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EDUCATION AND POSITIONS

- 2006-present** Assistant Professor, Department of Genetics, Case Western Reserve University School of Medicine, Cleveland, OH.
- 2000-2006** Postdoctoral Research Fellow, National Human Genome Research Institute, NIH, Bethesda, MD. Advisor: Francis S. Collins, M.D., Ph.D.
- 2000-2005** Instructor, Johns Hopkins University, Advanced Academic Programs
Course Director: Advanced Cell Biology, Human Molecular Genetics
- 1996-1999** Ph.D. in Biochemistry and Molecular Genetics, University of Pittsburgh, Pittsburgh, PA. Advisor: Eric P. Hoffman, Ph.D.
Thesis: Molecular mechanisms underlying dominantly inherited muscular dystrophy.
- 1994-1996** Molecular Diagnostic Service Technician, University of Pittsburgh School of Medicine, Pittsburgh, PA. Supervisor: Eric P. Hoffman, Ph.D.
- 1990-1994** B.S. in Biology, Gettysburg College, Gettysburg, PA

RESEARCH SUPPORT

Active

- 2008-2012** 1 R01 HG004722-01
NIH/NHGRI - Development of a universal tagging method for genome wide ChIP analyses
Role, Co-PI, Direct Costs: \$750,000
- 2009-2011** 3R01HG004722-02S1
ARRA Supplement to above grant
Role, Co-PI, Direct Costs: \$121,880
- 2007-2012** 1 R01 HD56369
NIH/NICHHD - Genomic Studies of CHD7 in CHARGE syndrome
Role: PI, Direct Costs: \$1,045,500

Completed

- 2010-2011** 3R01HD056369-04S1

NIH/NICHD - Genomic Studies of CHD7 in CHARGE syndrome (ARRA Supplement to parent R01)
Role: PI, Amount \$65,000

2006-2009 1 K22 CA103843-01A2
NIH/NCI - Role of menin in islet tumorigenesis
Role: PI, Amount: \$465,750

1998-1999 American Heart Association
Graduate Student Research Award, Amount: \$12,500

AWARDS

2009 Gettysburg College Young Alumni Achievement Award for Career Development
2008 CWRU Genetics - Outstanding Junior Faculty Award
2004 NHGRI Intramural Research Award
The NHGRI Research Award is awarded once a year to a single postdoctoral research fellow within intramural program at NHGRI. The award is based on scholarship and fundamental contribution to biology.
2004 Fellows Award for Research Excellence, NIH, Bethesda, MD (\$1000 prize)
2003 NHGRI Director's Distinguished Service Award, NIH, Bethesda, MD
2002 NHGRI Outstanding Scientific Merit Award, NIH, Bethesda, MD
1994 William C. and Helen H. Darrah Award in Biology, Gettysburg College, Gettysburg, PA

PUBLICATIONS

Primary Research Articles

1. Najm F, Zaremba A, Capriariello A, Nayak S, Freundt E, Miller R, **Scacheri PC**, Tesar PJ. Rapid and robust generation of functional oligodendrocyte progenitor cells from epiblast stem cells. ***Nature Methods***, *in press*.
2. Zentner GE, Tesar PJ, **Scacheri PC**. Epigenetic signatures distinguish multiple classes of enhancers with distinct cellular functions. ***Genome Res***. 2011.
3. Yazbek SN, Buchner DA, Geisinger JM, Burrage LC, Spiezio SH, Zentner GE, Hsieh CW, **Scacheri PC**, Croniger CM, Nadeau JH. Deep congenic analysis identifies many strong, context-dependent QTLs, one of which, Slc35b4, regulates obesity and glucose homeostasis. ***Genome Res***. 2011.
4. Zentner G, Saiakhova A, Manaenkov P, Adams MD, **Scacheri PC**. Integrative analysis of human ribosomal DNA. ***Nucleic Acids Res***. 2011.
5. Bartels, Scacheri C, White L, **Scacheri PC***, Bale S. Mutations in the *CHD7* gene: The experience of a commercial laboratory. ***Genet Test Mol Biomarkers***, 2010, 14:881-91. ***Co-senior author**
6. Tran T, Jarrell A, Zentner G, Welsh A, Brownell I, **Scacheri PC**, Atit R. Distinct role of canonical Wnt signaling/beta-catenin in inducing cranial dermal cells from a multipotential precursor. ***Development***. 2010, 137:3973-84.
7. Schnetz MP, Handoko L, Akhtar-Zaidi B, Bartels CF, Pereira CF, Fisher AG, Adams DJ, Flicek P, Crawford GE, LaFramboise T, Tesar P, Wei CL, **Scacheri PC**. CHD7 targets active gene

enhancer elements to modulate ES cell-specific gene expression. *PLoS Genetics*, 2010. 6: e1001023. ***Feature article**

