

Curriculum Vitae

Donna M. Martin, MD, PhD
Associate Professor of Pediatrics
Associate Professor of Human Genetics
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Personal Data

Name: Donna M. Martin, MD, PhD
Title: Associate Professor of Pediatrics
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Education and Training

8/83-5/87 Michigan Technological University, Houghton, Michigan, B.S.
Mathematics/Foreign Language Certificate in German
6/87-6/88 Visiting Student, Universität Stuttgart, Deutscher Akademischer Austauschdienst
8/88-12/92 The University of Michigan, Ann Arbor, Michigan, Ph.D., Neuroscience
8/92-6/96 The University of Michigan Medical School, Ann Arbor, Michigan, M.D.
8/96-7/97 Intern in Pediatrics, Mott Children's Hospital, The University of
Michigan, Ann Arbor, Michigan
8/97-6/99 Resident in Pediatrics, Mott Children's Hospital, The University of
Michigan, Ann Arbor, Michigan
7/99-6/01 Medical Genetics Residency/Postdoctoral Research (mentor: Sally Camper), The
University of Michigan, Ann Arbor, Michigan

Certification and Licensure

1994 United States Medical Licensing Exam Step 1-No. 40351538
1996 United States Medical Licensing Exam Step 2-No. 40351538
1997 United States Medical Licensing Exam Step 3-No. 40351538
10/19/99 American Board of Pediatrics- No. 067911, exp. 12/31/13
1999 State of Michigan Board of Medicine, No. 4301068270, exp 1/31/12
2000 State of Michigan Controlled Substance License, No. 4301068270, exp 1/31/12
9/01/02 American Board of Medical Genetics, Clinical Genetics, exp 12/31/2012
12/8/03 Drug Enforcement Administration Controlled Substance Registration Certificate,
expiration 1/31/13
3/2/07 National Provider Identification Number 1477531028

Academic, Administrative, and Clinical Appointments

Academic Appointments

7/01—12/02 Lecturer in Pediatrics and Communicable Diseases, Division of Genetics, The
University of Michigan School of Medicine
11/01—6/03 Research Investigator in The Department of Human Genetics, The University of
Michigan Medical School
1/03-- Faculty Member of the Neuroscience Program, The University of Michigan

1/03—9/08 Assistant Professor of Pediatrics and Communicable Diseases, Division of Genetics, The University of Michigan Medical School
7/03—9/08 Assistant Professor of Human Genetics, The University of Michigan
9/08-- Associate Professor of Pediatrics and Communicable Diseases (with tenure) The University of Michigan
9/08-- Associate Professor of Human Genetics, The University of Michigan
7/08-- Faculty Member, Cellular and Molecular Biology Program, The University of Michigan

Administrative Appointments

11/06-- Director, Medical Genetics Residency Program, The University of Michigan

Clinical Appointments

07/01-- Staff Physician, Marquette General Hospital, Marquette, Michigan

Research Interests

Developmental brain disorders of mammalian neuronal function
Central and peripheral nervous system dysfunction in humans and mice

Current Projects

Pitx2 function in the mammalian central nervous system
Functional analysis of *Chd7*, encoding a chromodomain protein mutated in CHARGE syndrome
Genetic analysis of autism and disorders of neurodevelopment

Grants

Active

Principal Investigator, R01 NS054784-01A1

Pitx2 Function in Developing Mouse Brain Neurons

Feb. 1, 2007-January 31, 2011 (\$1,285,255 total/\$875,000 direct costs)-in no cost extension

This proposal aims to determine the effects of *Pitx2* deficiency on *Pitx2* lineage neuronal migration and axonal outgrowth, and to test the effects of *Pitx2* isoform specific deficiency on neuronal development.

Principal Investigator

NIH, 1R01DC009410-01A1

Developmental mechanisms of the chromodomain gene *Chd7*

12/1/2008-9/30/2013 (\$1,851,345 total costs)

This grant aims to (1) characterize cellular proliferation, survival, and differentiation in *Chd7* mutant mice, (2) determine the contributions of neural and otocyst derivatives to inner ear development, and (3) characterize cultured inner ear and neural stem cells from *Chd7* mutant embryos and determine binding of CHD7 to target gene promoters.

ARRA Supplement to “Developmental Mechanisms of the Chromodomain Gene *Chd7*”

3R01DC009710-01A1S1, NIH/NIDCD

Martin (PI) 7/17/09–6/30/11 (\$264,156 total costs)

Developmental mechanisms of the chromodomain gene *Chd7*

The equipment and personnel funded by this supplement to 1R01DC009410 were provided to accelerate the pace of experiments that fall within the scope of the parent grant.

NIH/NICHD K12HD28820 Castle (PI)
Child Health Research Career Development Award /Child Health Research Center
Advancing child health through cell and molecular biology
9/1/07–8/31/12 (\$377,281 direct costs)

Goal: This grant provides support for junior investigators seeking research training in pediatrics.
Role: Recruitment Officer

Pending

March of Dimes

Analysis of CHD7, the Chromodomain Protein Mutated in CHARGE Syndrome, in GnRH
Neurons

6/1/2012-5/31/2015 (\$306,720 direct costs)

The goals of this grant are to generate and analyze mice with GnRH-specific loss of CHD7 and to characterize CHD7 binding sites in GnRH neurons.

NIH, R21

Retinoic acid signaling and chromodomain protein regulation of
inner ear morphogenesis

4/1/2012-3/31/2014 (\$194,375.00 total costs)

The goals of this project are to identify novel mechanisms of retinoic acid and CHD7-mediated defects in the developing inner ear, using conditional Chd7 mutant mice, retinoic acid agonists and antagonists, and retinoic acid reporter mice.

