533-545.
- Weiss KM, Smouse PE (1976) The demographic stability of small human populations. In: *The Demographic Evolution of Human Populations*, RH Ward, KM Weiss (eds.). Academic Press, New York. pp. 59-73.
- Smouse PE, Spielman RS (1977) How allocation of individuals depends on genetic differences among populations. EXCERPTA MEDICA INTERNAT CONGR SER 411:255-260.
- James NMCI, Carroll BJ, Haines RF, Smouse PE (1979) Affective disorders: ABO and HLA. In: *Genetic Aspects of Affective Illness*, J Mendlewicz, B Shopsin (eds.). SP Medical and Scientific Books, New York. pp. 35-44.
- Smouse PE (1979) Statistical analysis of HLA-disease associations. In: *Genetic Analysis of Common Diseases: Applications to Predictive Factors in Coronary Heart Disease*, CF Sing, M Skolnick (eds.). Alan Liss, New York. pp. 545-551.
- Smouse PE (1982) Genetic architecture of swidden agricultural tribes from the lowland rain forests of South America. In: *Current Developments in Anthropological Genetics. Vol 2. Ecology and Population Structure*, MH Crawford, JH Mielke (eds.). Plenum Press, New York. pp. 139-178.
- Beer AE, Quebbeman JF, Semprini AE, Smouse PE, Haines RF (1983) Recurrent abortion: Analysis of the roles of parental sharing of histocompatibility antigens and maternal immunological responses to paternal antigens. In: *Reproductive Immunology*, S Isojima, WB Billington (eds.). Elsevier, New York. pp. 185-195.
- Smouse PE, Adams J (1983) The use of linked genetic markers for paternity analysis, with special consideration of the HLA complex. In: *Inclusion Probabilities in Parentage Testing*. AM ASSOC BLOOD BANKS, Arlington, VA. pp. 397-407.
- Adams J, Smouse PE (1985) Genetic consequences of demographic changes in human populations. In: *Diseases of Complex Etiology in Small Populations: Ethnic Differences and Research Approaches*, R Chakraborty, EJE Szathmary (eds.). Alan R. Liss, New York. pp. 283-299.
- Smouse PE, Wood JW (1987) The genetic demography of the Gainj of Papua New Guinea: Functional models of migration and their genetic implications. In: *Mammalian Dispersal Patterns: The Effects of Social Structure on Population Genetics*, BD Chepko-Sade, Z Halpin (eds.). Univ Chicago Press, Chicago. pp. 211-224.

BOOKS & BOOK CHAPTERS (continued)

- Smouse PE, Long JC (1988) A comparative F -statistics analysis of the Yanomama of lowland South America and the Gainj and Kalam of highland New Guinea. PROC II INTERNAT CONF QUANT GENET, BS Weir, G Eisen, MM Goodman, G Namkoong (eds.). Sinauer, Sunderland, MASS. pp. 32-46.
- Adams J, Lam D, Hermalin A, Smouse PE (eds.) (1990) *Convergent Issues in Genetics and Demography*. Oxford Univ. Press, New York. 361 pp.
- Lam D, Smouse PE (1990) Heterogeneous frailty analysis in demography and genetics. In: *Convergent Issues in Genetics and Demography*, J Adams, D Lam, A Hermalin, PE Smouse (eds.). Oxford Univ Press, New York. pp. 97-109.
- Smouse PE, Teitelbaum MS (1990) Genetics, demography, and epidemiology. In: *Convergent Issues in Genetics and Demography*, J Adams, D Lam, A Hermalin, PE Smouse (eds.). Oxford Univ. Press, New York. pp. 209-217.
- Bush RM, Smouse PE (1992) Evidence for the adaptive significance of allozymes in forest trees. In: *Proceed. International Symposium on the Population Genetics of Forest Trees*, WT Adams, SH Strauss, DL Copes, AR Griffin (eds.). Kluwer Academic Publ., Dordrecht, Netherlands. pp. 179-196.
- Smouse PE, Chakraborty R (1993) Some theoretical predictions for electrophoretic polymorphisms maintained by balancing selection. In: *Genetics of Cellular, Individuals, Family, & Population Variability*, CF Sing, CL Hanis (eds.). Oxford Press, New York. pp. 201-212.
- Smouse PE, Kobak CJ, Xu S (1994) Some thoughts on information content in allozyme and DNA markers in genetic stock identification. In: *Application of DNA Technology to the Management of Pacific Salmon*, LK Park, PC Moran, RS Waples. US DEPT. COMMERCE, NOAA TECH. MEMO. NMFS-NWFSC-17. pp. 121-126.
- Livshits G, Smouse PE (1994) Relationships between fluctuating asymmetry and heterozygosity in an elderly Israeli population. In: *Developmental Instability: Its Origins and Evolutionary Implications*, TA Markow (ed.). Kluwer Acad Publ., Dordrecht, Netherlands. pp. 157-168.
- Brown BL, Epifanio JM, Kobak CJ, Smouse PE (1997) Critical tests for variation indicate mtDNA characters are powerful for mixed stock analysis. PROC SECOND WORLD FISH CONGR. VOL. 2, pp. 332-340.
- Sork VL, Davis F, Dyer RJ, Smouse PE (2001) Mating patterns in a savanna population of valley oak (*Quercus lobata* Neé). In: *Proceedings of the Fifth Symposium on Oak Woodlands: Oaks in California's Changing Landscape*. 2001 October 22-25, San Diego, CA. Standiford RB, McCreary D, Purcell KL (Tech. Coord). GEN TECH REP PSW-GTR-184. Albany, CA. Pac. SW Research Station, USFS, USDA, pp. 427-439.
- Mylecraine KA, Kuser JE, Zimmermann GL, Smouse PE, Meagher TR (2003) Allozyme variation within and among selected populations of Atlantic white-cedar, *Chamaecyparis thyoides*. In: *Atlantic White Cedar Restoration Ecology and Management Symposium*, RB Atkinson, RT Belcher, DA Brown (Eds.). Christopher Newport Univ, Newport News. pp.271-287.
- Mylecraine KA, Kuser JE, Zimmerman GL, Smouse PE (2005) Geographic variation in Atlantic white-cedar: Preliminary provenance results. In: *Atlantic White Cedar: Ecology, Restoration and Management: Proc Arlington Echo Symp*. MK Burke, P Sheridan (Eds.) Gen Tech Rep SRS-XX. USDA, USFS Southern Res Stat, Asheville, NC. pp.271-287.
- González Martínez SC, Robledo-Arnuncio JJ, Smouse PE (2005) The consequences and implications of introgression in the conservation of forest trees. In: *Gene Flow and Germplasm Management Issues in Genetic Resources*, MC de Vicente (Ed.). IPGRI, Rome. pp. 17-23.