8. Zentner GE, Hurd EA, Schnetz MP, Handoko L, Wang C, Wang Z, Wei CL, Tesar PJ, Hatzoglou M, Martin DM, **Scacheri PC**. CHD7 functions in the nucleolus as a positive regulator of ribosomal RNA biogenesis. *Hum Mol Genet*, 2010, 19:3491-501.
9. Tie F, Banerjee R, Stratton CA, Prasad-Sinha J, Stepanik V, Zlobin A, Diaz MO, **Scacheri PC**, Harte PJ. CBP-mediated acetylation of histone H3 lysine 27 antagonizes *Drosophila* Polycomb silencing. *Development*, 2009, 136:3131-41.
10. Tao MF, **Scacheri PC**, Marinis JM, Harhaj EW, Matesic LE, Abbott DW. ITCH directly K63-ubiquitinates the NOD2 binding protein, RIP2, to influence inflammatory signaling pathways." *Current Biology* 2009. 19:1255-63.
11. Schnetz MP, Bartels CF, Shastri K, Balasubramanian D, Zentner G, Balaji R, Zhang X, Song L, Wang Z, LaFramboise T, Crawford GE, **Scacheri PC**. Genomic distribution of CHD7 on chromatin tracks H3K4 methylation patterns. *Genome Research* 2009, 19(4):590-601.
12. Johnson DS, Li W, Gordon DB, Bhattacharjee A, Curry B, Ghosh J, Brizuela L, Carroll JS, Brown M, Flicek P, Koch CM, Dunham I, Bieda M, Xu X, Farnham PJ, Kapranov P, Nix DA, Gingeras TR, Zhang X, Holster H, Jiang N, Green R, Song JS, McCuine SA, Anton E, Nguyen L, Trinklein ND, Ye Z, Ching K, Hawkins D, Ren B, **Scacheri PC**, Rozowsky J, Karpikov A, Euskirchen G, Weissman S, Gerstein M, Snyder M, Yang A, Moqtaderi A, Hirsch H, Shulha HP, Fu Y, Weng Z, Struhl K, Myers RM, Lieb JD, Liu XS. Systematic evaluation of variability in ChIP-chip experiments using predefined DNA targets. *Genome Research* 2008, 18:393-403.
13. Zhang X, Guo C, Chen Y, Shulha HP, Schnetz M, LaFramboise T, Bartels C1, Markowitz S, Weng Z, **Scacheri PC***, Wang Z. Epitope tagging of endogenous proteins in somatic cells for genome wide ChIP-chip studies. *Nature Methods* 2008, 5:163-165. ***Co-senior author**
14. Agarwal SK, Impey S, McWeeney S, **Scacheri PC**, Collins FS, Goodman RH, Spiegel AM, Marx SJ. Distribution of menin-occupied regions in chromatin specifies a broad role of menin in transcriptional regulation. *Neoplasia* 2007, 9:101-7.
15. **Scacheri PC**, Crawford GE, Davis S. Statistics for ChIP-chip and DNase hypersensitivity experiments on NimbleGen arrays. *Methods Enzym.* 2006, 411: 270-282.
16. Crawford GE, Davis S, **Scacheri, PC**, Renaud G, Halawi MJ, Erdos MR, Green R, Meltzer PS, Wolfsberg TG, Collins FS. DNase-chip: A high resolution method to identify DNaseI hypersensitive sites using tiled microarrays, *Nature Methods* 2006, 3: 503-509.
17. **Scacheri PC**, Davis S, Odom DT, Crawford GE, Perkins S, Halawi MJ, Agarwal SK, Marx SJ, Spiegel AM, Meltzer PS, Collins FS. Genome-Wide Analysis of Menin Binding Provides Insights to MEN1 Tumorigenesis. *PLoS Genetics* 2006, 2(4): e51.
18. **Scacheri PC**, Crabtree JS, Kennedy AL, Swain G, Ward J, Marx S, Spiegel A, Collins FS. Homozygous loss of menin is well tolerated in liver, a tissue not affected in MEN1. *Mamm Genome* 2004; 15: 872-7.
19. **Scacheri PC**, Kennedy AL, Miller M, Chin K, Gray J, Marx S, Spiegel A, Collins FS. Pancreatic insulinomas in Men1 knockout mice can develop in the absence of chromosome instability or microsatellite instability. *Cancer Research* 2004; 64: 7039-44.