Co-Investigator (PI: Matt State, Yale University)

Simons Simplex Collection Genetics Consortium

7/1/2011-6/30/2012 (\$17,397 total costs)

Dr. Martin serves as the Genetics PI for the University of Michigan Simons Simplex collection. This subcontract is to cover effort for Dr. Martin's ongoing contributions to the genotype-phenotype analysis for the Simons Simplex Collection of 3000 individuals with autism spectrum disorders and their families.

Co-Investigator (PI: Raphael)

NIH, R01

Supporting Cells in Deaf Ears: A Substrate for Hearing Restoration Therapy

04/01/2012-03/31/2017 (\$1,943,750.00 total costs)

The goals of this project are to characterize the mouse inner ear cellular substrates for potential trans-differentiation therapies using viral vectors. The emphasis in this project is on identifying novel gene expression patterns in supporting cells that are potentially receptive to induction of trans-differentiation.

Prior

1F31DC010955-01 Layman (PI)

NIH-NSRA

Role of CHD7 in neural development and maintenance

6/1/10–5/31/13 (\$32,356 total costs)

The long term goal of this project is to determine the role of CHD7 in neural tissues to help improve diagnosis and treatment of olfactory and endocrine defects.

Role: Co-Investigator and Genetics Principal Investigator.

Co-investigator (PI: Lord)

Simons Simplex Family Collection Project

Sponsor: Simons Foundation

7/1/07 – 3/31/11 (\$162,000 total costs)

The goals of this multi-center initiative are to collect DNA samples from families with one child affected by an autism spectrum disorder. My effort in the project is to assist with phenotypic characterization and genetic analyses.

Early Steps Study

National Institutes of Mental Health (NIMH)

University of Michigan/University of California-Davis

PI: Catherine Lord, PhD

8/1/08-8/31/2010 (\$21,667)

“Microarray Capture and Rapid Sequencing to Identify the Genetic Cause of Martin-Probst Syndrome, an X-linked Disorder Affecting Hearing, Cognition, Craniofacial Development, Somatic Growth, and Aging”

The University of Michigan Center for Genetics in Health and Medicine

Endowment for the Basic Sciences

PI: Martin

2/1/2009-7/31/2010 (\$40,000)

Feinberg Foundation Visiting Faculty Program

December 2009-January 2010

PI: Martin

Host: Orly Reiner, Weizmann Institute, Rehovot, Israel

This award covered travel and expenses for a 6 week visiting professorship at the Weizmann Institute in Rehovot, Israel

Clinical Translational Science Award (CTSA)

The University of Michigan

Microarray Capture and Rapid Sequencing to Find Genetic Causes of Autism.

PI: Martin

October 31, 08-November 1, 2009 (\$35,000)

Amendt-Heller Pediatric Research Award

Mechanisms of chromodomain protein function in mammalian olfaction

The University of Michigan

PI: Martin

January 1, 2008-December 31, 2008 (\$20,000)

Principal Investigator, The National Organization for Hearing Research Foundation
Analysis of Hearing and Ear Anomalies in *Chd7* Mutant Mice

Awarded 1/27/06 (\$20,000)

This grant provided supplies and technical support for studying the role of *Chd7*, a chromodomain gene, in development and function of the mouse inner ear.

Principal Investigator, Pitx2 Function in Developing Mouse Brain Neurons

Biomedical Research Council Research Award

The University of Michigan (\$20,000)

August 1, 2006-Dec. 31, 2006

Principal Investigator, Pitx2 Function in Developing Mouse Brain Neurons

Office of the Vice President for Research

The University of Michigan (\$10,000)

August 1, 2006-Dec. 31, 2006

Principal Investigator, KO8HD40288, The Role of *Pitx2* in the Mammalian Central Nervous System

National Institute of Child Health and Human Development

Partial salary support and supplies

July 1, 2001-June 30, 2006 (\$500,000)

Principal Investigator, The Janette Ferrantino Award

Analysis of *Pitx2*-dependent neuronal differentiation in mature neurons and embryonic stem cells

Department of Pediatrics, The University of Michigan Medical School

July 1, 2003 (\$30,000)

Faculty Sponsor, Rackham Interdisciplinary Workshop

Experimental Approaches to Understanding Vertebrate Neurogenesis

Rackham School of Graduate Studies, The University of Michigan

October 30, 2003-June 14, 2008 (\$6,000 annually)

Principal Investigator

Child Health Research Center,

The Role of *Pitx2* in the Mammalian Central Nervous System

National Institute of Child Health and Human Development

Concurrent support for supplies

Sept 1, 2001-August 1, 2004 (\$90,000)

Honors and Awards

- | | |
|-----------|---|
| 1983 | Valedictorian, Wayland High School, Wayland Michigan |
| 1983 | Board of Control Scholar, Michigan Technological University |
| 1984 | Phi Eta Kappa, Michigan Technological University |
| 1987 | Magna cum Laude, Michigan Technological University |
| 1987 | Fellowship for Summer Research, Universität Saarbrücken, Deutscher Akademischer Austausch Dienst (DAAD) |
| 1987–1988 | Fellowship for Study abroad, Universität Stuttgart, DAAD |

