PERSONAL DATA

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EDUCATION

1991–1994	University of Michigan, Ann Arbor, Michigan; Ph.D. (Epidemiology)
1988–1991	University of Michigan, Ann Arbor, Michigan; M.A. (Applied Statistics)
1986–1992	University of Michigan, Ann Arbor, Michigan; M.A. (Philosophy)
1982–1985	University of Michigan, Ann Arbor, Michigan; B.A. (Philosophy)
1980–1982	Kalamazoo College, Kalamazoo, Michigan

APPOINTMENTS

Scripps Health

2007-Present	Director of Research, Scripps Genomic Medicine

The Scripps Research Institute

2007-Present	Professor, Molecular and Experimental Medicine
2003-2007	Professor (adjunct), Department of Molecular and Experimental Medicine

University of California at San Diego

Faculty

2007-Present	Professor of Psychiatry and Biostatistics (adjunct)
2004-2007	Professor of Biostatistics, Department of Family & Preventive Medicine
2001-2007	Professor of Psychiatry (with tenure), Department of Psychiatry
2001	Visiting Professor, Department of Psychiatry

Academic

2006-Present	Deputy Director of Research, Stein Institute for Research on Aging (SIRA)
2005-Present	Director, Scientific Advisory Board, Stein Institute for Research on Aging
2004-Present	Co-Director, Center for Human Genetics and Genomics
2004-Present	Professor, Biomedical Sciences Graduate Program
2002-Present	Member, UCSD Cancer Center
2001-Present	Founding Professor, Bioinformatics Graduate Program
2006-2007	Director, Biomedical Informatics, UCSD Moores Cancer Center
2006-2007	Co-director, Cancer Genetics Program, UCSD Moores Cancer Center

Singapore

2007-Present	Member, NUS-GIS Center for Molecular Epidemiology, International Advisory Panel

2007-Present Member, The Singapore Consortium of Cohort Studies, International Advisory Panel

San Diego State University

2004-Present Adjunct Clinical Professor in the Graduate School of Public Health

Case Western Reserve University

1997–2001 Associate Professor, Department of Epidemiology & Biostatistics
1995–1997 Assistant Professor, Department of Epidemiology & Biostatistics
1995–1998 Assistant Professor (secondary faculty), Department of Genetics
1994–1995 Assistant Professor, Department of Genetics

Harvard University School of Public Health

1998–2001 Associate Professor (adjunct), Department of Biostatistics
1995–1997 Assistant Professor (adjunct), Department of Biostatistics

Jackson Laboratories

1994– 2002 Associate Research Scientist (adjunct), The Jackson Laboratory, Bar Harbor, Maine.

Cleveland Clinic Foundation

1996–2001 Assistant Scientist (adjunct staff), Department of Biostatistics and Epidemiology

The Genset Corporation

1999–2000 Vice President, Statistical Genomics, La Jolla, California (sponsored and coordinated leave of absence from CWRU)

CONSULTING POSITIONS

2006-Present DermTech International (San Diego, California): consultant
2006-Present Ligand Pharmaceuticals (San Diego, California): consultant
2001-2005 First Genetic Trust (Chicago, Illinois): founding scientific advisory board member
2001-2005 Celera Diagnostics (Oakland, California): consultant
1999-Present Genizon (prev. Galileo) Genomics (Montreal, Quebec): member, scientific advisory board
2001-2003 Merck (Newark, New Jersey): member, pharmacogenetics advisory board
2001-2002 Affymetrix (Santa Clara, California): consultant
2001 Xenon Genetics (Vancouver, Canada): consultant
1997–1999 GENSET (Paris, France): scientific advisor
1998 Roche Biosciences (Basel, Switzerland): occasional consultant
1998 Roche Molecular Systems (Alameda, CA): occasional consultant
1998 Roche Discovery (Welwyn, England): occasional consultant
1996–1999 Gemini Research (Cambridge, England): member, scientific advisory board
1996–1999 DNAX Institute of Molecular and Cellular Biology (Palo Alto, CA): occasional consultant
1996–1999 SmithKline Beecham (King of Prussia, PA): occasional consultant
1996–1998 Algene Biotechnologies (Montreal, Canada): member, scientific advisory board
1996–2000 Abbott Laboratories (Chicago, Illinois): member, pharmacogenetics advisory board
1994–1997 Millennium Pharmaceuticals, Inc. (Cambridge, MA): scientific advisor
1995–1996 Marion Merrell Dow (Cincinnati, Ohio); occasional consultant.
1993–1996 Warner-Lambert (Ann Arbor, Michigan): project consultant
1991–1992 Cleveland Clinic Foundation (Cleveland, Ohio): project consultant
1989–1990 District Health Department No. 3 (Charlevoix, Michigan): project consultant

PATENTS

Schork NJ, Essioux L, Cohen-Akenin A, Blumenfeld M, Cohen D. "Methods, Software and Apparati for Identifying Genomic Regions Harboring a Gene Associated with a Detectable Trait". (Issued: 6,29,182 B1)

Schork NJ, Fallin, D, Lisseguere S. "Methods of DNA Marker-based genetic analysis using estimated haplotype frequencies and uses thereof " (Patent Pending; 10/296,867).

Jacob HJ, Schork NJ, Tonellato P, Cowley, AW "Physiological Profiling" (Patent Pending; 09/960,234).

Lanchbury J, Hall M, Schork NJ. "Methodology for identifying genomic regions that affect a biological phenotype" (Application Number: PCTUS02/21,377; United Kingdom Patent Application Submitted).

SCIENTIFIC ACTIVITIES

Editorial Boards

2000-Present	Associate editor, *American Journal of Pharmacogenetics*
2002-Present	Associate editor (Statistical Genetics), *American Journal of Psychiatry*
2000-2003	Scientific advisor, *Encyclopedia of Human Genetics*
2002-Present	Scientific advisor, *Encyclopedia of Diagnostic Genomics and Proteomics*
2000-2003	Associate editor, *Physiological Genomics*
1999-2001	Associate editor, *American Journal of Human Genetics*
1998-2002	Section editor, *Current Hypertension Reports*
1995-1999	Associate editor, *Gene-COMBIS*

Study Sections and Grant Review

2007	National Academy of Sciences, "Nutrigenomics and Beyond," reviewer
2007	National Health Research Institute of Taiwan, External reviewer
2005	Institute for Mental Health Research (Pheonix, AZ) grant reviewer
2005	Tourette's Syndrome Association grant reviewer
2004	NIH special contract proposal reviewer, NIDA
2004	NIH, CEBRA reviewer, NIDA
2002	Health Research Board of Ireland, review panel member
2001	European Commission on Bioinformatics, review panel member
2000	MRC of Great Britain, ad hoc review panel member
1999	NIH, special study section member, Renal and Cardiovascular Disease
1999	NIH, special study section member, NIDDK
1998	NIH, special study section member, NIDDK
1998	NIH, special study section member, BSS
1998	NIH, Quantitative Genetics Study Section member, NIMH
1997	NIH, ad hoc review panel member, NHLBI
1997	MRC of Great Britain, ad hoc review panel member
1996	MRC of Great Britain, ad hoc review panel member
1996	MRC of Canada, site visit team member
1996	NIH, Centers of Excellence in Molecular Genetics, review panel member, NCHGR
1995	NIH, Family Heart Study, review panel member, NHLBI
1992	NIH, site visit team member, RCMI

ACTIVE GRANT SUPPORT

Active

07/01/05-06/30/06 National Institutes of Health (2 U01 HL064777-07), Family Blood Pressure Program, Nicholas Schork, P.I., 10% effort, annual direct costs: $96,519

06/01/05-5/31/2010 National Institutes of Health (2 P01 HL58120-06A1), Sympathetic Neuroeffector Junctions and Blood Pressure – B: Informatics and Statistical Genetics, Daniel O'Connor, M.D., P.I.; Nicholas Schork, P.I. of Core B, 5% effort, annual direct costs: $1,527,400

04/04/03-02/29/08 National Institutes of Health (5 R01 MH065571-02), The Genetics of Endophenotypes in Schizophrenia, David Braff, M.D., P.I.; Nicholas Schork, director of statistical genetics, 19% effort, annual direct costs: $493,194

09/26/03-08/31/07 National Institutes of Health (1 R01 HL074730-02), Hypertension Pharmacogenetics, Julie A. Johnson, P.I.; (subcontract from the University of Florida, Gainesville), Nicholas Schork, co-investigator, 4% effort, annual direct costs: $35,198

12/01/03-11/30/07 National Institutes of Health (2 R01 MH059567-05A2) Collaborative Genomic Study of Bipolar Disorder, John R. Kelsoe, P.I.; Nicholas Schork, co-investigator, 4% effort, total direct costs $250,000