20. **Scacheri PC**, Rozenblatt-Rosen O, Caplen NJ, Wolfsberg TG, Umayam L, Lee JC, Hughes CM, Shanmugam KS, Bhattacharjee A, Meyerson M, Collins FS. Short interfering RNAs can induce unexpected and divergent changes in the levels of untargeted proteins in mammalian cells. **PNAS** 2004; 101: 1892-1897.
21. Crabtree JS, **Scacheri PC**, Ward JM, McNally SR, Swain GP, Montagna C, Hager JH, Hanahan D, Edlund H, Magnuson MA, Garrett-Beal L, Burns AL, Ried T, Chandrasekharappa SC, Marx SJ, Spiegel AM, Collins FS. Of mice and MEN1: Insulinomas in a conditional mouse knockout. **Mol. Cell. Biol.** 2003; 23: 6075-85.
22. Yim SH, Ward JM, Dragon Y, Yamada A, **Scacheri PC**, Kimura S, Gonzalez FJ. Microarray analysis using amplified mRNA from laser capture microdissection of microscopic hepatocellular precancerous lesions and frozen hepatocellular carcinomas reveals unique and consistent gene expression profiles. **Toxicologic Pathology** 2003; 31: 295-303.
23. **Scacheri PC**, Gillanders EM, Subramony SH, Vedanarayanan V, Crowe CA, Thakore, N, Bingler M, Hoffman EP. Novel mutations in collagen VI genes: Expansion of the Bethlem myopathy phenotype. **Neurology** 2002; 58:593-602.
24. **Scacheri PC**, Crabtree JS, Novotny EA, Garrett-Beal L, Chen A, Edgemon KA, Marx SJ, Spiegel AM, Chandrasekharappa SC, Collins FS. Bidirectional transcriptional activity of PGK-neomycin and unexpected embryonic lethality in heterozygote chimeric knockout mice. **Genesis** 2001; 30: 269-263.
25. Crabtree JS, **Scacheri PC**, Ward JM, Garrett-Beal L, Emmert-Buck M, Edgemon KA, Lorang D, Libutti SK, Chandrasekharappa SC, Marx SJ, Spiegel AM, Collins FS. A mouse model of multiple endocrine neoplasia, type I, develops multiple endocrine tumors. **PNAS** 2001; 111:18-23.
26. **Scacheri PC**, Hoffman EP, Fratkin JD, Semino-Mora C, Senchak A, Davis M, Laing N, Vedanarayanan V, Subramony S. A novel ryanodine receptor gene mutation causing both cores and rods in congenital myopathy. **Neurology** 2000; 55: 1689-96.
27. **Scacheri PC**, Garcia C, Hebert R, Hoffman EP. Unique *PABP2* mutations in "Cajuns" suggest multiple founders of oculopharyngeal muscular dystrophy in populations with French ancestry. **Am J Med Genet** 1999; 86: 477-481.
28. James SW, Bullock KA, Gyax SE, Kraynack BA, Matura RA, MacLeod JA, McNeal KK, Prasauckas KA, **Scacheri PC**, Shenefiel HL, Tobin HM, Wade SD. *nimO*, an Aspergillus gene related to budding yeast Dbf4, is required for DNA synthesis and mitotic checkpoint control. **J Cell Sci** 1999; 112: 1313-24.
29. Garcia-Heras J, Martin JA, Day DW, **Scacheri PC**, Witchel SF. "De novo" duplication Xq23→Xq26 of paternal origin in a girl with a mildly affected phenotype. **Am J Med Genet** 1997; 70: 404-408.
30. Morrone A, Zammarchi E, **Scacheri PC**, Hoop RC, Donati A, Servidei S, and Hoffman EP. Asymptomatic dystrophinopathy. **Am J Med Genet** 1997; 69: 261-267.
31. Garcia-Heras J, Martin JA, Witchel SF, **Scacheri PC**. De novo der(X)t(X;10)(q26;q21) with features of distal trisomy 10q: case report of paternal origin identified by late replication with BrdU and the human androgen receptor assay (HAR). **J Med Genet** 1997; 34: 242-245.