BOOKS & BOOK CHAPTERS (continued)

- Mylecraine KA, Kuser JE, Zimmermann GL, Smouse PE (2006) Geographic variation in Atlantic white-cedar. Preliminary provenance results. In: *Proceedings of the Arlington Echo Symposium*, MK Burke, P Sheridan (Eds.) June 2-4, 2003, Millersville, MD. GEN TECH REP SRS-91, USDA FOR SERV, SOUTHERN RES STAT, Asheville, NC. pp. 38-43.
- Robledo-Arnuncio JJ, González-Martínez JC, Smouse PE (2010) Theoretical and practical considerations of gene flow. pp. 147-162, In: *Forests and Genetically Modified Trees* (YA El-Kassaby, JA Prado (Eds.)), FAO, United Nations, Rome.
- Bird CE, Karl SA, Smouse PE, Toonen RJ (2011) Detecting and measuring genetic differentiation. In: *Phylogeography and Population Genetics in Crustacea*, C Held, S Koenemann, CD Schubart (Eds.). Taylor & Francis Group Llc, Boca Raton. pp. 31-55.

TECHNICAL REPORTS

- Hayes P and Smouse P (Eds.) (2001) *Producers and Consumers, Processes and Disposers: New Partners for a Sustainable Environment*. PROC NEW JERSEY SOLID WASTE SUMMIT, Summit Report, <http://www.swpg.rutgers.edu>. New Brunswick, NJ. 26 pp.
- Committee on Atlantic Salmon in Maine (2002) *Genetic Status of Atlantic Salmon in Maine: Interim Report*. NATL RES COUN, NATL ACAD PRESS, Washington, DC. 71 pp. (Smouse contrib).
- Committee on Atlantic Salmon in Maine (2004) *Atlantic Salmon in Maine*. NATL RES COUN, NATL ACAD PRESS, Washington, DC. 276 pp. (Smouse contributing).
- ISAB (2006-1): *2005 Spill Effectiveness Evaluation* http://www.nwcouncil.org/library/isab/isab_2006-1.htm (Smouse contributing)
- ISAB (2006-2): *2006 COMPASS Evaluation* http://www.nwcouncil.org/library/isab/isab_2006-2.htm (Smouse contributing)
- ISAB (2006-5): *2006 Columbia River Basin Data Center Evaluation* http://www.nwcouncil.org/library/isab/isab_2006-5.htm (Smouse contributing)
- ISAB (2006-6): *COMPASS Model Development* http://www.nwcouncil.org/library/isab/isab_2006-6.htm (Smouse contributing)
- ISAB (2006-7): *Review of the COMPASS Model, Version 1.0* http://www.nwcouncil.org/library/isab/isab_2006-7.htm (Smouse contributing)
- ISAB (2007-1): *Latent Mortality Report* http://www.nwcouncil.org/library/isab/isab_2007-1.htm (Smouse contributing)
- ISAB/ISRP (2007-6): *Review of the Comparative Survival Study's Ten-Year Retrospective Summary Report* http://www.nwcouncil.org/library/isab/isabisrp_2007-6.htm (Smouse contrib.)
- ISAB (2008-1): *Review of the Interior Columbia River Technical Recovery Team's Analyses of Survival Changes Needed to Meet Viability Criteria* http://www.nwcouncil.org/library/isab/isab_2008-1.htm (Smouse contributing)
- ISAB (2008-3): *Review of the Comprehensive Passage Model (COMPASS), Version 1.1* http://www.nwcouncil.org/library/isab/isab_2008-3.htm (Smouse contributing)
- ISAB (2008-4): *Non-native Species Impacts on Native Salmonids in the Columbia River Basin*. http://www.nwcouncil.org/library/isab/isab_2008-4.htm (Smouse contributing)
- ISAB (2008-5): *Review of Seasonal Transport Benefit*. http://www.nwcouncil.org/library/isab/isab_2008-5.htm (Smouse contributing)

TECHNICAL REPORTS (continued)