04/01/04-01/31/09 National Institutes of Health (1 R01 MH068503-01A1) Genomic Studies of Bipolar Disorder and Chromosome 22, John R. Kelsoe, P.I.; Nicholas Schork, co-investigator, 8% effort, total direct costs $489,650

04/15/04-02/28/09 National Institutes of Health (1 R01 HL070137-01A1) Genetics of the Sodium-Lithium Countertransport, Abraham Aviv, P.I.; (subcontract from the University of Medicine and Dentistry New Jersey), Nicholas Schork, co-investigator, 10% effort, total direct costs $44,501

04/01/04-03/31/07 National Institutes of Health (1 R01 HL071123-01A2) Genetic Variants in Circadian Rhythm Sleep Disorders, Daniel Kripke, M.D., P.I.; Nicholas Schork, co-investigator, 4% effort, annual direct costs $226,081

09/30/04-06/30/09 National Institutes of Health (1 U19 AG023122-01A1) A Consortium to Study the Genetics of Longevity, Steven R. Cummings, M.D., P.I.; Nicholas Schork, co-investigator, 15% effort, annual direct costs $107,453

10/01/04-09/30/08 Donald W. Reynolds Foundation, Novel Statistical Approaches to Cardiovascular Genetics, Helen H. Hobbs, M.D.; P.I., Nicholas Schork, co-investigator, 1% effort, annual direct costs $25,000

07/15/05-06-30-09 National Institutes of Health, Human Telomere Genetics, Abraham Aviv, P.I.; (subcontract from the University of Medicine and Dentistry, New Jersey), Nicholas Schork, co-investigator, 1% effort, annual direct costs $39,970.

02/15/05-01/31/10 National Institutes of Health, An Affected SibPair Study of ADHD in Costa Rica. (1R01 NS48376-01A1) Carol A. Mathews, M.D., P.I.; Nicholas Schork co-investigator, 4% effort, annual direct costs $211,777

HONORS AND AWARDS

1997 Burroughs-Wellcome Researcher on Infectious Disease (with Jim Kazura)

1992 Student Travel Award Recipient, Spring Biometric Society (ENAR), Cincinnati, OH (Stephen Lagakos, Harvard University, organizer)

1991 Student Travel Award Recipient, The 23rd Symposium on the Interface of Computing Science and Statistics, Seattle, WA (Jon R. Kettenring, Bellcore, organizer).

TEACHING ACTIVITIES

Students

2007-Present	Hyun Min Kang, UCSD (Bioinformatics), doctoral thesis committee member
2007-Present	Vikas Bansal, UCSD(Bioinformatics), doctoral thesis committee member
2006-Present	Ali Torkamani, UCSD (Biomedical Sciences), doctoral thesis advisor
2006-Present	Alex Joyner, UCSD (Biomedical Sciences), doctoral thesis advisor
2006-Present	Noah Zaitlen, UCSD (Bioinformatics), doctoral thesis committee member
2006-Present	Jimmie Ye, UCSD (Bioinformatics), doctoral thesis committee member
2006-Present	Ali Bashir, UCSD (Bioinformatics), doctoral thesis committee member
2005-Present	Tobias Gerhard, University of Florida, doctoral thesis committee member
2004-Present	Sean O'Rourke, UCSD (Computer Science), doctoral thesis committee member
2004-Present	Matt Zapala, UCSD (MSTP), doctoral thesis advisor (MD/Ph.D. program)
2004-2006	Coleman Mosley, MD, UCSD, doctoral thesis advisor
2004-Present	Anne Valle, UCSD, doctoral thesis committee member
2004-2005	Guillermo Moratorio, UCSD, master's thesis committee member
2003-Present	Michele Day, UCSD, doctoral thesis committee member
2003-Present	Sherri Liang, UCSD, doctoral thesis committee member
2003-2006	James Rodgers, SDSU, master's thesis committee member
2004-Present	Ryan Fries, UCSD, doctoral thesis committee member
2003-2004	Ryan Fries, UCSD, master's thesis committee member
2003-Present	Rany Salem, UCSD, doctoral studies research advisor
2003-2006	Jennifer Wessel, UCSD, doctoral thesis advisor
2002-Present	Martin Jirout, MD, UCSD, doctoral thesis advisor
2001-2004	Lynn Evans, UCSD, doctoral thesis committee member
1999-2001	Nadia Tahri, University of Paris XI, doctoral thesis advisor
1998-2003	Fabrice Larribe, University of Montreal, doctoral thesis co-advisor
1998-2001	Li-Lian Kim, CWRU, doctoral thesis committee member
1998-2000	Danielle Fallin, CWRU, doctoral thesis advisor
1998	Markus Perola, University of Helsinki, doctoral committee member
1998	Cixuang Zheng, CWRU, doctoral thesis committee member
1997	Stacy Hirth, master's thesis advisor
1995-1998	Bonnie Thiel, CWRU, master's thesis advisor
1995-1997	Wade Najem, CWRU, doctoral thesis advisor
1995-1996	Eric Puffenberger, CWRU, doctoral thesis committee member
1994-1998	Tim Nui, Harvard University, doctoral thesis committee member
1994-1996	Audrey Lynn, CWRU, doctoral thesis committee member

Lab Rotations

2006	Stephanie Nissan, UCSD, doctoral student
2006-Present	Nzali Campbell, UCSD PREP Awardee mentor
2006	Tryggve Bakken, UCSD, doctoral student
2006-	Pamela Chayavichitsilp, UCSD medical school ISP rotation project committee
2006	Caroline McGruther, UCSD, M.D./Ph.D. student
2006	Nina Haste, UCSD, doctoral student, School of Pharmacy
2006	Oanh Nguyen, UCSD medical school ISP project co-advisor
2006	Ali Torkamani, UCSD doctoral student
2006	Alex Joyner, UCSD doctoral student
2005-2007	Jan McClure, UCSD/SDSU, student research rotation advisor
2005	Ohn Chou, UCSD doctoral student
2004-2005	Chileshe Mabula, UCSD SIRA undergraduate student investigator, advisor
2004-2005	Matt Bengard, UCSD, medical school ISP project co-advisor
2004-2005	Carie Nguyen, UCSD, medical school ISP project co-advisor
2004	Ashley Ebert, UCSB undergraduate, lab rotation advisor
2003-2004	Samuel Payne, UCSD, doctoral student, Biomedical Science

2002-2003	Ashwin Chandra, UCSD undergraduate student
2002-2005	Brad Kohlenberg, UCSD undergraduate research mentor
1996-1998	Joshua Pinkus, The Jackson Laboratory, undergraduate student intern co-mentor
1995	Michael Decker, CWRU, undergraduate research mentor

Post-Doctoral Mentor

2007-Present	Jennifer Wessel, Ph.D., post-doctoral mentor
2006-Present	Nathalie Malo, Ph.D., post-doctoral mentor
2002-2007	Tiffany Greenwood, Ph.D., project scientist mentor
2002-Present	Caroline Nievergelt, Ph.D., project scientist mentor
2001-2007	Brinda K. Rana, Ph.D., project scientist mentor
2002-2004	Miguel T. Robinson, Ph.D., project scientist mentor
1999-2000	Swapan Nath, Ph.D., post-doctoral mentor
1997-2000	Mark Seielstad, Ph.D., post-doctoral co-mentor
1997-1998	Zanquin Liu, Ph.D., post-doctoral co-mentor
1997	Vincent Carrier, Ph.D., post-doctoral mentor
1996	John Rogus, Ph.D., post-doctoral co-mentor
1995-1998	Pamela St. Jean, Ph.D., post-doctoral mentor

Career Development Mentor (K-Awardees , etc.)

2006-Present	Steven Glatt, Ph.D., UCSD (K-Award)
2005-Present	Eleazar Eskin, Ph.D., UCSD (K-Award)
2001-2006	Carol Mathews, M.D., UCSD, informal career mentor
2002-2005	Sally Bao, M.D., Ph.D., UCSD (K-Award)
2001-Present	Tom Barrett, Ph.D., UCSD (K-Award)
2000-2005	Jordon Smoller, M.D., Harvard University (K-Award)
2002-2004	Murray Stein, M.D., UCSD, formal mentor for Johns Hopkins MPH degree program
1997-1998	Tom Ferraro, Ph.D., University of Pennsylvania

Visiting Scientist/Mini-Sabbatical Mentor

2006	Alan B. Weder, M.D., University of Michigan
2003	Maud Artaud, M.S., Université de Poitiers
2003	Mélanie Langlois, M.S., Université de Poitiers
2003	Richard Prebish, M.S., University of Michigan, Ann Arbor
1997	Heidi Stirnadel, Ph.D., Swiss Tropical Institute
1997	Niall Anderson, Ph.D., University of Glasgow
1996	Robert Zee, Ph.D., Harvard University
1996	David Allison, Ph.D., St. Luke's Hospital/Columbia University

International Teaching Lectures

1996 Lectures on the genetic analysis of complex traits; University of Oulu Course Short Course on "Molecular Genetics and Diseases," University of Oulu, Finland (2 x 1.5 hour lectures)

1996 Lectures on "Linkage disequilibrium mapping of human quantitative traits;" University of Helsinki Medical School, University of Helsinki, Finland (1 2 hour lecture, workshop participation).