32. Hoffman EP, Pegoraro E, **Scacheri PC**, Burns RG, Taber JW, Weiss L, Spiro A, and Blattner P. Genetic counseling of isolated carriers of Duchenne muscular dystrophy. *Am J Med Genet* 1996; 63: 573-580.
33. James SW, Mirabito PM, **Scacheri, PC**, and Morris NR. The *Aspergillus nidulans bimE* (blocked-*in-mitosis*) gene encodes multiple cell cycle functions involved in mitotic checkpoint control and mitosis. *J. Cell Science* 1995; 108: 3485-3499.

Book Chapters and Reviews

1. Zentner GE, **Scacheri PC**. The Chromatin Fingerprint of Gene Enhancer Elements. *J Biol Chem*. (invited review) *submitted*.
2. Zentner GE, Layman WS, Martin DM, **Scacheri PC**. Molecular and phenotypic aspects of *CHD7* mutation in CHARGE syndrome. *Am J Med Genet*, 2010;152A: 674-86.
3. Balasubramanian D, **Scacheri PC**. Functional studies of menin through genetic manipulation of the *Men1* homolog in mice. Balasubramanian D, Scacheri PC. *Adv Exp Med Biol*. 2009; 668:105-15.
4. Agarwal SK, Kennedy PA, **Scacheri PC**, Novotny EA, Hickman AB, Cerrato A, Rice TS, Moore JB, Rao S, Ji Y, Mateo C, Libutti SK, Oliver B, Chandrasekharappa SC, Burns AL, Collins FS, Spiegel AM, Marx SJ. Menin molecular interactions: insights into normal functions and tumorigenesis. *Horm Metab Res*. 2005; 37:369-74.
5. Agarwal SK, Burns LA, Sukhodolets KE, Kennedy PA, Obungu VH, Hickman AB, Mullendore ME, Whitten I, Skarulis MC, Simonds WF, Mateo C, Crabtree JS, **Scacheri PC**, Ji Y, Novotny EA, Garrett-Beal L, Ward JM, Libutti SK, Richard Alexander H, Cerrato A, Parisi MJ, Santa Anna-A S, Oliver B, Chandrasekharappa SC, Collins FS, Spiegel AM, Marx SJ. Molecular pathology of the MEN1 gene. *Ann N Y Acad Sci*. 2004;1014: 189-98.

INVITED MEETINGS AND ORAL PRESENTATIONS

- 2011 Department of Human Genetics, Emory University – Atlanta, GA
- 2011 Dartmouth Medical School – Lebanon, NH
- 2011 International Conference on Pathways, Networks and Systems Medicine – Chania, Greece
- 2011 International CHARGE syndrome conference – Orlando, FL
- 2011 Epigenetics World Congress – Boston, MA
- 2011 Department of Cell Biology, Lerner Research Institute, Cleveland Clinic Foundation
- 2011 National Eye Institute, National Institutes of Health – Bethesda, MD
- 2011 Institute for Systems Biology – Seattle, WA
- 2010 Department of Biology, Drexel University – Philadelphia, PA
- 2010 Department of Human Genetics, University of Michigan – Ann Arbor, MI
- 2010 MetroHealth Medical Center – Cleveland, OH
- 2010 Epigenetics Europe – Dublin, Ireland
- 2010 Children’s National Medical Center – Washington DC
- 2010 John Carroll University – University Heights, OH
- 2009 American Society of Human Genetics (Moderator and Speaker for Invited Scientific Session on CHD7 and CHARGE syndrome) – Honolulu, HI
- 2009 International CHARGE syndrome Conference – Bloomingdale, IL
- 2009 Genomic Medicine Institute, Cleveland Clinic Foundation – Cleveland, OH
- 2008 National Institutes of Health – Bethesda, MD