- Novy A, Smouse PE, Hartman JM, Struwe L, Honig J, Miller C, Alvarez M, Bonos S (2009) Genetic variation of *Spartina alterniflora* Loisel. in the New York metropolitan area and its relevance for marsh restoration. Report to the US Army Corps of Engineers.
- ISRP/ISAB (2009-1): *A Comprehensive Review of Columbia River Basin Fish Tagging Technologies and Programs*. http://www.nwcouncil.org/library/isab/isabisrp_2009-1.htm. (Smouse contributing)
- ISAB (2009-3): *Comments on draft Tribal Pacific Lamprey Restoration Plan for the Columbia River Basin*. http://www.nwcouncil.org/library/isab/isab_2009-3.htm (Smouse contributing)
- ISAB (2010-1): *Scoping for the Independent Scientific Advisory Board Review of Fish Passage Center Products*. http://www.nwcouncil.org/library/isab_2010-1.htm (Smouse contributing)
- ISAB (2010-2): *Review of NOAA Fisheries'2010 Low Flow Fish Transport Operations Proposal*. http://www.nwcouncil.org/library/isab_2010-1.htm (Smouse contributing)
- ISAB (2010-4): *Memorandum: ISAB Review of FPC-2009 Annual Report*. http://www.nwcouncil.org/library/isab/isab_2010-4.htm (Smouse contributing)
- ISAB (2010-5): *Review of the Comparative Survival Study 2010 Draft Annual Report*. http://www.nwcouncil.org/library/isab/isab_2010-5.htm (Smouse contributing)
- ISRP (2010-36): *Second Follow-up Review of CRITFC Fish Accord Proposal, Influence of Environment and Landscape on Salmonid Genetics, 2009-005-00*. http://www.nwcouncil.org/library/isrp/isrp_2010-36.htm (Smouse contributing)
- ISAB (2011-1): *Columbia River Food Webs: Developing a Broader Scientific Foundation for Fish and Wildlife Restoration*. <http://www.nwcouncil.org/library/isab/isab2011-1.pdf> (Smouse contributing)
- ISAB (2011-4): *Using a Comprehensive Landscape Approach for More Effective Conservation and Restoration*. <http://www.nwcouncil.org/library/isab/isab2011-4.pdf>. (Smouse contributing)

COPYRIGHTED EDUCATIONAL SOFTWARE RELEASES

- Peakall R, Smouse PE (1996) *Population and Biogeographic Analysis* © AUST NATL UNIV, Canberra, AU.
- Peakall R, Smouse PE (1998) *Population and Biogeographic Analysis* © AUST NATL UNIV, Canberra, AU.
- Peakall R, Smouse PE (2001) *Genetic Analysis in Population Genetics* © AUST NATL UNIV, Canberra, AU.
- Peakall R, Smouse PE (2005) *GenAlEx 6: Genetic Analysis in Excel. Population Genetic Software for Teaching and Research* © AUST NATIONAL UNIV, Canberra, AU. <http://www.anu.edu.au/BoZo/GenAlEx/>
- Peakall R, Smouse PE (2009) *GenAlEx 6.3. Genetic Analysis in Excel. Population Genetic Software for Teaching and Research* © AUST NATIONAL UNIV, Canberra, AU. <http://www.anu.edu.au/BoZo/GenAlEx/>
- Peakall R, Smouse PE (2010) *GenAlEx 6.4. Genetic Analysis in Excel. Population Genetic Software for Teaching and Research* © AUST NATIONAL UNIV, Canberra, AU. <http://www.anu.edu.au/BoZo/GenAlEx/>
- Peakall R, Smouse PE (2012) *GenAlEx 6.5. Genetic Analysis in Excel. Population Genetic Software for Teaching and Research* © AUST NATIONAL UNIV, Canberra, AU. <http://biology.anu.edu.au/GenAlEx/>

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS

- Kosuda K, Smouse PE (1973) On the mode of selection in *Escherichia coli*. JAP GEN SOC MTG.
- Smouse PE, Weiss KM (1973) An ecologically stable model of population structure. AM ASSOC PHYS ANTHROPOL PROC
- Smouse PE (1973) Estimation and testing of multiple-locus gametic disequilibrium. GENETICS 74:S259-S260.
- Spielman RS, Smouse PE (1974) Genetic and anthropometric discrimination among Yanomama Indian villages. PROGRAM, AM SOC HUM GENET MTG. p. 82A.
- Smouse PE (1975) Models of frequency and density dependent selection. GENETICS 80:S76-S77.
- Crowe RR, Smouse PE (1975) Age-dependent penetrance in manic-depressive illness, and its implications for genetic analysis. PROGRAM, AM SOC HUM GENET MTG.
- Smouse PE, Kosuda K (1977) Frequency and density-dependent selection in *Escherichia coli* K-12. GENETICS 86:S60.
- Smouse PE (1978) Multiple locus problems in human genetics. GENETICS 88:S93.
- Smouse PE, Williams RC (1978) An alternative assessment strategy for HLA-disease associations. PROGRAM, AM SOC HUM GENET MTG. p. 113A.
- Smouse PE (1979) Book Review: *Proceedings of the International Conference on Quantitative Genetics*, E Pollak, O Kempthorn and TB Bailey, Jr. (eds.). Iowa State University Press, Ames, Iowa. AM J HUM GENET 31:754-755.
- Feinberg M, Carroll BJ, Smouse PE, Rawson S, Haskett RF, et al. (1979) Comparison of physician- and self-ratings of depression. ANN MTG SOC BIOL PSYCHIAT. Abstract 80.
- Smouse PE, Valka B (1979) Genetic fixation and balanced polymorphism of competing *Escherichia coli* genotypes grown on single limiting substrate resources. GENETICS 91: S120.
- Wood JW, Smouse PE (1980) Density dependent trends in age-specific fertility and mortality among the Gainj of Papua New Guinea: A maximum likelihood analysis of longitudinal census data. AM J PHYS ANTHROPOL 52:294.
- Smouse PE, Vitzthum VJ, Neel JV (1980) The impact of random founder effect and lineal fission on the phyletic divergence of small human groups: A case study among the Yanomama. AM J PHYS ANTHROPOL 52:282.
- Long JC, Smouse PE (1981) Genetic analysis of admixture proportions: A hypothesis testing framework applied to a South American Indian example. AM J PHYS ANTHROPOL 54:247.
- Smouse PE, Adams J (1983) Discussion on the use of relatives in paternity analysis. In: *Inclusion Probabilities in Parentage Testing*. AM ASSOC BLOOD BANKS. Arlington, VA. pp. 518-522.
- Smouse PE (1983) Evolution. In: *Saunders Dictionary & Encyclopedia of Laboratory Medicine and Technology*, JL Bennington (ed.). Saunders, Philadelphia. pp. 551-552.
- Smouse PE, Wood JW, Long JC (1984) Density dependent dispersal among human populations in highland Papua New Guinea. AM J PHYS ANTHROPOL 63:220.
- Smouse PE, Wood JW (1985) Functional models of migration and their genetic implications: An analysis of the Gainj of Papua New Guinea. AM J PHYS ANTHROPOL 66:232-233.
- Weiss KM, Chakraborty R, Smouse PE (1985) Familial aggregation of cancer in Laredo, Texas. AM J HUM GENET 37:A42.
- Smouse PE, Chakraborty R (1985) Strategies for paternity testing with restriction fragment length polymorphisms (RFLP's). AM J HUM GENET 37:A207.
- Smouse PE (1986) The neolithic transition and the genetics of populations in Europe: A review. EVOLUTION 40:444-445.
- Chakraborty R, Smouse PE (1986) Migration and spread of genes. AM J PHYS ANTHROPOL 69:186.