National Teaching Lectures

1996 Lecture on "Linkage Mapping of Traits Exhibiting Marked Age-Trends," Workshop on Statistical Genetics, Institute of Mathematics and its Applications, University of Minnesota, MN (1 hour lecture).

1996 Lecture on "Sibpairs vs. Pedigrees: What are the Advantages?" American Diabetes Association Workshop on the Genetics of Diabetes Susceptibility, Aspen, Colorado (2 x 1 hour lectures)

1996 Lecture on the "Potential Contribution of Molecular Genetics to Speech and Language Research," American Speech and Hearing Association Workshop on the Genetics of Speech and Language Disorders, Seattle, Washington (1 hour lecture)

1998 Center for Environmental Genetics Workshop organizer and lecturer: Marker-Based Human Genetic Epidemiologic Analysis (University of Cincinnati) 1 8-hour workshop.

1998 Abbott Laboratories one-day workshop/lecture series on the "Modern Marker-Based Genetic Analysis," 6 1-hour lectures. Abbott Park, Illinois.

1998 Roche/Jackson Laboratories Workshop on Functional Genomics and Gene Expression

2000 "Modern Genetic Epidemiology" Epidemiology Research Institute Short Course in Epidemiologic Methods, Boston, MA July 24-28,2000

University of California, San Diego

2002 Lectures: BIOM 243 Human Genetics, four lectures on linkage and association mapping; Tony Wynshaw-Boris, organizer; spring quarter

2002 Lecture: Chem 92 Undergraduate Pharmacology Seminar, lecture on pharmacogenetics; Bob Tukey, organizer; spring quarter

2002 Lecture: BILD 94 Professional Issues in Bioinformatics, lecture on statistical genetics; Suresh Subramani, organizer; spring quarter

2002 Lecture: SoM 218 Epidemiology/Biostatistics, lecture on genetic epidemiology

2002 Lecturer: Epidemiology II (2 lectures on genetic epidemiology); UCSD CREST program in graduate epidemiology, October 30 and November 6

2002 Mentor, undergraduate research presentations at the annual undergraduate research symposium.

2003 Lecturer: SoM Pharm/Biom 235/Med 230 Pharmacogenomics, two 1-1/2 hour lectures on statistical genetics; Daniel O'Connor, organizer; April 1 and April 10

2003 Lecture: Chem 92 Undergraduate Pharmacology Seminar, lecture on pharmacogenetics; Bob Tukey, organizer; April 25

2003 Lecture: BICD 180 Genetics of Model Organisms, lecture on Homo sapiens: human and medical genetics; Randall Johnson, instructor; May 5

2003 Mentor, undergraduate research presentations at the annual undergraduate research symposium.

2003 Lecture: Math 283 Bioinformatics, lecture on statistical issues in genetic mopping; John O'Quigley, instructor; June 2

2003 Lectures: CREST Program, Epidemiology II (two lectures on genetic epidemiology); November 19 and December 10

2004 Organizer and lecturer: Math 283 Statistical Methods in Bioinformatics, spring quarter

2004 Lecture: Chem 92 Undergraduate Pharmacology Seminar, lecture on pharamcogenetics, Bob Tukey, organizer; April 24

2005 Organizer and lecturer, SPPS 216: "Human Genetics and Genomics," (Palmer Taylor, overall director), January 27

2005 Lecturer, FPM 237: "Microaarya applications in the health sciences," (Sonia Jain, Mike Cleary, Gary Hardiman, organizers), March 3.

2005 Lecture: Chem 92 Undergraduate Pharmacology Seminar, lecture on pharamcogenetics, Bob Tukey, organizer; April 27

2005 Organizer and lecturer, SIRA worskshop on Genetics and Imaging. "Modern Human Genetics and Genomics," (Lisa Eyler, overall organizer), June 8.

2005 Lecture: (2): BIOM 200, "Genetic Dissection of Complex Traits", "Evolutionary Genetics/Genomics" (Bruce Hamilton, organizer), September 26 and October 4.

2005 Lecture: SOM 218 "Statistical Genetics: Concepts in Genetic Mapping", (Reena Deutsch, organizer), November 19.

2005 Fall term independent studies course (15 meetings) on the Genetics of Infectious Disease for Lorne Walker, MSTP student. Fall Term.

2005 Lecture: SPPS 216 "Statistical Genetics and Pharmacogenetics", (Palmer Taylor, overall course director), January 31.

2005 Moderator, BGGN 219, Classic Papers in Human Genetics (Tony Wynshaw-Boris, organizer), March 8.

2006 Lecture: SPPS 216 "Introduction to Statistical Genetics and Pharmacogenetics,", (Palmer Taylor, overall course director), January 28.

2006 Lecture: FPM 243, "Clinical Genomics" (Lisa Madlensky, organizer), February 23.

2006 Lecture: BIOM 252 "Linkage Disequilibrium" (Tony Wynshaw-Boris, organizer), February 27.

2006 Lecture: FPM 237, "Applications of Microarrays to the Health Sciences," (Sonia Jain, organizer), March 9.

2006 Lecture: GeroPsychiatry Fellowship Lecture Series, "Modern Genetic Epidemiology," (Lori Montross, organizer), April 5, 2006.

2006 Chemistry 92, "Pharmacogenetics and Pharmacogenetic Inquiry" (Robert Tukey, organizer), April 21.

2006 Lecture: FPM 258, "Large-scale genetic association analysis" (Kristen Deveraux, organizer), May 23.

2006 Organizer, Biomedical Science Student Orientation, University of California, San Diego, September, 2006.

2006 Lecture: (2): BIOM 200, "Genetic Dissection of Complex Traits", "Evolutionary Genetics/Genomics" (Steve Dowdy and Alexandra Newton, organizers), September 25 and October 5.

2007 Lecture: (2), BGGN 219 "Classic Papers in Human Genetics: Human Population Genetics", January 8 and January 10.

2007 Lecture: Bioinformatics Graduate Program Faculty Lecture: "Statistical Genetics," January 15.

2007 Lecture: SPPS 216 "Introduction to Statistical Genetics and Pharmacogenetics,", (Palmer Taylor, overall course director), February 6.

2007 Lecture, Graduate Fellowship in Biological Psychiatry and Neuroscience Seminar Series on "Whole Genome Association Studies," (Eric Turner, fellowship coordinator), March 1.

2007 Lecture: FPM 237, "Applications of Microarrays to the Health Sciences," (Sonia Jain, organizer), March 6.

University of Alabama, Birmingham

2003 Lecture series: Department of Biostatistics, School of Public Health, five one-hour seminars in the Section on Statistical Genetics, August 18-22

2003 Visiting professor, Department of Biostatistics, School of Public Health

The Jackson Laboratory

1995 Lectures on complex trait analysis and the origins of complex traits, and computer laboratory organizer for gene mapping; The Jackson Laboratory Short Course on "Experimental Genetics of the Laboratory Mouse," Bar Harbor, ME (2 x 2 hour lectures; 3 x 3 hour workshops)

1996 Lectures on complex trait analysis and the origins of complex traits, and computer laboratory organizer for gene mapping; The Jackson Laboratory Short Course on "Experimental Genetics of the Laboratory Mouse," Bar Harbor, ME (2 x 2 hour lectures; 3 x 3 hour workshops)

1996 Lectures on complex trait analysis and the origins of complex traits, and computer laboratory organizer for gene mapping; The 37th Annual Joint Jackson Laboratory/Johns Hopkins University Short Course on "Human and Experimental Genetics," Bar Harbor, ME (2 x 2 hour lectures; 3 x 3 hour workshops)

1996 Lectures on complex trait analysis and the origins of complex traits, and computer laboratory organizer for gene mapping; The Joint Jackson Laboratory/NHLBI/ American Type Culture Short Course on the Genetics of Heart, Lung, and Blood Diseases, Bar Harbor, ME (2 x 2 hour lectures; 1 2 hour workshops)