- 2008 University of Western Ontario – London Ontario, Canada
- 2007 Cleveland State University - Cleveland, OH
- 2006 American Society of Human Genetics - New Orleans, LA
- 2005 American Society of Human Genetics - Salt Lake City, UT
- 2005 National Cancer Institute - Bethesda, MD
- 2005 Oklahoma University Medical Center - Oklahoma City, OK
- 2005 Medical College of Wisconsin - Milwaukee, WI
- 2004 Children's National Medical Center - Washington DC
- 2004 Multiple Endocrine Neoplasia Conference - "Hot Topic" - Bethesda, MD
- 2003 NIH - Rehabilitative Medicine Department - Bethesda, MD
- 2003 American Society of Human Genetics - Los Angeles, CA
- 2003 NIH Endocrinology Interest Group - Bethesda, MD
- 2003 Distinguished Alumni Speaker - Gettysburg College - Gettysburg, PA
- 2002 American Society of Human Genetics - Baltimore, MD
- 2002 International Symposium on Multiple Endocrine Neoplasia - Lyon, France
- 2002 Tuberous Sclerosis Complex Alliance Conference - Chantilly, VA
- 1998 Graduate Student Symposium - University of Pittsburgh - Pittsburgh, PA

TRAINEES – ORAL PRESENTATIONS & AWARDS

- 2011 Gabe Zentner - International Conference on Pathways, Networks and Systems Medicine – Chania, Greece
- 2011 Michael P. Schnetz - Arthur F.W. Hughes Award in Developmental Biology
- 2010 Michael P. Schnetz – Keystone symposium on Dynamics of Eukaryotic Transcription during Development – Big Sky, MT
- 2008 Michael P. Schnetz - American Society of Human Genetics – Philadelphia, PA

SERVICE

National and International

- 2011-present Associate Editor, Frontiers in Cancer Genetics
- 2011 National Science Foundation - Life Science Research Tools Review Panel
- 2011 Grant Reviewer, Italian Telethon Foundation
- 2011 Grant Reviewer, Medical Research Council
- 2010-present Editorial Board, Genome Research
- 2010-present Curator, MutaDATABASE
- 2010 Grant Reviewer, The Italian Ministry of Health, GGG Study Section
- 2010 Abstract Reviewer for American Society of Human Genetics Annual Meeting
- 2006 Grant Reviewer, Louis Stokes Cleveland Department of Veterans Affairs Medical Center.

Reviewer: BMC Bioinformatics, BMC Research Notes, Cancer Research, Current Molecular Medicine, Genome Biology, Genome Research, Human Molecular Genetics, Journal of Genetic Counseling, Journal of Pediatrics, Nature Clinical Practice Endocrinology and Metabolism, Nucleic Acids Research, Ophthalmic Genetics, Physiological Genomics, PLoS Computational Biology, PNAS.

Local

- 2011-present Steering Committee Member, CWRU Medical Science Training Program (MD/PhD program)
- 2011-present Steering Committee member, CWRU Cell and Molecular Biology Training Program
- 2010-present CWRU High-Throughput Sequencing Operations Committee

2010-present CWRU Department of Genetics Strategic Planning Committee
2010-present CWRU Genetics Graduate Student Program Admissions Committee
2007-present CWRU Postdoctoral Mentoring Program Organizing Committee
2006-present Interviewer for Biomedical Sciences Training Program (BSTP) and Medical Science Training Program (MSTP)
2009-2011 CWRU Biomedical Sciences Training Program - Graduate Student Admissions Committee
2010 CWRU Biomedical Graduate Student Symposium – Judge
2009 Speaker, CWRU Professional Skills Program
2008-2009 Faculty advisor for CWRU Department of Genetics Annual Scientific Retreat
2008 Grant Reviewer for Case Comprehensive Cancer Center
2002 NIH Post-Doctoral/Clinical Fellows Committee, NIH, Bethesda, MD

CWRU SEMINARS

2011 Department of Pharmacology Seminar Series
2010 Sequencing Data Interest Group Seminar Series
2009 Medical Genetics Grand Rounds Seminar Series
2008 Biomedical Graduate Student Organization – Professional Development Seminar
2008 Hematology/Oncology "Blood Club" Seminar Series
2007 Department of Pharmacology Seminar Series
2007 Department of Pathology Seminar Series
2006 Medical Genetics Grand Rounds Seminar Series
2006 Department of Biochemistry Seminar Series