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS (continued)

- Bush RM, Smouse PE, Ledig FT (1987) The relationship between heterozygosity and growth rate in pitch pine (*Pinus rigida* Mill.). GENETICS 116:S42.
- Smouse PE, Li W-H (1987) Likelihood analysis of mtDNA restriction patterns for the human-chimpanzee-gorilla trichotomy. GENETICS 116:S23.
- Chakraborty R, Meagher T, Smouse PE (1987) Paternity exclusion and expected proportion of offspring with unambiguous paternity in natural populations based on genetic markers. GENETICS 116:S42.
- Gorski JL, Chakraborty R, Smouse PE (1987) Gene mapping by molecular analysis of reciprocal chromosomal rearrangements: Strategic considerations. AM J HUM GENET 41: A216.
- Chakraborty R, Smouse PE, Neel JV (1987) Allelic spectrum analysis in Amerindian tribes: Excesses of rare alleles. AM J HUM GENET 41:D252.
- Chakraborty R, Smouse PE, Neel JV (1988) Estimation of effective population size and locus-specific mutation rates from allele frequency data. GENOME 30: S416.
- Chakraborty R, Smouse PE, Neel JV (1988) Relative roles of mutation and migration in the genetic differentiation of twelve South and Central American Indian tribes. AM J PHYS ANTHROPOL 75:195.
- Smouse PE, Chakraborty R, Neel JV (1988) Amalgamation and the allele frequency spectrum in human populations. GENOME 30:S416.
- Smouse PE (1988) Combining genetic information from two-point testcrosses and recombinant inbred lines. J HEREDITY 79:478-479.
- Deka R, Kamboh I, Ferrell RE, Smouse PE (1989) Gene and gene product variation at the transferrin locus in Melanesians of New Guinea. AM J PHYS ANTHROPOL 78:211.
- Deka R, Smouse PE, Chakravarti A, Ferrell RE (1990) Population differentiation using hypervariable single locus markers. AM J PHYS ANTHROPOL 81:213-214.
- Smouse PE (1990) Review of: *Principles of Population Genetics*. AM J HUM GENET 47:761-762.
- Bush RM, Smouse PE (1990) Evidence for the adaptive significance of allozymes in forest trees. PROG INTERNAT SYMP POP GENET FOR TREES. p 12.
- Bush RM, Smouse PE (1990) Electrophoretic genotype and fitness in *Pinus taeda*. PROG INTERNAT SYMP POP GENET FOR TREES. p 28.
- Excoffier L, Smouse PE, Quattro JM (1991) Regional divergence of human mtDNA types. AM J PHYS ANTHROPOL Suppl. 12:71.
- Smouse PE, Barrantes R (1991) Parallel genetic and linguistic evolution among the Chibcha-speaking peoples of lower Central America. AM J PHYS ANTHROPOL Suppl 12:164.
- Smouse PE, Huff DR (1992) Mathematical and molecular identification of outbreeding grasses. PROC. 32ND GRASS BREEDERS WORK PLAN CONF. p 25.
- Huff DR, Bara JM, Panem CB, Smouse PE (1993) RAPD marker fingerprinting of endophytic fungal isolates. INTERNAT ENDOPHYTE CONF Massey University, Palmerston North, New Zealand. Suppl.
- Mills LS, Smouse PE (1993) Inbreeding in remnant populations: Does it Matter? PROG VII SOC CONSERV BIOL p 84.
- Smouse PE (1993) Fluctuating asymmetry and genetic heterozygosity: Some thoughts on measurement techniques. PROG VII SOC CONSERV BIOL. p 108.
- Huff DR, Peakall R, Smouse PE (1993) RAPD variation in natural populations of outcrossing diploid buffalograss (*Buchloë dactyloides*). PROC 2ND ANN RUTGERS TURFGRASS SYMP p 13.
- Excoffier L, Smouse PE (1993) How to make molecular phylogenies with the best geographic consistency. PROC IV CONGR EUROP SOC EVOL BIOL p 123.