1997 Lectures on complex trait analysis and the origins of complex traits, and computer laboratory organizer for gene mapping; The Jackson Laboratory Short Course on "Experimental Genetics of the Laboratory Mouse," Bar Harbor, ME (1 x 3 hour lectures; 3 x 1.5 hour workshops)

1997 Lectures on complex trait analysis and the origins of complex traits, and computer laboratory organizer for gene mapping; The Joint Jackson Laboratory/NHLBI/ American Type Culture Short Course on the Genetics of Heart, Lung, and Blood Diseases, Bar Harbor, ME (2 x 2 hour lectures; 1 2-hour workshops)

1998 Lectures on complex trait analysis and the origins of complex traits, The Jackson Laboratory Short Course on "Experimental Genetics of the Laboratory Mouse," Bar Harbor, ME (1 2-hour lecture)

1999 Lectures on complex trait analysis and the origins of complex traits, and computer laboratory organizer for gene mapping; The Joint Jackson Laboratory/NHLBI/ American Type Culture Short Course on the Genetics of Heart, Lung, and Blood Diseases, Bar Harbor, ME (1 2-hour lecture)

1999 Lectures on complex trait analysis and the origins of complex traits, The Jackson Laboratory Short Course on "Experimental Genetics of the Laboratory Mouse," Bar Harbor, ME (1 2-hour lecture)

2000 Lectures on complex trait analysis and the origins of complete traits, and computer laboratory organizer for gene mapping; The Joint Jackson Laboratory/NHLBI/American Type Culture Short Course on the Genetics of the Heart, Lung, and Blood Diseases, Bar Harbor, ME (1 2-hour lecture)

2000 Co-organizer and lecturer, "Mathematical Approaches to the Analysis of Complex Traits and Diseases," The Jackson Laboratory, ME (2 1-hour lectures)

2002 Short course on Mathematical Approaches to the Analysis of Complex Phenotypes, "Issues in Contemporary Human Genetics Analysis: Haplotype Maps, Bioinformatics Tolls and Novel Statistical Methods," Bar Harbor, ME (1 2-hour lecture)

2003 Short course on Mathematical Approaches to the Analysis of Complex Phenotypes, "Issues in

contemporary human genetic analysis: haplotype maps, bioinformatics tools, and novel statistical methods," Bar Harbor, ME (1 2-hour lecture)

Harvard University

1996 EHS 287: Introduction to Genetic Epidemiology, course developer (3 x 2 hour lecture; 50 students)

1999 Short Course: Variance Components Models in Modern Genetic Epidemiology (5 x 2 hour lectures; 100 students), February, 1999.

Case Western Reserve University

1994 Medical Student Preclinical Survey Course, Department of Medicine (2 hour lecture)

1994–1997 Gene 504: Survey Course, Department of Genetics (3 x 2 hour lectures)

1995 EPBI 451: Introduction to Genetic Epidemiology (2 hour lecture)

1995-1999 EPBI 494: Infectious Disease, Department of Epidemiology and Biostatistics (2 hour lecture)

1996 EPBI 701: Population Genetics in Genetic Epidemiology, Department of Epidemiology and Biostatistics, Course Developer and Lecturer

1998 EPBI 454: Evolution and Population Genetics in Genetic Epidemiology. Course organizer and teacher.

1999-2000 EPBI 454: Evolution and Population Genetics in Genetic Epidemiology. Course organizer and leader.

EXTRAMURAL INVITED PRESENTATIONS

Published Lectures

2007.1 "Evolutionary Genetic Epidemiology," Henry Stewart Talks (www.hstalks.com); Series on Evolutionary Medicine (Randolph Nesse, lecture series organizer).

Past Speaking Engagements

1993.1 "Detecting Genes That Influence Traits Exhibiting Marked Postnatal Developmental Trends," invited seminar, Department of Genetics, Harvard University, Massachusetts General Hospital, November, 1993.

1993.2 "Detecting Genes That Influence Traits Exhibiting Marked Postnatal Developmental Trends," invited seminar, University of Florida, Center for Mammalian Genetics, December, 1993.

1994.1 "Extended Multipoint Identity-by-Descent Mapping of Complex Quantitative Phenotypes," invited seminar, Harvard University, Department of Biostatistics, January, 1994.

1994.2 "Issues in the Analysis of Multifactorial Traits," invited seminar, Center d'Etude du Polymorphisme Humain, Paris, France, February, 1994.

1994.3 "Linkage Analysis of Complex Traits," invited seminar, University of Washington, Department of Biostatistics, February, 1994.

1994.4 "Linkage Mapping of Traits Exhibiting Marked Age-Trends: Applications Using Twins," Workshop on Methodology for Genetic Studies of Twins and Families, University of Colorado, February, 1994.

1994.5 "Linkage Analysis of Complex Traits," invited seminar, National Center for Human Genome Research, NIH, Bethesda, MD, March 1994.

1994.6 "Linkage Mapping of Traits Exhibiting Marked Age-Trends," and "A Biometrical Genome Scan Search Reveals the Multilocus Basis of Blood Pressure Regulation," invited seminars, Medical College of Wisconsin, Department of Physiology, Madison, WI, March, 1994.

1994.7 "Linkage Analysis of Complex Traits," invited seminar, Marquette University, Department of Mathematics and Statistics, March, 1994.

1994.8 "A Biometrical Genome Scan Search Reveals the Multilocus Basis of Blood Pressure Regulation," invited seminar, The Jackson Laboratories, June, 1994.

1994.9 "Issues in the Analysis of Complex Traits," invited speaker, Alder Foundation Symposium: Alzheimer's Disease: A cutting edge discussion of genetic epidemiology and the role of APO-E, Duke University, NC, August 1994.

1994.10 "Linkage Analysis of Complex Genetic Traits in Mice," invited speaker, Symposium on Mouse Molecular Neurogenetics, The Jackson Laboratories, Bar Harbor, Maine, August, 1994.

1994.11 "Models and Methods for Genetic Analysis of Complex Traits," invited seminar, Harvard University, Department of Biostatistics, December, 1994.

1995.1 "Methods in the Dissection of Complex Genetic Traits," invited seminar, Sergievsky Center, Columbia University, NY, January, 1995.

1995.2 "The Y Chromosome and Blood Pressure Variation in Inbred Rat Strains," invited seminar, The University of Michigan, Department of Medicine, Ann Arbor, Michigan, March, 1995.

1995.3 "A Biometrical Genome Scan Search Reveals the Multilocus Basis of Blood Pressure Regulation," invited seminar, National Institute of Environmental Health Sciences, North Carolina, May, 1995.

1993.4 "Extensions to QTL Mapping," invited speaker, Gordon Research Conference on the Genetics of Disease, Salve Regina College, Rhode Island, August, 1995.

1995.5 "On the Use of Multiple Phenotypes in Mapping Complex Trait Genes," invited speaker, NIH Workshop on "Phenotypic Issues in Studies of Asthma Genetics," August, 1995.

1995.6 "Mapping Multigenic Traits," invited seminar, Harvard University, Department of Biostatistics, Boston, MA, October, 1995.

1996.1 "On the Use of Multiple Phenotypes in Mapping Complex Trait Genes," invited speaker, Banbury Center, Cold Spring Harbor Laboratory, conference on "Looking to the Next Generation of Genetic Mapping," New York, November, 1996.

1996.2 "Novel Approaches to the Analysis of Complex Traits," invited seminar, The University of Michigan, Department of Human Genetics, Ann Arbor, Michigan, May, 1996.

1996.3 "Novel Approaches to the Analysis of Complex Traits," invited seminar, Ohio State University Symposium on Biostatistical Methodology, Columbus, Ohio, May, 1996.

1996.4 "Linkage Mapping of Multigenic Diseases," invited speaker, Fu Wai Cardiovascular Hospital, Chinese Academy of Medical Sciences, Beijing, China, May, 1996.

1996.5 "Extensions of QTL Mapping," invited speaker, International Society of Hypertension Satellite Symposium on Genetics, Glasgow, Scotland, June, 1996.

1996.6 "Issues in Assessing Statistical Significance in QTL Mapping Studies," invited speaker, NIAAA workshop on QTL mapping, Bethesda, MD, August, 1996.

1996.7 "Promising Study Designs" and "Overall Research Strategies for the Genetics of Aging," invited speaker, NIA Panel on the Epidemiology and Genetics of Longevity, Bethesda, MD, August, 1996.

1996.8 "The Genetic Dissection of Complex Traits," invited speaker, American Hypertension Association Annual Meeting, Chicago, IL, August, 1996.

1996.9 "Novel Methods for Mapping Complex Traits," invited seminar, University of Pittsburgh, Department of Human Genetics, Pittsburgh, PA, November, 1996.