- 1989 University of Michigan Rackham Graduate School Fellowship to attend Learning and Memory, Cold Spring Harbor Laboratory, New York (Eric Kandel and John Byrne, course organizers)
- 1990 NIH National Research Service Award (Neuroscience Program)
- 1991–1992 NIH National Research Service Award (Neurology Department)
- 1999 Scholarship to attend the 13th Annual International Mouse Genome Conference annual meeting, Philadelphia, Pennsylvania
- 2003 Janette Ferrantino Award, Department of Pediatrics, The University of Michigan
- 2004 Top Resident Teacher Award, Department of Pediatrics, University of Michigan
- 2007 The University of Michigan Hartwell Foundation nominee
- 2007 The University of Michigan John Merck Scholar nominee
- 2007 Best Doctors in America (*Detroit Hour* Magazine)
- 2011 Elected Member, The American Society for Clinical Investigation (ASCI)
- 2010 Top Resident Teacher Award, Department of Pediatrics, University of Michigan

Grant Support/Honors Received for Trainees

- 2001 University of Michigan Undergraduate Research Opportunity Program Summer Biomedical Research Award (Steven T. Philips)
- 2003 Parkinson’s Disease Foundation Summer Research Program (Steven T. Philips)
- 2002 University of Michigan Undergraduate Research Opportunity Program Summer Biomedical Research Award (Hemanth Ramaprakash)
- 2006 Summer Research Opportunity Program, The University of Michigan (Patrice Capers, Spelman College)
- 2006 Research Award, Annual Biomedical Research Conference for Minority Students (ABRCMS) in Anaheim, California (Patrice Capers, Spelman College)
- 2007 University of Michigan Undergraduate Research Opportunity Program Summer Biomedical Research Award (Katherine Cheng)
- 2007 Summer Research Opportunity Program, The University of Michigan (Erin Mortgart, Mount Union College, Alliance, Ohio)
- 2008 Graduate Student Award, 19th Annual Pediatric Research Symposium (Kaia Skaggs)
- 2008 Research Staff Award, 19th Annual Pediatric Research Symposium (Liz Hurd)
- 2009 Research Staff Award, 20th Annual Pediatric Research Symposium (Jennifer Skidmore)
- 2009-2010 Hearing, Balance, and Chemical Senses Training Grant, Wanda Layman (4th year Human Genetics student)
- 2010-2013 Individual NRSA award, “Role of CHD7 in neural development and maintenance”, Wanda Layman (NICHD)
- 2010-2011 Regents Fellowship for Cell and Molecular Biology, Mindy Waite (4th year CMB grad student)
- 2010 Graduate Student Award, 21st Annual Pediatric Research Symposium (Jillian Lee Wiggins, 4th year Developmental Psychology Student)
- 2011-2012 Rackham Predoctoral Fellowship, Mindy Waite (5th year CMB grad student)

2011-2012 Hearing, Balance, and Chemical Senses T32 Training Grant, Joe Micucci
3rd year Biochemistry student)

Memberships and Offices in Professional Societies

1988-- Member, Society for Neuroscience (SFN)
1999-- Fellow, American Academy of Pediatrics (AAP)
1999-- Member, American Society for Human Genetics (ASHG)
1999-- Member, Association for Research in Otolaryngology (ARO)
2003 Member, American Society for Gene Therapy (ASGT)
2003--2005 Member, American Society for Cell Biology (ASCB)
2003-- Member, American Medical Association (AMA)
2003-- Fellow, American College of Medical Genetics (ACMG)
2005-2008 Member, International Mammalian Genome Society (IMGS)
2007 Member, The Endocrine Society
2008-- Member, The International Society for Developmental Neuroscience (ISDN)
2009-- Member, International Society for Autism Research (INSAR)
2011 Elected Member, The American Society for Clinical Investigation (ASCI)
2011 Member, The Association of Professors of Human and Medical Genetics

Editorial Positions, Boards, and Peer-Review Service

Editorial Positions

Review Editor, Editorial Board of *Frontiers in Craniofacial Biology*

Peer Reviewer:

American Journal of Human Genetics
American Journal of Medical Genetics
American Journal of Pathology
Autism Research
BMC Medical Genetics
Developmental Dynamics
Developmental Psychology
Endocrine Reviews
Experimental Neurology
FASEB Journal
Genesis
Hearing Research
Human Molecular Genetics
Indian Journal of Medical Research
International Journal of Medical Sciences
Investigative Ophthalmology & Visual Sciences
Journal of Cellular Cytogenetics
Journal of Clinical Investigation
Journal of Medical Genetics
Journal of Neuroscience
Molecular and Cellular Biology

Molecular Biology and Evolution
Molecular Endocrinology
Molecular Genetics and Metabolism
Mammalian Genome
Neurobiology of Disease
Neuroscience
PLoS Genetics

Study Sections/Grant Review Committees

1999	National Science Foundation
2004	Neurodegenerative Disorders, State of Pennsylvania Department of Health Merit Review
2005	<i>Ad hoc member</i> , Developmental Brain Disorders study section (DBD), National Institutes of Health, March 3-4, 2005
2006, 07	Proposals in Neuroscience, State of Pennsylvania Department of Health Performance Review, Oak Ridge Associated Universities, Oak Ridge Tennessee
2007-2010	Office of the Vice President for Research (OVPR) bridging funds reviewer
2007	<i>Ad hoc member</i> , Neurogenesis and Cell Fate Study Section (NCF), National Institutes of Health, June 14-15, 2007
2007	<i>Ad hoc member</i> , Brain Disorders and Clinical Neuroscience (BDCN) Member Conflict Special Emphasis Panel, National Institutes of Health, July 9, 2007
2008	<i>Ad hoc member</i> , Special Emphasis Panel/Scientific Review Group 2008/05 ZRG1 MDCN-J (02), National Institutes of Health, April 3, 2008
2008	Scientific Review Board, International Rett Syndrome Foundation
2008	Oak Ridge Associate Universities, Pennsylvania Department of Health, Collaborative Projects
2009	<i>Ad hoc member</i> , Neural Development, Plasticity and Repair Study Section (NDPR), National Institutes of Health, San Fransisco, Feb. 12-13, 2009
2009-2012	Scientific Review Board, International Rett Syndrome Foundation (3-year term)
2009	UM NIEHS P30 Core Center Pilot Project Program reviewer
2009	Medical Research Council Career Development Award reviewer
2009	<i>Ad hoc member</i> , Developmental Brain Disorders (DBD) NIH study section, June 8-9, 2009
2009	<i>Ad hoc member</i> , NIH BDCN-T Challenge Grant Panel 11
2009-2015	Permanent member, Developmental Brain Disorders (DBD) NIH study Section
2010	<i>Ad hoc member</i> , ZRG1 F09-E (20) L Oncological Sciences NIH study Section
2011	<i>Ad hoc grant reviewer</i> , Israel Science Foundation
2011	<i>Ad hoc grant reviewer</i> , Medical Research Council, Great Britain
2011	<i>Ad hoc grant reviewer</i> , Wellcome Trust, Great Britain
2011	<i>Ad hoc grant reviewer</i> , Italian Telethon Foundation