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS (continued)

- Peakall R, Huff DR, Smouse PE (1993) Allozyme and silver stained RAPD variation in Buffalo grass. PROC XVII INTERNAT GENET CONGR p 147.
- Smouse PE, Kobak CJ (1994) Statistical implications of molecular data for mixed stock fishery analysis. PROGR AM FISH SOC 124th ANN MEET pp 65-66.
- Brown BL, Epifanio JM, Kobak CJ, Smouse PE (1996) Critical tests of variation indicate mtDNA characters are powerful for mixed stock analysis. PROC SECOND INTERNAT FISH CONGR VOL 1: p 74.
- Smouse PE, Meagher TR, Kobak CJ (1996) Parentage analysis in *Chamaelirium luteum*: Why do some males have disproportionate reproductive success? PROGR 4TH INTERNAT DNA FINGERPRINT CONF pp. 53-54.
- Chevillon C, Kolman CJ, Smouse PE, Bermingham E (1997) A comparison of mtDNA control region sequences and their restriction polymorphism for native Panamanians and their Old World relatives. J EVOL BIOLOGY
- Sork VL, Campbell D, Dyer R, Fernandez J, Nason J, Petit R, Smouse P, Steinberg E (1998) *Proceedings from a Workshop on Gene Flow in Fragmented, Managed, and Continuous Populations*. NCEAS, Santa Barbara CA. Research Pap 3. <http://www.nceas.ucsb.edu/papers/climate.pdf>
- Smouse PE (1998) Thoughts on a genetic structure-like approach to pollen flow. In: *Theoretical and Empirical Approaches to the Study of Gene Flow in Fragmented, Managed, and Continuous Populations*, NCEAS WORKSH REP, Sork VL (ed.). <http://www.nceas.ucsb.edu/fmt/doc/?cgi-bin/ppage.pl?project=150>.
- Smouse PE, Kaufman SR, Alvarez-Buylla ER (1998) Use of parentage analysis in the assessment of gene flow. In: *Theoretical and Empirical Approaches to the Study of Gene Flow in Fragmented, Managed, and Continuous Populations*, NCEAS WORKSHOP REP, Sork VL (ed.). <http://www.nceas.ucsb.edu/fmt/doc/?cgi-bin/ppage.pl?project=150>.
- Smouse PE, Peakall R (1998) Micro-spatial autocorrelation analysis for multiple-locus, multi-allelic genetic data. In: *Theoretical and Empirical Approaches to the Study of Gene Flow in Fragmented, Managed, and Continuous Populations*, NCEAS WORKSHOP REP, Sork VL (ed.). <http://www.nceas.ucsb.edu/fmt/doc/?cgi-bin/ppage.pl?project=150>.
- Smouse PE, Dyer RJ, Westfall RD, Sork VL (1999) Two-generation analysis of pollen flow across the landscape. PROC XVI INTERNAT BOTAN CONGR p. 99.
- Smouse PE (1999) Population-specific genetic fingerprinting for individuals. PROG 15TH BIENNIAL INTERNAT ESTUARINE RES FEDER CONF p. 97.
- Smouse PE (2000) Reticulation in phylogenetic analysis. PROC CLASS SOC NORTH AMER CONF
- Smouse PE, Austerlitz F, Sork VL, Dyer RJ, Westfall RD (2000) Two-generation analysis of pollen flow, theory and practice. PROC SYMP MODELING & EXPERIMENTAL RESEARCH ON GENETIC PROC IN TROP AND TEMP FORESTS. Sylvolab Guayne
- Sork VL, Davis FW, Smouse PE, Dyer RJ, Fernandez JF (2001) Pollen movement in declining populations of California Valley oak, *Quercus lobata*: Where have all the fathers gone? PROG 2001 MEETING, WEST FOR GENET ASSOC
- Smouse PE, Sork VL, Austerlitz F, Dyer RJ, Irwin AJ, Westfall RD (2001) Two-generation analysis of pollen flow, theory and practice. PROG 2001 MEETING, WEST FOR GENET ASSOC
- Mylecraine KA, Kuser JE, Zimmermann GL, Smouse PE, Meagher TR (2001) Rangewide allozyme variation in Atlantic white-cedar (*Chamaecyparis thyoides* L.) BSP PROG 2001 MEETING, WEST FOR GENET ASSOC

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS (continued)