1996.10 "Novel Methods for Mapping Complex Traits," invited seminar, University of Helsinki, Department of Medical Genetics, Helsinki, Finland, December, 1996.

1997.1 "The Genetics of Complex Diseases: Issues and Strategies," invited keynote speaker, American Association for Asthma Research, Boca Raton, Florida, January, 1997.

1997.2 "Novel Methods for Mapping Complex Genetic Traits," invited speaker, Gordon Research Conference on Quantitative Genetics and Biotechnology, Ventura, CA, February, 1997.

1997.3 "Issues in Assessing Associations and Linkages with Addictive Behaviors," invited speaker, UCLA Conference on Molecular Genetics of Alcoholism and Other Addictive/Compulsive Disorders, Los Angeles, CA, February, 1997.

1997.4 "Multigenic Diseases," invited speaker, Human Genome Meeting Sponsored by the Human Genome Organization (HUGO), Toronto, Canada, March, 1997.

1997.5 "Allele Sharing Methods for the Analysis of Twin Data," invited speaker, NordicTwin Registry Workshop, Helsinki, Finland, March, 1997.

1997.6 "Novel Methods for Mapping Complex Genetic Traits," invited speaker, Max Delbruck Center for Molecular Medicine, Berlin, Germany, March, 1997.

1997.7 "Novel Methods for Mapping Complex Genetic Traits," invited speaker, distinguished lecture series, University of Medicine and Dentistry of New Jersey, Newark, New Jersey, April 8, 1997.

1997.8 "Genetic Mapping Strategies for Complex Traits Based on the Short-term Evolution of Chromosomes," invited speaker, 9th International Congress on Genes, Gene Families, and Isozymes, San Antonio, TX, April, 1997.

1997.9 "Multivariate Gene Mapping Methods," invited speaker, New York Obesity Research Meeting, New York, July, 1997.

1997.10 "Novel Methods for Mapping Complex Genetic Traits," invited speaker, American Statistical Association Annual Meeting, Anaheim, CA, August, 1997.

1997.11 "Novel Methods in the Meiotic Mapping of Complex Traits," invited speaker, Sequana Therapeutics, La Jolla, CA, August, 1997.

1997.12 "Novel Methods for Mapping Complex Genetic Traits," invited speaker, Harvard University, Department of Medicine, Boston, MA, September, 1997.

1997.13 "New Directions in the Analysis of Complex Genetic Traits," invited speaker, Harvard University School of Public Health, Boston, MA, September, 1997.

1997.14 "Issues and Strategies in the Assessment of Genetic Function and Complexity," invited speaker, The Jackson Laboratory, Bar Harbor, Maine, October 6, 1997.

1997.15 "Issues in the Analysis of Gene Expression Data," organizer, Roche/Jackson Laboratories workshop on Functional Genomics, Roche Biosciences, Palo Alto, CA, November 6, 1997.

1997.16 "Novel Approaches to Investigating Complex Traits in Humans: A Two Village Study in China ," invited speaker, University of Cincinnati, Department of Medicine, November 13, 1997.

1997.17 "Statistical Methods for Assessing the Genetic Basis of Complex Traits ," invited speaker, Department of Biostatistics, University of Cincinnati, November 13, 1997.

1997.18 "Novel Approaches to Investigating Complex Traits in Humans: Population Genetics and Large-Scale Epidemiology ," invited speaker, StrataGene Corporation, La Jolla, CA, November 20, 1997.

1998.1 "Issues in Marker-Based Analysis of Complex Genetic Traits," invited speaker, Marshfield Clinic, Marshfield, Wisconsin, February 14, 1998.

1998.2 "Weighing the Odds in Genetic Analysis: Approaches," invited speaker, Gordon Research Conference, Ventura, CA, February 17, 1998.

1998.3 "Issues in Marker-Based Analysis of Complex Genetic Traits," invited speaker, Algene Biotechnologies, Montreal, Canada, February 26, 1998.

1998.4 "Issues in Marker-based Genetic Analysis of Disease," invited speaker, Smith-Kline Beecham, London, England, March 25, 1998.

1998.5 "Use of Twins in QTL Mapping," invited speaker, First International Workshop on Genetic Epidemiology of Complex Traits using Twins and Sibpairs, Cambridge, England, March 26, 1998.

1998.6 "Analysis of Target Gene Variations in Complex Disease," invited speaker, Cold Spring Harbor Laboratory meeting on the Molecular Basis of Asthma, March 30-April-2, 1998.

1998.7 "Issues in the Marker-based Analysis of Complex Traits," invited speaker, Lunenfeld Research Center, University of Toronto, Canada, April 7, 1998.

1998.8 "Marker-based Analysis of Complex Traits," invited speaker, Department of Human Genetics, UCLA, April 15, 1998.

1998.9 "Issues in the Marker-based Analysis of Complex Traits,", invited speaker, 50th anniversary of the National Heart, Lung, and Blood Institute, San Francisco, CA, April 19, 1998.

1998.10 "Issues in the Marker-based Analysis of Complex Traits,", invited speaker, O'Brien Kidney Center, University of Iowa, May 7, 1998.

1998.11 "The Future of Polymorphism Analysis," invited speaker and organizer, Roche/Jackson Laboratories Workshop on Polymorphisms and Drug Discovery, Roche Discovery, Welwyn, England, May 19, 1998.

1998.12 "Disease models and functional genomics," invited speaker, Roche/Jackson Laboratories research de-briefing, The Jackson Laboratory, May 26, 1998.

1998.13 "Statistical Methods Used in Genome Scans," and "Issues in Association Studies," National Institute of Diabetes and Digestive and Kidney Diseases Conference on "Strategies for Identification of Nephropathy Susceptibility Genes," Bethesda, MD, June 28-29, 1998.

1998.14 "Approaches to the Analysis of Complex Genetic Traits," invited speaker, Department of Biostatistics, University of Southern California, August 7, 1998.

1998.15 "Genetic Analysis and SNPs," co-invited speaker, Swedish conference on SNPs and Genetic Analysis, Stockholm, Sweden, August 30, 1998.

1998.16 "Novel Approaches to the Genetic Analysis of Complex Traits," invited speaker, Department of Epidemiology and Biostatistics seminar series, Case Western Reserve University, Cleveland, Ohio, September 23, 1998.

1998.17 "Issues in the Genetic Analysis of Complex Traits," invited speaker, MetroHealth Medical Center, Cleveland, Ohio, September 29, 1998.

1998.18 "The Genetics of Hypertension," invited speaker, Division of Hypertension, Department of Medicine, University of Michigan, October 5, 1998.

1998.19 "Disease Models and Functional Genomics" The Jackson Laboratory Symposium on the Mouse and Drug Discovery, Asticou, ME, October 20-21, 1998.

1998.20 "Statistical Issues in Gene Mapping," invited speaker, Roche/Jackson Laboratories workshop on Bioinformatics. Basel, Switzerland, November 1-2, 1998.

1998.21 "Whole Genome Association Studies," co-invited speaker, Banbury Center meeting on large-scale discovery and genetic applications of SNPs, Cold Spring Harbor, NY, November 10-13, 1998.

1999.1 "Population Genetic Analysis of Social and Geographical Isolates", invited speaker, VIIth Annual CEPH Conference on Human Genetics, May 27-28, 1999

1999.2 "New Approaches to Therapeutic Target Discovery – Overview Lecture", invited speaker, Fifth International Symposium on the Immunotherapy of the Rheumatic Diseases, Cyprus, May 26-30, 1999

1999.3 "Genetic Analysis of Single Nucleotide Polymorphisms," invited lecture, Roche Molecular Systems, Alameda, CA, July 15, 1999.

1999.4 "The Future of Genetic Analysis," invited speaker, Hoffman-La Roche Symposium on the future of genetics research, Chantilly, WV, September 19, 1999.

1999.5 "Linkage Disequilibrium Strength as a Function of Social and Demographic Factors," slide presentation, American Society of Human Genetics Annual Meeting, San Francisco, CA, October 22, 1999.

1999.6 "The Future of Genetic Case-Control Studies," invited lecture, Roche Molecular Systems Symposium on the future of genetic analysis, Alameda, CA, October 25, 1999.

1999.7 "Quantitative Trait Loci," invited speaker, Association for Molecular Pathology annual meeting, St. Louis, MO, November 5, 1999.

1999.8 "The Future of Genetic Case-Control Studies," invited speaker, Bristol-Myers Squibb, Philadelphia, PA, December 1, 1999.

1999.9 "Analysis with Genetic Markers," invited speaker, Association of Physiological Research, Paris, France, December 9-11, 1999.