Teaching

Training Programs

7/01-- Faculty Member, The University of Michigan Graduate Program in Neuroscience

- 7/01-- Faculty Member, The University of Michigan Medical Genetics Residency Training Program
- 9/03-- Faculty Member, Michigan Comprehensive Cancer Center
- 9/03-- Faculty Member, Medical Scientist Training Program
- 3/04-- Full Faculty Member, The University of Michigan Center for Organogenesis
- 6/05-- Faculty Member, The University of Michigan Hearing, Balance, and Chemical Senses Training Program
- 2005-- Medical Scientist Training Program: MSTP Career Advisory Panel
- 2008-- Faculty Member, The University of Michigan Predoctoral Cell and Developmental Biology Training Program
- 2008-- Faculty Member, The University of Michigan Predoctoral Genetics Training Program

Didactic Activities

- Oct 1995 Diabetes Short Course for Second-Year Medical Students, The University of Michigan Medical School, 4 one-hour lectures/small group sessions
- Oct 2000 “Neurocristopathies”, invited lecturer, 90 minute lecture/discussion, Organogenesis Seminar Series for graduate students on The Neural Crest
- May 2001 “Syndromes that Affect the Craniofacial Complex”, invited lecturer for 90 minute Dental Biology Course to Dental residents
- Aug 2003-06 “Patients and Populations” Medical Genetics Component, Small Group Discussion Leader for M1 Medical Students (meets annually)
- Fall 2004 Faculty Leader for NS700 seminar series (12-week course for teaching seminar presentations for Neuroscience graduate students) on “Transcriptional Regulation of Forebrain Development”
- Nov 2004 “Transcription Factor Regulation of Hypothalamic Neuroendocrine Secretory Cells” 30 minute lecture/60 min discussion for CDB 680-682 Organogenesis of Complex Tissues and Organs
- Dec. 2004 “Hyperammonemia”, 90 min lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Feb. 2005 “Metabolic Acidosis” 90 min lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Jan. 2006 “Hyperammonemia”, 90 min lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Feb. 2006 “Metabolic Acidosis” 90 min. lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Feb. 2006 “Genes and Development”, 60 min lecture/discussion for M1 students, The University of Michigan Medical School (co-lecture with Dr. Vinod Misra).
- Fall 2006 Co-Instructor of Neuronal Development Module for NS610/613, a first-year graduate course in Neuroscience. This included:
 “Regional Specialization in the Developing Nervous System”, 60 minute lecture
 “Developmental Brain Disorders”, 90 minute lecture
 Two 120-minute paper discussion sessions for graduate students
 Assistance with preparation and grading of exams for 18 enrolled students.
- Dec. 2006 “Hyperammonemia”, 90 min lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics

- Feb. 2007 “Metabolic Acidosis” 90 min. lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Fall 2007 Co-Instructor of Neuronal Development Module for NS610/613, a first-year graduate course in Neuroscience. This included:
“Developmental Brain Disorders”, 90 minute lecture
Two 120-minute paper discussion sessions for graduate students
- Dec. 2007 “Metabolic Acidosis”, 90 min lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Feb. 2008 “Hyperammonemia” 90 min. lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Aug 2008-11 “Patients and Populations” Medical Genetics Component, Small Group Discussion Leader for M1 Medical Students (meets annually)
- 9/08-4/09 Co-instructor for HG821/822, Human Genetics graduate student seminar course
- 9/08-4/09 Reviewer for CMB850, graduate student seminar course
- 9/15/08 “Mouse Models for Human CHARGE syndrome”, 60 minute chalk talk for HG632, Genetic Strategies in Biomedical Research
- 10/3/08 “Hyperammonemia” 60 min. lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- Fall 2008 Co-Instructor of Neuronal Development Module for NS610/613, a first-year graduate course in Neuroscience. This includes:
“Developmental Brain Disorders”, a 90 minute lecture, and two 120-minute paper discussion sessions for graduate students
- Feb. 2009 “Developmental Brain Disorders”, a 60 minute lecture for HG649 Advanced Clinical Concepts in Medical Genetics
- July 2009 “Introduction to Metabolic Disease”, a 60 minute lecture for Pediatric Residents
- Oct 2009 “Metabolic Acidosis” 60 min. lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics
- 11/2009 Co-Instructor of Neuronal Development Module for NS610/613, a first-year graduate course in Neuroscience. This includes:
“Developmental Brain Disorders”, a 90 minute lecture, and one 90-minute paper discussion session for graduate students
- 9/09-4/11 Co-instructor for HG821/822, Human Genetics graduate student seminar course
- 2/10-3/11 “Developmental Brain Disorders” 60 min. lecture/discussion for HG649 Advanced Clinical Concepts in Medical Genetics, given once per year
- 9/09-current “Introduction to Medical Genetics”, 60 minute lecture for 3rd year Medical Students, given 2-3 times per year.