- Austerlitz F, Smouse PE, Dyer RJ, Westfall RD, Sork VL (2001) Two-generation analysis of pollen flow across a landscape. PROC 8TH CONGR, EUROPEAN SOC EVOL BIOL p. 72.
- Sork VL, Davis FW, Smouse PE, Dyer RJ (2001) Reproductive patterns in a declining population of California Valley oak (*Quercus lobata* Neé). PROC CALIF HARDWOOD SYM PROC EUROFOR/IUFRO CONF, *Dynamics and Conservation of Genetic Diversity in Forest Ecosystems*. Strasbourg. p. 72.
- Smouse PE, Sork VL (2002) Measuring pollen flow in forest trees: A comparison of alternative approaches. PROC EUROFOR/IUFRO CONF, *Dynamics and Conservation of Genetic Diversity in Forest Ecosystems*. Strasbourg. p. 11.
- Sork VL, Smouse PE, Dyer RJ (2002) Contemporary pollen movement within and among wind- and insect pollinated tree species. PROC EUROFOR/IUFRO, CONF *Dynamics and Conservation of Genetic Diversity in Forest Ecosystems*. Strasbourg. p. 28.
- Irwin AJ, Bono L, Hamrick J, Godt MJ, Smouse PE (2003) Temporal variation in the pollen donor pool of *Albizia julibrissin*. GSC BULLETIN 34(2):49-50.
- Mylecraine KA, Kuser JE, Zimmerman GL, Smouse PE (2003) Rangewide genetic variation in Atlantic white-cedar: First year provenance results. ATLANTIC WHITE CEDAR MANAGMT RESTOR SYMP, June 2-4, 2003, Millersville, MD. pp. 18-19.
- Smouse PE, Bono LM, Irwin AJ, Hamrick JL, Godt MJW (2003) Temporal Auto-correlation of Pollen Variation in *Albizia julibrissin*. PROG NORTHEAST ECOL EVOL CONF 2003, New Brunswick. <http://www.eden.rutgers.edu/~ecogsa/abstract.htm> #67.
- Mylecraine KA, Kuser JE, Smouse PE, Zimmermann GL (2003) Rangewide allozyme variation in Atlantic white-cedar: Geographic patterns and implications for historical biogeography. PROG BOT SOC AMER MEET (2003) pp. 50-51.
- Mylecraine KA, Kuser JE, Zimmermann GL, Smouse PE, Struwe L (2003) Varietal status of *Chamaecyparis thyoides* var. *henryae* supported by allozyme and morphological data. PROG BOT SOC AMER MEET pp. 55-56.
- Soto A, Robledo-Arnuncio JJ, González Martínez SC, Smouse PE, Gómez A, Alía R (2004) Contrasting patterns of genetic diversity in the six Iberian pine species. In: B Li and S McKeand (eds.) *Forest Genetics and Tree Breeding in the Age of Genomics: Progress and Future*. IUFRO JOINT CONF DIVIS 2. PROC 2004, pp. 186-188. Also available in the form: http://www.ncsu.edu/feop/iufro_genetics2004/proceedings.pdf
- Smouse PE, Sork VL, Davis FD (2004) Propagule flow in *Quercus lobata* from the Mediterranean vegetation zone of California. In: *Plant Evolution in Mediterranean Climate Zones*. PROGR IXTH IOBP MEET p. 101.
- Mylecraine KA, Smouse PE, Kuser JE, Zimmermann GL, Struwe L (2004) Geographic variation in Atlantic white-cedar, *Chamaecyparis thyoides* (Cupressaceae). BOT SOC AMER MEET p. 76.
- Smouse PE, Robledo-Arnuncio JJ (2004) Defining pollen structure as the probability of paternal identity. In: B Li and S McKeand (eds.) *Forest Genetics and Tree Breeding in the Age of Genomics: Progress and Future*. IUFRO JOINT CONF DIV 2 PROC 2004, pp. 148-150. Also available as http://www.ncsu.edu/feop/iufro_genetics2004/proceedings.pdf .
- Sork VL, Grivet D, Smouse PE (2004) A new approach to the study of seed dispersal: a temperate example for tropical systems. In: *Measuring Tropical Seed Dispersal Using Molecular Markers*: Abstr ASSOC TROP CONSERV BIOL, Miami 2004. pp. 111-112.
- Sork VL, Smouse PE (2005) Landscape gene flow in contemporary tree populations. PROC ANN MEET US-INTERNAT ASSOC LANDSCAPE ECOLOGISTS, Syracuse, NY p. 178.

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS (continued)

- Sork VL, Grivet D, Smouse PE (2005) Gene flow in California valley oak varies both spatially and temporally. In: PROC XVII INTERNAT BOTAN CONGR, Vienna, p. 210.
- Smouse PE, Hamrick JL, Trapnell DW, Hamrick K, Robledo-Arnuncio JJ, Gonzales E (2005) Full-sib analysis of pollen flow and pollen structure in Guanacaste (*Enterolobium cyclocarpum*) in the Costa Rican dry tropical forest. PROG 50TH MEET WESTERN FOREST GENET ASSOC <http://www.fsl.orst.edu/wfga/WFGA2005Abstracts.pdf>
- Smouse PE (2006) Análisis parental en árboles de bosque: estructura de propágulos y flujo a través del paisaje. XXII REUNIÓN ARGENTINA DE ECOLOGÍA: Fronteras en Ecología: Hechos y Perspectivas, 22 - 25 de Agosto de 2006, Córdoba, AR. p. 356.
- Mylecraine KA, Zimmermann GL, Kuser JE, Struwe L, Smouse PE (2006) Developing management and restoration strategies for Atlantic white-cedar (*Chamaecyparis thyoides*) based on regional patterns of genetic variation. The Ecology and Management of Atlantic white-cedar Ecosystems Conference, Atlantic City, New Jersey, June 2006.
- Smouse PE, Gonzales E, Hamrick JL (2006) El impacto de diferentes tipos de disturbios en el paisaje sobre la estructura genética a escala reducida en *Enterolobium cyclocarpum*. XXII REUNIÓN ARGENTINA DE ECOLOGÍA: Fronteras en Ecología: Hechos y Perspectivas, 22 - 25 de Agosto de 2006, Córdoba, AR. p. 376.
- Struwe L, Lathrop RG, Smouse PE (2006) Spatial evolutionary and ecological vicariance analysis of biodiversity - a new interdisciplinary approach. PROG 2006 AM SOC BOT CONF <http://2006.Botanyconference.org/engine/search/index.php?func=detail&aid=518>
- Smouse PE, Robledo-Arnuncio JJ, González-Martínez SC (2006) Genetic analysis of propagule flow from genetically modified forest trees. In: *Ecological Risks Associated with the Products of Forest Biotechnology*. PROGR INST FOR BIOTECH CONF, Vancouver, BC, 21 March 2006.
- Robledo-Arnuncio JJ, Austerlitz F, Smouse PE (2006) A novel indirect method of estimating the pollen dispersal curve that is independent of effective density. In: *Population Genetics and Genomics of Forest Trees. from Gene Function to Evolutionary Dynamics and Conservation*. PROG JOINT IUFRO CONF, Alcalá de Henares, SP. p. I-SIII.9.
- Smouse PE, Hamrick JL, Gonzales E, Robledo-Arnuncio JJ (2006) A comparison of the temporal pattern of pollen structure in *Enterolobium cyclocarpum* from four different locations in Guanacaste Province, Costa Rica. In: *Population Genetics & Genomics of Forest Trees. from Gene Function to Evolutionary Dynamics and Conservation*. PROG JOINT IUFRO CONF, Alcalá de Henares, SP. p. I-SIII.11.
- Grivet D, Sork VL, Smouse PE (2006) Spatial genetic pattern of dispersed seedlings in the California valley oak. In: *Population Genetics & Genomics of Forest Trees. from Gene Function to Evolutionary Dynamics and Conservation*. Prog Joint IUFRO Conf, Alcalá de Henares, SP. p. I-SIII.4.
- Gonzales E, Hamrick JL, Smouse PE, Peakall R (2006) The impact of landscape disturbance on fine scale genetic structure in the Guanacaste tree (*Enterolobium cyclocarpum*) in Costa Rica. In: *Population Genetics & Genomics of Forest Trees. from Gene Function to Evolutionary Dynamics and Conservation*. PROG JOINT IUFRO CONF, Alcalá de Henares, SP. p. I-P.25.
- Pluess AR, Sork VL, Dolan B, Davis FW, Merg K, Grivet D, Papp J, Smouse PE (2006) Short distance dispersal patterns of pollen in California valley oak, *Quercus lobata* (Fagaceae). In: *Population Genetics & Genomics of Forest Trees. from Gene Function to Evolutionary Dynamics and Conservation*. PROG JOINT IUFRO CONF, Alcalá de Henares, SP. p. I-P.49.