2000.1 "Modern Genetic Case/Control Studies", invited speaker, University of California, San Diego, CA, February 2, 2000

2000.2 "Optimal Design of SNP Studies," invited speaker, NHGRI and SNP Consortium meeting, Bethesda, MD, March 7-8, 2000

2000.3 "Genetic Association Studies," invited speaker, ASPET meeting, Boston, MA, June 4, 2000.

2000.4 "Genetic Case/Control Studies," invited speaker, Pharmacogenetics 2000, San Diego, CA, June 14, 2000.

2000.5 "Whole Genome Association Studies," invited speaker, 3rd Annual Conference on Single Nucleotide Polymorphisms and the Analysis of Complex Disease, Taos, NM, September 8-11, 2000.

2000.6 "Modern Genetic Analysis," invited speaker, International Society of Nephrology Research meeting, Toronto, Canada, October 7, 2000.

2000.7 "The Future of Genetic Case/Control Studies," invited speaker, Roswell Park Cancer Institute, Roswell Park, NY, October, 30, 2000.

2000.8 "Whole Genome Association Study of Calcium Entry into the Cell," slide presentation, American Society of Human Genetics Annual Meeting, October 3-9, 2000

2000.9 "Linkage Disequilibrium and Whole Genome Association Studies: Theory and Applications," invited speaker, The Curagen Corporation, New Haven, CT, November 7, 2000

2000.10 "Linkage Disequilibrium and Whole Genome Association Studies: Theory and Applications," invited speaker, University of California, San Diego, Department of Mathematics, November 8, 2000

2000.11 "Linkage Disequilibrium and Whole Genome Association Studies: Theory and Applications," invited speaker, University of California, San Diego, Department of Psychiatry, November 15, 2000

2000.12 "Linkage Disequilibrium and Whole Genome Association Studies: Theory and Applications," invited speaker, Department of Statistics, Case Western Reserve University, 17, 2000

2000.13 "Genetic Epidemiology of SNPs," invited presentation, Atherothrombosis, Lisbon, Spain, December 11, 2000.

2000.14 "Linkage Disequilibrium and Whole Genome Association Studies: Theory and Applications," invited speaker, Department of Biostatistics, University of Michigan, Ann Arbor, Michigan, December 19, 2000.

2001.1 "Statistical Analysis Tools for Modern SNP-Based Genetic Analysis." invited speaker, IBC USA 3rd Annual Pharmacogenetics, SNPs, and Genetic Patenting Meeting. San Diego, CA, February 12-14,2001.

2001.2 "The Future of Association Studies of Complex Traits," invited speaker, Medical College of Wisconsin, Department of Medicine, Milwaukee, Wisconsin, February 19, 2001.

2001.3 "Whole-genome association studies of complex traits," invited speaker, . Program in Human Genetics, University of California, San Francisco, March 13, 2001.

2001.4 "Novel analytical approaches in analyzing the complex trait, asthma," David G Marsh Invited Lectureship, The American Academy of Allergy, Asthma, and Immunology, 57th annual meeting, New Orleans, LA, March 16-21, 2001.

2001.5 "Linkage Disequilibrium Analysis," invited speaker, First Genetic Trust, New York, NY, April 2, 2001.

2001.6 "The Future of Association Studies of Complex Traits" and "A Comparison of Mean Effects and Variance Components Models for Group Comparisons," invited speaker, University of California, San Diego, Departments of Psychiatry and Mathematics, April 11-13, 2001.

2001.7 "Applied Population Genetics," invited speaker, Short Course in Statistical Genetics, University of Alabama, Birmingham, May 15-18, 2001.

2001.8 "Applied Population Genetics: Concepts, Methods, and Relevance to Disease Gene Mapping in Isolates," invited speaker, American Society of Human Genetics symposium on Genetic Studies in Isolated Populations, San Diego, CA, October 15, 2001.

2001.9 "Modern Genetic Analysis Tools," invited speaker, IBC Meeting on Functional Genomics, Seattle, WA, October 16-17, 2001.

2002.1 "Power calculations for genetic associations studies using empirically-derived parameter distributions," invited speaker, Human Genetics Journal Club, University of California, San Diego, January 22, 2002.

2002.2 "Power calculations for genetic associations studies using empirically-derived parameter distributions," invited speaker, Department of Biostatistics, Stanford University, Palo Alto, CA, January 31, 2002.

2002.3 "Power calculations for genetic associations studies using empirically-derived parameter distributions," invited speaker, Celera Diagnostics, Alameda, CA, February 1, 2002.

2002.4 "Improving Case-Control Studies: Haplotypes and Homogeneity Assessment," invited speaker, Second Longevity Consortium Meeting, Napa, CA, February 4, 2002.

2002.5 "SNP-Based Genetic Analysis Tools," invited speaker, Cambridge Healthtech Institute's Tri-Genome Conference 2002, Santa Clara, CA, February 25-27, 2002.

2002.6 "SNP-Based Genetic Analysis Tools," invited speaker, Roche Molecular Systems, Alameda, CA, February 27, 2002.

2002.7 "Future Directions in Statistical Genetics," invited keynote speaker and "Haplotype Analysis," invited speaker, Third Annual Conference on the Genetic Analysis of Complex Traits, Cambridge, United Kingdom, April 1-3, 2002.

2002.8 "Novel DNA-marker Based Analyses: Parametric IBD Linkage Analysis and Phenotype-Genotype Distance Analysis," invited speaker, Family Blood Pressure Program, Baltimore, MD, July 14-16, 2002

2002.9 “Identifying Drug Response Genes,” invited speaker, New York Academy of Medicine Pharmacogenetics Symposium, New York, NY, October 3-4, 2002.

2002.10 “Bioinformatics: Applied Population Genetics,” invited speaker, Annual Meeting of the American College of Clinical Pharmacy, Albuquerque, NM, October 21-23, 2002.

2002.11 “Large-scale Genetic Association Studies,” invited speaker, Celera Diagnostics, Oakland, CA, November 1, 2002.

2002.12 “Large-scale Genetic Association Studies,” invited speaker, University of Florida, School of Pharmacy, Gainesville, FL, November 11-13, 2002.

2002.13 “Haplotype Analysis with applications to Alzheimer’s disease,” invited speaker, National Academy of Sciences' Fourteenth Annual Beckman Frontiers of Science Symposium, Irvine, CA, November 14-16, 2002.

2002.14 “Genetic Epidemiology,” invited speaker, Department of Biostatistics, University of California, San Diego, La Jolla, CA, December 11, 2002.

2002.15 “Statistical Issues in Cancer Genetics Research,” invited speaker, National Cancer Institute, Cancer Susceptibility Genes in Human and Model Organisms, University of California at Irvine, Newport Beach, CA, December 11-13, 2002.

2003.1 “The Haplotype Map Initiative and Whole Genome Association Studies,” invited speaker, Department of Biostatistics, University of Southern California, Los Angeles, CA, January 30, 2003.

2003.2 “The Haplotype Map Initiative and Whole Genome Association Studies,” invited speaker, Contemporary Issues in Human Genetics Seminar Series, University of California, San Diego, La Jolla, CA, February 20, 2003.

2003.3 “The Haplotype Map Initiative and Association Studies,” invited speaker, NIH Pharmacogenetics Network Annual Meeting, Memphis, TN, March 4, 2003.

2003.4 “Complex trait genetics: Insights for hypertension and renal disease,” invited speaker, Renal Conference, UCSD School of Medicine continuing medical education Category 1 activity, Veterans Affairs Medical Center, La Jolla, CA, March 18, 2003.

2003.5 “Race and Modern Population and Epidemiological Genetics,” invited speaker, American Society for Clinical Pharmacy and Therapeutics, Washington, DC, April 4, 2003.

2003.6 “The Haplotype Map Initiative and Whole Genome Association Studies,” invited speaker, Department of Medicine, University of Medicine and Dentistry of New Jersey, Newark, NJ, April 7, 2003.

2003.7 “Methodological Issues in the Genetic Analysis of Complex Traits,” invited speaker, McKusick-Nathans Center for Human Genetics, Johns Hopkins University, Baltimore, MD, April 8, 2003

2003.8 “Systems Biology and Genomics,” invited speaker, GeneGo, Inc. symposium on systems reconstruction, San Diego Supercomputer Center, University of California, San Diego, La Jolla, CA, April 30, 2003

2003.9 “Methods for Assessing Cryptic Population Substructure,” invited speaker, The Donald W. Reynolds Symposium: Understanding the Complexity of Heart Disease, Stanford University, Stanford, CA, May 19, 2003.