Clinical Teaching

- 9/04-7/05 Clinical educator in Medical Education: teaching first and second year medical students history and physical exam skills (40 half-days per academic year)
- July 1999-- Supervising medical students, residents, and fellows in the Pediatric Genetics clinics and inpatient service.

Seminars

- Aug. 1999 “Beckwith-Wiedemann Syndrome”, 30 min. presentation, Medical Genetics Grand Rounds

Aug. 1999 “Breast Cancer”, 20 min. presentation, Medical Genetics Grand Rounds
 Oct. 1999 “Cystic Fibrosis”, 20 min. presentation, Medical Genetics Grand Rounds
 Dec. 1999 “Craniosynostosis”, 20 min. presentation, Medical Genetics Grand Rounds
 Dec. 1999 “Stickler syndrome”, 20 min. presentation, Medical Genetics Grand Rounds
 Oct 1999 “*Pitx2* in the Developing Brain”, 20 minute presentation, Human Genetics Retreat
 May, 2000 “SCAD vs SCHAD”, 20 min. presentation, Medical Genetics Grand Rounds
 Sept. 2000 “The Genetic Basis of Laterality”, 60 min. presentation, Medical Genetics Grand Rounds
 Sept. 2000 “Trisomy 5q31”, 30 min. presentation, Medical Genetics Grand Rounds
 Sept 2000 “Contiguous Gene Deletion Syndromes”, 30 minute presentation, Cytogenetics Weekly Conference
 Oct 2000 “The Role of *Pitx2* in Brain Development”, 20 minute presentation, Dept of Pediatrics Annual Research Symposium
 Apr 2001 “Evaluation of Organic Acidemias”, 60 min. presentation, invited lecturer, Neurogenetics Journal Club
 June 2001 “Nonketotic Hyperglycinemia”, 20 min. presentation, Medical Genetics Grand Rounds
 July 2001 “Pompe Disease”, 20 min. presentation, Medical Genetics Grand Rounds
 July 2001 “Introduction to Metabolic Disease”, 60 min. presentation to Pediatric Residents
 Sept. 2001 “Metabolic Disease”, 60 min. presentation, 14th Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
 May, 2002 “Contiguous Gene Deletion Syndromes”, 60 min. presentation to Pediatric Residents
 May, 2002 “Carnitine Palmitoyl Transferase Deficiency”, 20 min. presentation, Medical Genetics Grand Rounds
 June, 2002 “Craniosynostosis syndromes”, 20 min. presentation, Medical Genetics Grand Rounds
 June 2002 “Mapping an X-Linked Mental Retardation Syndrome”, 60 min. presentation, Pediatric Grand Rounds, The University of Michigan.
 July, 2002 “Crash Course in Metabolic Diseases”, 60 min. presentation, Pediatric Residents
 Sept. 2002 “Prenatal Diagnosis”, 60 min. presentation, Pediatric Residents
 Sept. 2002 “Metabolic Disease”, 60 min. presentation, 15th Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
 Dec. 2002 “Carnitine Palmitoyl Transferase Deficiency Type II”, 20 min. presentation, Medical Genetics Grand Rounds
 Jan. 2003 “Cockayne Syndrome”, 20 min. presentation, Medical Genetics Grand Rounds
 May, 2003 “Metabolic Diseases”, 30 min. presentation, Pediatric ICU staff
 Aug. 2003 “Crash Course in Metabolic Diseases”, 60 min. presentation, Pediatric Residents
 Sept. 2003 “GM2 Gangliosidosis”, 20 min. presentation, Medical Genetics Grand Rounds
 Sept. 2003 “Metabolic Disease”, 60 min. presentation, 16th Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
 March 2004 “X-linked Deafness”, 30 min. presentation, Medical Genetics Grand Rounds
 April 2004 “Sotos Syndrome”, 30 min. presentation, Medical Genetics Grand Rounds
 March 2004 “Overgrowth Syndromes” 60 min. lecture to Pediatric House Officers
 March 2004 “A Revealing Case of X-Inactivation”, 30 min. presentation, Medical Genetics Grand Rounds