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS (continued)

- Struwe L, Smouse PE, Lathrop RG (2007) Biogeography and environmental response through time using spatial evolutionary vicariance analysis (SEEVA) in notropical gentians. BOT PLANT BIOL JOINT CONF 2007. <http://2007.botanyconference.org/engin/search/768.html>
- Nathan R, Getz WM, Holyoak M, Kadmon R, Revilla E, Saltz D, Smouse PE (2007) What movement ecology is. 92ND ESA ANN MEET <http://eco.confex.com/eco/2007/techprogram/P1135.HTM> (Symp. 22-1)
- Smouse P, Peakall R, Gonzales E, Sork E (2007) Some challenges for fine-scale structure analysis. 3rd INTERNAT CONSERV GENET SYMP PROGR p.13.
- Sork VL, Grivet D, Smouse PE (2007) A genetic structure analysis of dispersed seeds and seedlings in California valley oak, *Quercus lobata*. JOINT SER/ESA ANN MEET COS 146-1, <http://eco.confex.com/eco/2007/techprogram/P8180.HTM>.
- Scofield DG, Smouse PE, Sork VL (2007) Alternative methods for modelling pollen dispersal. JOINT SER/ESA MEET. <http://eco.confex.com/eco/2007/techprogram/P7492.HTM>, COS 32-3.
- Sork VL, Grivet D, Smouse PE (2007) Genetic consequences of contemporary seed dispersal in California valley oak, *Quercus lobata*. ATBC SYMP Tropical Oaks: *Diversity, Ecology and Conservation*, Morelia, México, p. 120.
- Gonzales E, Smouse PE, Hamrick JL (2007) Impact of landscape disturbance on pollen-mediated gene dispersal in a dry tropical tree, *Enterolobium cyclocarpum*. 3rd INTERNAT CONSERV GENET SYMP PROGR p.16.
- Smouse PE, Irwin AJ, Sork VL, Scofield DC (2008) The fractal dimension of super-diffusive seed dispersal in coast live oak (*Quercus agrifolia*). In: *GPS-Telemetry Data: Challenges and Opportunities for Behavioural Ecology Studies*. CENTRO ECOL ALPINA, FOND EDMUND MACH, Trento, IT.
- Smouse PE, Sork VL, Grivet D, Scofield D (2008) Maternal analysis of Valley oak (*Quercus lobata* Née) recruits, using mixed pericarp and seedling assay. In: *Adaptation, Breeding and Conservation in the Era of Forest Tree Genomics and Environmental Change*. PROC IUFRO-CTIA JOINT CONF, Québec, CAN p. 113.
- Moreno AC, Marchelli P, Smouse PR, Gallo LA (2008) Importancia relativa de los árboles de *Araucaria araucana* como captadores de diversidad genética. REUNION ARGEN ECOLÓGICA, 23-28 Noviembre, 2008. San Luis, AR.
- Novy A, Smouse PE, Hartman JM, Struwe L, Honig J, Miller C, Alvarez M, Bonos S (2009) Genetic variation of *Spartina alterniflora* Loisel. in the New York metropolitan area and its relevance for marsh restoration. SOC ECOL RESTOR MID-ATL CHAPT ANN MEET New Brunswick, NJ. March 13-14, 2009. Poster.
- Smouse PE (2010) How many SNPs are enough? MOLEC ECOL 19:1265-1266.
- Marchelli P, Smouse PE, Gallo L (2010) Estimation of mating system parameters and the pollen dispersal kernel in *Nothofagus nervosa*. In: *Gondwana Reunited: A Southern Perspective for a Changing World*. PROC VI SOUTH CONNECT CONF, Bariloche, AR p.153-154.
- Smouse PE, Peakall R (2010) Molecular diversity analysis of cpDNA haplotypes: Cryptic species in the Australian orchid genus *Chiloglottis*. In: *Gondwana Reunited: A Southern Perspective for a Changing World*. PROC VI SOUTH CONNECT CONF, Bariloche, AR. p.12-13.
- Scofield D, Sork V, Smouse P, Thompson P, Grivet D (2010) Using animal foraging models to understand patterns of seed movement in oaks. In: *5th International Symposium - Workshop on Frugivores and Seed Dispersal*, 13-18 June 2010, Le Corum – Montpellier, France. <http://www.fsd2010.org/program>.