2003.10 "Issues in the use of the haplotype map resource," invited speaker, Scripps Research Institute, La Jolla, CA, June 17, 2003.

2003.11 “Genetics and Race,” invited speaker, Collaboration in the Health and Social Sciences: A Workshop, University of California, San Diego, La Jolla, CA, June 21, 2003.

2003.12 "Issues in the Genetic Epidemiologic Analysis of Complex Traits," invited speaker, University of Texas Southwestern Medical Center, Dallas, TX, July 17, 2003.

2003.13 "Issues in Large-Scale Genetic Epidemiology Studies," invited speaker, The Donald W. Reynolds Cardiovascular Clinical Research Center Training Seminar, Stanford School of Medicine, Stanford, CA July 24, 2003.

2003.14 "Analyses of population substructure," invited speaker, Roche Palo Alto, University of California, San Francisco, October 24, 2003.

2003.15 "Using Population Data to Find Genes for Complex Diseases," invited speaker, American Society of Nephrology Annual Meeting, postgraduate education course, "Clinical Science Course – Genetics Issues in Kidney Disease: Platforms for Investigation." San Diego, CA, November 13, 2003.

2004.1 "Novel Multivariate Analysis Methods for Genomic Analysis," invited speaker, Mathematical Sciences Research Institute, workshop, "Genetics of Complex Disease." University of California, Berkeley, February 9, 2004.

2004.2 "Issues in Statistical Genetics and Statistical Genomics," invited speaker, San Diego Supercomputer Center, University of California, San Diego, La Jolla, California, March 22, 2004.

2004.3 "Issues and Methodology in Statistical Genomics," invited speaker, San Diego Supercomputer Center, University of California, San Diego, La Jolla, California, May 10, 2004.

2004.4 "Integrated Approaches to Genome-wide Association Studies," invited speaker, American Diabetes Association 64th Scientific Sessions, Orlando, Florida, June 6, 2004

2004.5 "Modern Human Genetic Association Studies: Statistics, Biology, or Both?" grand rounds, University of California, San Diego, Stein Institute for Research on Aging, August 23, 2004

2004.6 "Novel Multivariate Analysis Methods for Genomics," invited speaker, Department of Biostatistics, UCSD, September 6, 2004.

2004.7 "Genomics for Dummies," invited speaker, Advances in Psychopharmacology, San Diego, California, October 8, 2004

2005.1 "The Genetics of Complex Disease," invited speaker, Kawasaki Disease Symposium, San Diego, California, February 18, 2005.

2005.2 "Human Genetics and Genomics," invited speaker, West Coast College of Biological Psychiatry, Pasedena, California, April 1, 2005.

2005.3 "Whole Genome and Genetic Background Analysis," invited speaker, USC symposium on Whole Genome Assocaition Studies (Duncan Thomas, organizer), USC Campus, Los Angeles, California, April 14, 2005.

2005.4 "Genetic Analysis in the Consortium on the Genetics of Schizophrenia (COGS)," invited speaker, Biological Psychiatry Meeting, Atlanta, Georgia, May 21.

2005.5 "Genomic Profiling," invited speaker, VIth FAP Symposium, La Jolla, CA, August 24-26.

2005.6 "Clinical and Molecular Genomic Profiling for Gene Discovery and Phenotypic Characterization," invited speaker, Cancer Center, La Jolla, CA, August 24.

2005.7 "Clinical and Molecular Genomic Profiling for Gene Discovery and Phenotypic Characterization," invited speaker, LOCI Seminar, La Jolla, CA, September 7.

2005.8 "DNA sequencing and microarrays: An introduction to the field of modern statistical genomics and bioinformatics," invited speaker, San Diego Chapter of the American Statistical Association, La Jolla, CA, September 10.

2005.9 "Clinical and Molecular Genomic Profiling for Gene Discovery and Phenotypic Characterization," invited speaker, Translational Genomics Research Institute (TGen), Phoenix, AZ, September 19.

2005.10 "Clinical and Molecular Genomic Profiling for Gene Discovery and Phenotypic Characterization," invited speaker, Venter Institute's Meeting on "genomes, medicine, and the environment." Hilton Head, Virginia, October 17-19.

2005.11 "Some New Directions for Data Analysis," invited speaker and section organizer, 4th Annual Meeting of the Longevity Consortium, San Diego, CA, November 30.

2005.12 "Genomics and Proteomics Discovery Strategies: Integrative Genomics and Quantitative Human Clinical Studies," Workshop Canadian Consulate for Biotechnology, San Diego, CA, November 30.

2005.13 "Clinical and Molecular Genomic Profiling for Gene Discovery and Phenotypic Characterization," invited speaker, University of Colorado, December 2.

2005.14 "Molecular, Clinical, and Population Profiling in Similarity Analysis," invited speaker, 6th Annual Meeting of he ADHD Molecular Genetics Network, Miami, Florida, November 20, 2005.

2006.1 "Multivariate Profiling in Imaging and Genetics" invited speaker, UCI Workshop on Imaging and Genetics, University of California, Irvine, January 16, 2006.

2006.2 "Molecular, Clinical, and Population Profiling in Similarity Analysis," invited speaker, University of Washington, February 2, 2006.

2006.3 "Tutorial on Applied and Human Population Genetics," invited speaker and organizer, Inaugural Symposium on Information Theory and Applications, University of California, San Diego, Feb. 6 – 10, 2006.

2006.4 "Genetic, Molecular, and Clinical Profiling via Similarity Analysis," invited speaker, Ligand Pharmaceutical, La Jolla, CA, February 14, 2006.

2006.5 "Genetic Epidemiology and Modern Human Genetics and Genomics," guest speaker, UCSD T32 Fellows lecture series, San Diego VA Hospital, April 15, 2006.

2006.6 "Similarity Analysis: Motivation and Applications," invited speaker, UCLA psychiatric genetics group, Los Angeles, CA, May 3, 2006.

2006.7 "Modern Statistics Genetics Resources," invited speaker, Annual Meeting of the Society for Biological Psychiatry, Toronto, Canada, May 19, 2006.

2006.8 "Computational Science in Modern Human Genomics," invited speaker, Alliance for Equity in Higher Education, San Diego, June 27, 2006

2006.9 "Pharmacogenetics and Pharmacogenomics," invited speaker, Ligand Pharmaceuticals Board of Directors meeting, San Diego, July 17, 18, 2006.

2006.10 "Evolution, Humanity and Genomic Diversity: Deviations vs. Variations," invited speaker, UCSD Medical Scientist Graduate Training Program Annual Retreat. La Jolla, California, August 27, 2006.

2006.11 "New Directions for Genetic Association Studies: Whole Genome and Sequence-Based Analyses," invited speaker, Venter Institute, Rockville, Maryland, September 22, 2006.

2006.12 "A Comparison of Statistical Methods for Genome-Wide Association Studies," invited speaker, Genetic Epidemiology Research Institute, University of California, Irvine, October 6, 2006.

2006.13 "Novel Analysis Methods for Whole Genome Association Studies," invited speaker, Biostatistics and Bioinformatics Seminar Series, University of California, San Diego, October 18, 2006.

2006.14 "New Directions for Genetic Association Studies," invited speaker, 10th Scientific Advisory Board Meeting, Genome Institute of Singapore, Singapore, October 30 – November 1, 2006.

2006.15 "Novel Analysis Methods for Whole Genome Association Studies," invited speaker, Department of Preventive Medicine Biostatistics Seminar Series, University of Southern California, Los Angeles, November 8, 2006.

2006.16 "Novel Approaches to Genetic Analysis," invited participant, Genome Quebec and Moores UCSD Cancer Center collaborative discussions, La Jolla, November 16, 2006.

2006.17 "Similarity Analysis: Applications in Genetics and Genomics," invited speaker, San Diego Chapter American Statistical Association, University of California, San Diego, November 17, 2006.

2007.1 "Multivariate Analysis of Combined Imaging and Genomic Data," invited speaker, UCI Workshop in Imaging and Genetics, University of Irvine, January 15, 2007.

2007.2 "The Analysis of Multivariate Similarity: Theory and Applications," invited speaker, UCSD Artificial Intelligence Seminar Series. March 5, 2007.

Invited and Pending Presentations

2007.3 "Large-scale data analysis in bioinformatics and genomics," invited speaker, Annual Meeting of the Biological Psychiatry Organization. San Diego, California, May 17, 2007.

PUBLISHED INTERVIEWS

1995.1 Sue Goetinck, "Pressure Lookers – Scientists search for genetic causes behind hypertension," *The Dallas Morning News*, D6-D8, Monday, September 4, 1995

1996.1 Virginia Morell, "Manic Depression Findings Spark Polarized Debate," *Science*, 272:31-32; 1996.

1999.1 Malorye A. Branca, Kenneth Rubenstein, "Single Nucleotide Polymorphisms: Commercial and Scientific Prospects," Cambridge, Cambridge Health Tech Institute, 1999.