- Sept. 2004 “Metabolic Disease”, 60 min. presentation, 17th Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
- Sept. 2004 “Subthalamic Nucleus Genetics in Development and Disease”, 60 min. presentation, hosted by the Neuroscience Program, The University of Michigan.
- Sept. 2004 “Crash Course in Metabolic Diseases”, 60 min. presentation, Pediatric Residents
- Dec. 2004 “A Fragile Case of Autism”, 30 min. presentation, Medical Genetics Grand Rounds
- Feb. 2005 “*Ciona* Species for Studying Pitx2 Gene Function”, 60 min. presentation, Organogenesis Journal Club
- June, 2005 “Duplication 15q11q13 and schizophrenia”, 30 min. presentation, Medical Genetics Joint Conference
- July, 2005 “Crash course in metabolic diseases”, 60 min. presentation to Residents, Mott Children’s Hospital
- Dec. 2005 “Using Mice to Dissect Multiple Anomaly Conditions”, 20 min. presentation, Program in Biomedical Sciences
- Jan. 2006 “*CHD7* in CHARGE”, 60 min. presentation, Hearing and Biochemical Senses Seminar
- Jan. 2006 “Molecular Genetics of *CHD7* in Mutant Mice”, 60 min. presentation, Research in Progress Seminar, Department of Human Genetics
- June, 2006 “Beckwith Wiedemann Syndrome”, 60 min. lecture to Pediatric Residents, The University of Michigan Mott Children’s Hospital
- June, 2006 “Aicardi Syndrome”, 30 min. presentation, Medical Genetics Grand Rounds
- Oct 2006 “Crash course in metabolic diseases”, 60 min. presentation to Residents, Mott Children’s Hospital
- Jan. 2007 “Fatty Acid Oxidation Disorders, Lysosomal Storage Disorders, and Peroxisomal Diseases”, 60 min. presentation to Residents, Mott Children’s Hospital
- March 2007 “CHARGE syndrome”, 60 min. presentation, Medical Genetics Grand Rounds
- July 2008 “Crash course in metabolic diseases”, 60 min. presentation to Residents, Mott Children’s Hospital
- Sept. 2008 “Metabolic Disease”, 60 min. presentation, 21st Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
- July 2009 “Crash course in metabolic diseases”, 60 min. presentation to Residents, Mott Children’s Hospital
- Sept. 2009 “Metabolic Disease”, 60 min. presentation, 21st Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
- Aug. 2010 “Management of Urea Cycle Disorders”, 60 min. presentation to UM Pediatric ICU faculty and staff. Host: Dr. Kato Han.
- April 2011 “Two cases of neurodevelopmental disorders”, 30 min. presentation at Medical Genetics/Center for Genetics in Health & Medicine monthly conference

Mouse Club Presentations

- Jan 2003 Exploring *Pitx2* Function in the Developing Mouse Brain
- May 2004 *Pitx2* Function in Developing Neurons
- April 2005 Analysis of *Pitx2* Isoforms in the Developing CNS (Christopher Chou)
- March 2006 Analyzing *Chd7* in Mutant Mice

March 2007 Inner Ear Defects in *Chd7* Mutant Mice (Elizabeth A. Hurd)
January 2009 Midbrain Developmental Mechanisms, 30 min presentation
Nov 2010 *Pitx2* function in developing midbrain GABAergic neurons (Mindy Waite)

Neurogenesis Group Presentations

Feb 2003 The Role of *Pitx2* in Subthalamic Nucleus Development (Jennifer Skidmore)
Feb. 2004 *Pitx2* is required for STN and midbrain Neuronal Development
October 2004 *Pitx2* Function in Developing Neurons
October 2005 Mapping *Pitx2* Fates in Neuronal Development (Jennifer Skidmore)
March 2007 *Pitx2* Neuronal Fates in the Developing Hypothalamus and Midbrain
October 2007 Roles for CHD7 in Inner Ear Development (Liz Hurd)

Weekly Clinical Genetics Only Journal Club (My presentations listed below)

*journal club organizer from Dec. 2005-Nov. 2010

Jan. 2006 3-C syndrome, 20 min. presentation
June 2006 Beckwith Wiedemann Syndrome, 20 min. presentation
July 2006 *NOTCH2* in Alagille Syndrome, 20 min. presentation
Sept 2006 H19 hypomethylation in Silver Russell syndrome, 30 min presentation
April 2007 Autism and copy number variation, 20 min presentation
Aug. 2007 Jacobsen Syndrome, 20 min presentation
Jan. 2008 *POLG* mutations, 20 min presentation
March 2008 *BMP4* mutations in humans, 20 min presentation
Oct 2008 p63 mutations in human malformation syndromes; 20 min presentation
Jan 2009 CNTNAP2 mutations in autism; 20 min presentation
June 2009 TUBB2B mutations in polymicrogyria
Nov 2009 Massively parallel sequencing and Freeman-Sheldon mutations
July 2010 Skeletal dysplasias
Dec 2010 Whole exome sequencing in mental retardation
April 2011 Clinical genetics of autism and cognitive impairment

Life Sciences Institute Stem Cell Club Presentations

May 2009 Roles for the Chromodomain Protein CHD7 in Olfaction and Neural Stem Cell Proliferation (Wanda Layman)
Feb 2010 CHD7 function in Inner Ear Neurogenesis (Liz Hurd)
Sept. 2010 *CHD7* mutations and Hypogonadotropic Hypogonadism (Wanda Layman)

Inpatient Biochemical Genetics, consult service, and ward attending (2-4 week periods)

July, 2001, October, 2001, March, 2002, August, 2002, December, 2002
April 1-15, 2003, May 16-31, 2003 August, 2003, November, 2003, February, 2004,
July, 2004, Sept, 2004, Dec, 2004, March, 2005, May, 2005, July, 2005, Oct. 2005, Dec. 2005,
Feb. 2006, May 2006, July 2006, August 2006, October 2006, November 2006, Jan. 2007, March
2007, May 2007, July 2007, October 2007, Jan. 2008, March 2008, May 2008, Aug. 2008, Oct.
2008, Feb. 2009, April 2009, June 2009, Sept 2009, Nov. 2009, Feb 2010, March 2010, May
2010, July 2010, Sept. 2010, Oct. 2010, Dec 2010, Feb. 2011, April 2011, July 2011.