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS (continued)

- Struwe L, Heiberg E, Haag S, Lathrop R, Smouse P (2010) Tracking evolutionary clades across the space-time-environmental continuum. <http://2010.botanyconference.org/engine/search/373.html>.
- Smouse PE, Focardi S, Moorcroft PR, Kie JG, Forester JD, Morales JM (2010) Recent advances in stochastic modeling of animal movements. 17th Ann. Wildlife Soc. Conf, Snowbird UT, October 2-6, 2010. <http://www.abstractsonline.com/plan/ViewAbstract.aspx?mID=2581&sKey=f9de99a-4490-4383-bdee-22d9bc936984&cKey=25dce6c5-609f-4baa-90f0-a3553a6bd614&mKey=%7b1E27483B-A2D6-4715-B340-E5EB058B9D05%7d>.
- Green-Beach E, Guo X, Smouse P, Bushek D (2011) Population structure of oysters on Martha's Vineyard, MA, in response to selection by *Perkinsus marinus*, using microsatellite markers. NATL SHELLFISH ASSOC MEET, Baltimore, MD. Mar.27-31, 2011.
- Novi A, Smouse PE, Hartman JM, Honig J, Miller C, Alvarez M (2011) Genetic variation of *Spartina alterniflora* Loisel. in the New York metropolitan area and its relevance for marsh restoration. BOT SOC AMER MEET. Poster
- Souto CP, Smouse P (2011) Patrones concordantes de variación genética y morfológica a lo largo del paisaje en poblaciones de *Embothrium coccineum* de los bosques templados de la Patagonia. ARG SOC LANDSC ECOL III Meeting, Bariloche, AR.
- Timmers MA, Bird CE, Skillings D, Smouse PE, Toonen RJ (2011) Central Pacific Crown-of-Thorns sea star outbreaks are genetically isolated events. WEST SOC NATUR, Vancouver, WA.
- Bird C, Timmers M, Smouse PE, Toonen R (2012) Haplotypes, genetic distance and the inference of dispersal patterns, using analysis of molecular variance. SOC INTEGR COMPAR BIOL MEET
- Medica DL, Smouse PE, Sukhdeo MVK (2012) Stage-specific demographic models of *Haemonchus contortus* nematode transmission, incorporating seasonal cycling and density dependence. AM SOC PARASIT MEET, Richmond, VA.
- Smouse PE, Sork VL, Scofield DG, Grivet D (2012) The genetic pattern consequences of avian seed dispersal for Valley oak recruits. FIRST JOINT CONGR EVOL BIOL, Ottawa, ON, July 5-10. p. 59.
- Smouse PE, Gonzales EB, Robledo-Arnuncio JJ (2013) Comparative analyses of the pollen donor pool of *Enterolobium cyclocarpum* among years and landscapes. *New Frontiers in Tropical Biology: The Next 50 Years*. Joint 50th Anniversary Meeting of ATBC and OTS, San José CR, 23-27 June 2013. p. 52.
- Campagne P, Smouse PE, Sork VL, Grivet D (2012) A multivariate approach to anisotropic spatial autocorrelation: Example of a California valley oak population. FIRST JOINT CONGR EVOL BIOL, Ottawa ON, July 5-10. p. 130. Poster.
- Smouse PE, Campagne P, Souto C (2013) Concordant geographic patterns of climate/morphology/genotype for *Embothrium coccineum*, revealed by multivariate anisotropic autocorrelation analysis. VII SOUTH CONNECT CONGR, Jan 21-25, Dunedin, NZ. p. 119.
- Smouse PE, Sork VL, Scofield DG, Grivet D (2013) Landscape genetic consequences of bird, gravity and wind dispersed *Quercus lobata* Née propagules. WEST FOR GENET ASSOC MEET, Whistler, BC, 22-25 July 2013. p. 59.
- Gonzales EB, Hamrick JL, Smouse PE (2013) Insights into seed dispersal and seedling recruitment of *Enterolobium cyclocarpum* in disturbed landscapes. *New Frontiers in Tropical Biology: The Next 50 Years*. Joint 50th Anniversary Meeting of ATBC and OTS, San José CR, 23-27 June 2013. p. 52.

ABSTRACTS, LETTERS, OTHER MINOR CONTRIBUTIONS (continued)

- Thompson P, Sork VL, Smouse PE (2013) The effects of bat pollinator movement on genetic structure and diversity of the tree *Crescentia alata*. *New Frontiers in Tropical Biology: The Next 50 Years*. Joint 50th Anniv. Meeting of ATBC and OTS, San José CR, 23-27 June 2013. p. 70.
- Ledig FT, Hom JL, Smouse PE (2014) Fire ecology of the New Jersey Pine Plains. Workshop, YALE SCH FOREST & ENV STUD & TALL TIMBERS RES STAT & LAND CONSERV, New Haven, CT, USA.
- Gallagher M, Skowronski N, Clark K, Farrell M, Mueller E, Thomas JC, El Houssami M, Simeoni A, Kremens R, Heilman W, Hom J, Patterson M, Kiefer M, Bian X, Mell W, Restaino J, Grabosky J, Lathrop R, Smouse P, Green E, Maghirang M, Filkov A, Rybak A, (2014) Evaluation of satellite imagery based and visual estimation methods for quantifying wildland fire severity in the New Jersey Pinelands. Mid-Atlantic Regional Climate Symposium. 21 November 2014. New Brunswick, NJ.
- Karlin EF, Smouse PE (2016) Genetic diversity in double allopolyploid *Sphagnum* \times *falcatulum* Besch.: Hypervariable markers tell just part of the story. VIII SOUTH CONNECT CONGR, Punta Arenas, Chile, January 19-23, 2016.
- Crane BS, Cruse-Sanders JM, Downing J, Hamrick JL, Havens K, Highland A, Kaye TN, Kramer AT, Lonsdorf EV, Novy A, Ramp Neale JM, Smouse P, Tallamy D (2017) When does local matter? A new tool to assess risks and benefits when selecting native plant materials for planting. 6th GLOB BOT GARD CONGR, Geneva, Switzerland, June 26-30, 2017.