1999.2 "Applying the Discoveries from the Genome Project," *Genetic Engineering News*, September 1, 1999, Volume 19 (15)

1999.3 "SNPs and SNP Analysis," Cold Spring Harbor Laboratory WWW interview series, (Jan Witkowski, organizer), October, 1999.

2000.1 Leslie Roberts, "SNP Mappers Confront Reality and Find It Daunting," *Science* 287; 1898-1988; 2000.

2000.2 Anthony R. Porcari and Ronald J. Shebuski, "Meeting report of the ASPET Colloquium: Functional genomics," *Clinical and Experimental Therapeutics.*

2002.1 Lucy J. Sannes, "Predictive Pharmacogenomics: Revolutionizing Health Care," Cambridge: Cambridge HealthTech Institute

2002.2 Jean McCann, "Color of skin no way to prescribe drugs," *Drug Topics*, May 19, 2003

2006.1 Nancy Jenkins, "Movers," Nature 441:904, 2006

COMMITTEE AND ADMINISTRATIVE SERVICE

National

1994	NIA-appointed member, Alzheimer's Research Planning Committee, Bethesda, MD.
1995-2002	Steering committee member: The Family Blood Pressure Program, NIH-NHLBI.
1995	Co-organizer: Symposium on the Biology and Genetics of Complex Traits, The Jackson Laboratory, Bar Harbor, ME, (September 13-17).
1996-2003	NIA-selected working group member: The Genetics of Longevity.
1996–2001	Associate director, Harvard Program for Population Genetics.
1997	NIH-appointed working group member: Research on the Molecular Genetics of Speech and Language.
1997	Organizer: Roche/Jackson Laboratory Symposium on Function Genomics, Roche Biosciences, Palo Alto, CA (October 6).
1998	Organizer: Roche/Jackson Laboratory Symposium on Polymorphisms and Drug Discovery, Roche Discovery, Welwyn, England (May 19).
1998	Organizer: Astra/Jackson Laboratory Workshop on the Mouse in Genetics Research, Sweden (August 30).
1998–2000	Member, scientific advisory committee, "Kidney Development and Cytogenesis," NIH program project grant awarded to Harvard University (Amin Arnaout, PI).
1998–2001	Member, Data Safety and Monitoring Board, The Family Heart Study, NIH-NHLBI
1999	Review team member, Wellcome Trust , Oxford Centre for Gene Function (December)
1998–2001	Advisor on the grant, "The Genetics of Alcoholism," University of Pittsburgh, (5 R01 AA05909, Shirley Hill, PI).
2000	Advisory board member, Harvard Medical School, Department of Medicine, SCOR Grant (Gordon Williams, PI).
2000	Co-chair, association studies advisory board, National Association on Aging
2000-2006	Member of the Committee on Twins Studies, Institute of Medicine, the National Academies
2001	Review panel member, NIDDK, Phoenix, AZ (Clifton Borgardus, P.I.)
2002-2003	Co-director, Committee on Biostatistics and Population Genetics, NIH PharmGKB initiative
2002-Present	Member of the Internal Scientific Review Committee for Opportunity Funds, National Institute on Aging, the Longevity Consortium
2003-2005	External advisory board member, Mt. Sinai School of Medicine, Children's Oncology Group Acute Lymphoblastic Leukemia SPORE grant (William Carroll, P.I.)

2003-Present	Member of the Food and Nutrition Board, Institute of Medicine, the National Academies
2003	NIH-appointed review panel member, Laboratory of Epidemiology, Demography, and Biometry
2003-Present	Member of the Scientific Advisory Board, NIH-funded consortium grant on ADHD
2003-2005	External steering committee member, Johns Hopkins Pepper Center in Aging Research.
2004	Reviewer, *Identifying and Assessing Unintended Effects of Genetically Engineered Foods on Human Health*; Division on Earth and Life Studies, National Research Council
2004	Reviewer, *Safety of Genetically Engineered Foods: Approaches to Assessing Unintended Health Effects.* Institute of Medicine, Food and Nutrition Board
2004	Member, NCI-sponsored "Susceptibility and Resistance to Cancer Think Tank."
2005-Present	Organizer and Chair, "Nutrigenomics and Beyond: Informing the Future." National Academy of Sciences, Washington, D.C., June 1-2.

State of California

2006- Present	Committee Member, Joint Committee on interactions between the state judiciary and the University of California system.

University of California, San Diego

2001-Present	Co-organizer, Contemporary Issues in Human Genetics seminar series
2001-2006	Member, Department of Psychiatry, Faculty Ad Hoc Review Committees (3)
2002-2005	Member, School of Medicine, Conflict of Interest Management Committee
2002-Present	Scientific review board member, Center for Medicinal Cannabis Research
2003-Present	Member, UCSD Health Sciences Faculty Research Council
2003-2003	Member, San Diego Supercomputer Center Biosciences Advisory Council
2004-2007	Member, Department of Psychiatry K Award Committee
2004-2006	Member, Campus-wide Shared Resources Committee
2004-2005	Member, Burroughs-Wellcome Fellowship Program Committee
2004-2005	Member, Systems Engineering and Medicine Committee
2005-2007	Organizer, Interactions with the Venter Institute of Rockville, Maryland.
2005-2007	Chairman, School of Medicine, Conflict of Interest Management Committee
2006	Co-organizer, "Information Theory and Applications", Inaugural Workshop,
2006-Present	Member, Working Group on the Interface of Medicine and Engineering (Dean's office)
2006-Present	Member, CTSA Steering Committee

2006-2007 Medical Scientist Training Program Admissions Committee Member

2006-Present Member, Senate-Administration Task Force on Multidisciplinary Joint Faculty Appointments

2006 Steering committee, Cancer Center Retreat

2007-Present Member, San Diego Supercomputer Center Oversight and Executive Committee

University of California, Irvine

2004-Present Member, Genetic Epidemiology Research Institute Advisory Board

Case Western Reserve University

1994-1995 Seminar series co-organizer, Department of Genetics

BIBLIOGRAPHY

Completed Publications in Scientific Journals

Peer Reviewed Publications

1. Hinderliter AL, Fitzpatrick MA, Schork NJ, Julius S: Research utility of noninvasive methods for measurement of cardiac output. Clin Pharmacol Ther 1987; 41:419-25.

2. Weder AB, Sekkarie MA, Takiyyuddin M, Schork NJ, Julius S: Antihypertensive and hypotensive effects of atrial natriuretic factor in men. Hypertension 1987; 10:582-9.

3. Johnson EH, Schork NJ, Spielberger CD: Emotional and familial determinants of elevated blood pressure in black and white adolescent females. J Psychosom Res 1987; 31:731-41.

4. Egan BM, Panis R, Hinderliter A, Schork N, Julius S: Mechanism of increased alpha-adrenergic vasoconstriction in human essential hypertension. J Clin Invest 1987; 80:812-7.

5. Schork, NJ and Schork MA: Skewness and mixtures of normal distributions. Communications in Statistics - Theory and Methods 1988; 17:3951-69.

6. Egan BM, Schork N, Panis R, Hinderliter A: Vascular structure enhances regional resistance responses in mild essential hypertension. J Hypertens 1988; 6:41-8.

7. Egan BM, Conlon ME, Campbell R, Schork N, Zweifler A, Julius S: Effects of ketanserin on blood pressure and platelet aggregation in elderly men with mild hypertension. Am J Hypertens 1988; 1:324S-30S.

8. Julius S, Schork N and Schork A: Sympathetic hyperactivity in early stages of hypertension: the Ann Arbor data set. J Cardiovasc Pharmacol 1988; 12:S121-9.

9. Weder AB and Schork NJ: Mixture analysis of erythrocyte lithium-sodium countertransport and blood pressure. Hypertension 1988; 13:145-50.

10. Gupta MA, Gupta AK, Kirkby S, Weiner HK, Mace TM, Schork NJ, Johnson EH, Ellis CN, Voorhees JJ: Pruritus in psoriasis: A prospective study of some psychiatric and dermatologic correlates. Arch Dermatol 1988; 124:1052-7.

11. Gupta MA, Gupta AK, Kirkby S, Schork NJ, Gorr SK, Ellis CN, Voorhees JJ: A psychocutaneous profile of psoriasis patients who are stress reactors: A study of 127 patients. Gen Hosp Psychiatry 1989; 11:166-73.

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Abstracts, Preliminary Communications, Panel Discussions **(Available upon request)**