Ped Genetics Weekly Post-Clinic Teaching Conference

1 hr/week, residents, medical students, Genetic Counseling Students on Ped. Genetics rotation

Faculty Supervising Advisor, Medical Genetics Residency Program:

2001-2003 Stephanie Wechsler, M.D.
2001-2003 Sara Copeland, M.D.
2002-2003 Vinod K. Misra, M.D., Ph.D.
2005-2007 Tiffanee Lenzi, MD
2007-2009 Ryan Longman, MD
2007-2010 Jirair Bedoyan, MD, PhD
2011-2013 Shane Quinonez, MD

Postdoctoral Fellows Supervised:

1990-91 Caryn Vogel, Resident trainee; Current: Neurologist in Indianapolis
2000-03 Frank J. Probst, PhD, MD, Postdoctoral trainee; Current: Lecturer at Baylor College of Medicine
2006–curr Elizabeth Hurd, PhD, Postdoctoral Research Fellow; Current: Research Associate
2008-2010 Jirair Bedoyan, MD, PhD, Medical Genetics Resident
2008-2010 Meredith Adams, MD, Fellow in Otolaryngology
2010-- Jirair Bedoyan, MD, PhD, Clinical Lecturer
2010 Martin P. Kracklauer, PhD, Postdoctoral Research Fellow

Undergraduate Students Supervised/current position:

1990-1992 Mihir Meghani, Freshman/Sophomore U of M Inteflex Program/Emergency Room physician, California
2000-2001 Sharon Fox, Freshman/Sophomore Summer research, Princeton University/Medical Student, Harvard University
2001 Joey Chang, Undergraduate Student, LS & A Freshman, UROP
2001--2002 Leni Morrison, Undergraduate Student LS & A Freshman, UROP
2000--2004 Anthony M. Sclafani, Honors Undergraduate Student, LS & A Freshman, UROP/Graduate Student in Biomedical Sciences, Yale University
2002--2004 Steven T. Philips, Honors Undergraduate Student LS & A Junior, SROP/MSTP student, The University of Michigan
2002--2003 Hemanth Ramaprakash, Undergraduate Student, College of Engineering Sophomore, UROP, SROP/PIBS student, The University of Michigan
2003-2004 Jamie Segel, Undergraduate Student LS & A Freshman, UROP
2003-2004 Robyn Vince, Undergraduate Student LS & A Freshman, UROP
2004-2008 John Cramer, Undergraduate Student LS & A Freshman, UROP, Honors program/Medical Student, Case Western University
2006 Patrice Capers, Undergraduate Student, SROP (Spelman College)
2006-08 Katherine Cheng, Undergraduate Student, LS & A Freshman
2006 Amrita Kaur, Undergraduate Student LS & A Freshman, UROP
2006 Karen Kao, Undergraduate Student LS & A Freshman, UROP
2007 Erin Mortgart, Undergraduate Student, SROP (Mount Union College)/Graduate student, University of Kentucky
2007 Renada Scott, Undergraduate Student, SROP (Alcorn State College)
2007-08 Ryan Hodges, Undergraduate Student, LS & A Freshman, UROP/MRC

- 2008-09 Arden Grace Trickey-Glassman, LS & A Sophomore, UROP/MRC
 2008-10 Amanda Berry, LS & A Freshman, UROP
 2008-- Elyse Reamer, LS & A Freshman, Honors Program in Biology
 2008-11 Parisa Kaviany, LS & A Sophomore, Honors Program in Neuroscience

Medical Students supervised:

- 2009 Julie Kaplan, Summer Biomedical Research Program, University of Michigan

Graduate Students Supervised:

- 2005 Christopher Chou, MSTP student, The University of Michigan
 2007-2011 Wanda Layman, PIBS PhD student, The University of Michigan
 2007 Nicole Evans, PIBS PhD student, The University of Michigan
 2007-2010 Kaia Skaggs, Neuroscience PhD student, The University of Michigan (co-mentor with Ben Novitch, UCLA)
 2008 Allison Billi, rotating MSTP student, The University of Michigan
 2008 Michael Mashiba, rotating MSTP student, The University of Michigan
 2008-- Mindy Waite, Cell and Molecular Biology student, The University of Michigan
 2010- Joshua Stowell, rotating Neuroscience student, The University of Michigan
 2010- Joe Micucci, Biochemistry student, The University of Michigan
 2010 Lindsey Cregan, rotating PIBS student, The University of Michigan
 2011 Emily Maclary, rotating PIBS student, The University of Michigan

Thesis Committee membership:

- 2005-07 Kwan-Ho Chung, Neuroscience PhD student (thesis advisor: David Turner)
 2005-2007 Chris Hart, Neuroscience PhD student (thesis advisor: David Turner)
 2007-2011 Wanda Layman, PIBS PhD student, The University of Michigan (committee chair)
 2007-2010 Kaia Skaggs, Neuroscience PhD student, The University of Michigan (co-mentor with Ben Novitch, UCLA)
 2008-- Mindy Waite, Cell and Molecular Biology student, The University of Michigan (committee chair)
 2008- Chris Chou, Human Genetics PhD student (thesis advisor: Tom Glaser)
 2008- Lev Prasov, Human Genetics PhD student (thesis advisor: Tom Glaser)
 2008-- Jillian Lee, Developmental Psychology PhD student (thesis advisor: Chris Monk)
 2010- Valerie Schaibley, Human Genetics PhD student (thesis advisor: Jun Li)
 2010- Randi Burns, CMB PhD student (thesis advisor: Margit Burmeister)
 2010- Joe Micucci, Biochemistry student, The University of Michigan (committee chair)
 2011- Danny Yang, Human Genetics PhD student (thesis advisor: John Kim)

Committee, Organizational, and Volunteer Service

Institutional

University of Michigan Medical School

- 2004 Stem Cell Faculty Search Committee, Department of Cell and Developmental Biology
 2005 Medical Scientist Training Program Career Advisory Panel

2011-2014 Biomedical Research Council

Neuroscience Graduate Program

2003, 05, 06, 08, 09 Preliminary Exam Committee member
2005 Curriculum Evaluation Committee