CWRU TRAINING

Post-docs

2008-2010 Elaine Pierce, PhD
2007-present Dheepa Balasubramanian, PhD

Graduate Students

2011-present Andrea Cohen (MD/PhD Training Program)
2010-present Olivia Corridin (Biomedical Sciences Training Program)
2009-present Batool Akhtar-Zaidi (CWRU/CCF Molecular Medicine Program)
2008-present Stephanie Balow (Genetics Training Grant Fellowship)
2008-present Gabriel Zentner (Developmental Biology Training Grant Fellowship)
2010-2011 Pavel Manaenkov (MS in Computer Science)
2007-2010 Michael P. Schnetz, PhD (Developmental Biology Training Grant Fellowship)
2006-2008 Kuntal Shastri (MS in Genetics)

Technicians/Bioinformaticians

2010-present Alina Saiakhova
2008-present Deborah Schelling
2006-present Cindy Bartels

Rotation Students (*Joined)

2010 Andrea Cohen (MSTP)*, Olivia Corridin (BSTP)*, Courtney Niland (BSTP), Christopher McGuinness (BSTP), George Aranguéz (Genetics)
2009 Batool Akhtar-Zaidi (CWRU/CCF Molecular Medicine Program)*

- 2008** Joseph Vithayathil (MSTP), Dezhi Hou (Genetics), Stephanie Balow (BSTP)*, Gabriel Zenter (BSTP)*
- 2007** Micheal P. Schnetz (BSTP)*
- 2006** Kristin Morrison (Genetics), Joanna Pucilowska (BSTP), Pamela Soda (BSTP), Kuntal Shastri (BSTP)*

Thesis Committees (outside my lab)

- 2011-present** Ahmet Ozer (CWRU, Genetics, Daneshgari lab)
- 2011-present** Jinyu Wang (CWRU, Genetics, Runge lab)
- 2011-present** Steven Wylter (CWRU, Neuroscience, Deneris lab)
- 2010-present** Jessica Eisenstatt (CWRU, Biochemistry, Sanders lab)
- 2009-present** Shamone Gore (CWRU/CCF Molecular Medicine Program, Smith lab)*
- 2007-present** Nikole Lott (CWRU, Biochemistry, Sanders lab)
- 2008-2010** Alex Siebold (CWRU, Genetics, Harte Lab) *
- 2007-2010** Vicki Nelson (CWRU, Genetics, Nadeau lab) *
- 2006-2009** Amada Tencza (MS, MD, Cleveland Clinic, Levine lab)
- 2006-2008** Toni Bartling (Ph.D. – CWRU, Pediatrics and Genetics, Drumm lab)
- 2006-2007** Elizabeth Smith Lindsey-Janoski (MS - Genetic Counseling Program, CWRU)
- *Chair

Qualifying Exam Committees

- 2011** Jenna Sroka (CWRU, Biochemistry)

Visiting Scholars

- 2007** Mike Levy, Graduate Student, Nathalie Berube's Lab, University of Western Ontario

Program Memberships

- 2011-present** CWRU Cell and Molecular Biology Training Program
- 2008-2011** CWRU Genetics Training Program
- 2007-2011** CWRU Developmental Biology Training Program

TEACHING

- 2011** Introduction to Sequencing Data Analysis (EPBI476)
- 2009-present** Molecular Genetics of Cancer 420
- 2009** Course Director – GENE521: Chromatin, Epigenetics, and Disease
- 2008** Interactive Session with CWRU medical students
- 2007** Module in Anatomy 417
- 2006-present** Genomics Module in Advanced Eukaryotic Genetics (GENES500)
- 2006-2010** Genetics Module in Coordinated Curriculum in Cell and Molecular Biology (C3MB)
- 2000-2005** Johns Hopkins University, Advanced Academic Programs, Advanced Cell Biology, Human Molecular Genetics

PUBLIC SERVICE

- 2009** Mentor for Sara Saliba, Gilmour Academy Catalyst Program, Gates Mills, OH.
- 2008** John Hay High School – Panel discussion on ethics and genetics, Cleveland, OH
- 2003** Bristol-Myers-Squibb Tour of Hope National Team member, Princeton, NJ
- 2003** NHGRI Ambassador to Science Education, NIH, Bethesda, MD
- 2003** Smithsonian Museum Genome Exhibit Tour Guide - Washington DC