Hearing, Balance, and Chemical Senses Training Program

2006--2010 Admissions Committee

Department of Human Genetics

2004-2006 James Neel Genetic Counseling Student Fellowship Award Committee,
2005 Faculty Selection Committee representing the Health Sciences Division, Rackham
Predoctoral Graduate Student Award
2005-2011 Steering Committee and Permanent Member, Center for Genetics in Health and
Medicine
2005, 08, 09 Preliminary Exam Committee member
2006 Program in Biomedical Sciences Graduate Student Admissions Committee,
2006 Preliminary Exam Committee chair
2007 Chair, Admissions Committee for Program in Biomedical Sciences Graduate
Student Admissions
2007-08 Human Genetics Seminar Series Organizing Committee
2009-10 Cardiovascular Genetics Faculty Search Committee member, Dept of HG
2009-11 Faculty Search Committee
2011- Diane Baker Alumnae Lectureship Committee, Depart. of Human Genetics

Department of Pediatrics

2001 Participant in Proposals for funding for the Department of Pediatrics, the
University of Michigan Health System Office of Medical Development and
Alumni Relations
2002 Participant in Proposal to the Elizabeth E. Kennedy Fund, the University of
Michigan Health System Office of Medical Development and Alumni Relations
2003 Resident Research Committee, Department of Pediatrics
2005-6 Pediatric Biochemical Genetics Recruitment Committee
2005-6 Pediatric Molecular Genetics Recruitment Committee
2006-09 Research Advisory Committee, Department of Pediatrics (elected position)
2007-- Program Committee for NIH-T32 Training Grant "Cell and Molecular Biology
Training Program in Pediatrics".
2005-2010 Organizer, weekly Clinical Genetics Only Journal Club for Pediatric Genetics
2003-- Organizer, monthly Medical Genetics Grand Rounds for Pediatric Genetics
2001-2007 Organizer, 18-lecture series on Genetics topics for Pediatrics Residents
2007 Faculty organizer for Recruiting Pediatrics Residents Research Experience
2008 Chair Advisory Committee for Selection of Endowed Chair Positions
2009 Director, 19th Annual Pediatric Research Symposium, November 9-10, 2009
2010 Director, 20th Annual Pediatric Research Symposium, October, 2010
2011 Executive Committee Recruitment Officer, Child Health Research Center

Cell and Molecular Biology Training Program

- 2009-10 Co-chair, Retreat Planning Committee
2010-2013 Executive Committee faculty member, Human Genetics representative
2012 Prelim committee for Mie Kasanuki, PhD student (thesis advisor: Phil Gage)
2011-2014 Member, Program Committee

National

- 1999-- Member, Professional Advisory Board of the CHARGE Syndrome Foundation
2006-- Board Member, Michigan Association for the DeafBlind (DB Central)
2010 Abstract Reviewer, annual meeting of The American Society for Human Genetics

Volunteer Service

- 1999 Judge, Southeastern Michigan Science Fair
2005-2006 Volunteer Assistant, Girl Scout Troop #1539
Spring, 2005 Coach, Science Olympiad Map Reading, Logan Elementary School
Feb. 2006 Invited speaker for Annual Day, Greenhills High School, 45 min. lecture/discussion on "Raising Children with Special Needs".

Consulting Positions

- March, 2006 Invited Member of the Advisory Board for the Simons Foundation Autism Research Fund (Host: Catherine E. Lord)

Visiting Professorships, Seminars, and Extramural Invited Presentations

Professorships

- Dec, 2009- Feinberg Foundation Visiting Faculty Program
Jan 2010 Host: Orly Reiner, Weizmann Institute, Rehovot, Israel
This award covered travel and expenses for a 6 week visiting professorship at the Weizmann Institute in Rehovot, Israel

Seminars and Extramural Invited Presentations

- June 1999 Alexander Graham Bell conference on hearing impairments; "Hearing Loss: The Parent and Physician Perspective", The University of Michigan Medical Center.
June, 2000 The 101st Annual Meeting of The Japanese Society for Otolaryngology, Tokyo Japan; "Genetic Approaches to Hereditary Deafness".
Jan. 2002 "Analysis of *Pitx2* Function in the Developing Mouse Diencephalon and Mesencephalon", Seminario de Año Nuevo, University of Murcia, Murcia, Spain. Host: Luis Puelles.
Feb. 2002 "Functional Analysis of *Pitx2* in Developing Neurons", 60 min. presentation, Cell and Developmental Biology Seminar, The University of Michigan.
Oct. 2002 "Adverse Developmental Effects of Alcohol", 21st Annual Michigan Statewide Conference on Child Abuse and Neglect, Ypsilanti, Michigan, sponsored by The University of Michigan Medical School.
Feb. 2003 "X-Linked Mental Retardation", Pediatric Grand Rounds, William Beaumont Hospital, Royal Oak, Michigan (Host: David Aughton).
March, 2003 "PITX2 is required for subthalamic nucleus development". *The Great Lakes Mammalian Development Meeting*, Toronto, March 14-16, 2003.

- May 2004 Annual meeting of the Society for Pediatric Research, San Francisco, “Non-hematopoietic Stem Cells”, session chair.
- Dec. 2004 “The Role of *Pitx2* in Central Nervous System Neuronal Differentiation”, Centre de Regulació Genòmica, Barcelona Spain. Host: Xavier Estivill
- March 2005 “*Pitx2*-mediated disruption of mammalian neuronal development”, The Weizmann Institute of Science, Rehovot, Israel. Host: Orly Reiner
- July 2005 “*Pitx2* function in developing CNS neurons”, Department of Pediatrics, The University of Iowa, Iowa City. Host: Val Sheffield.
- Sept. 2005 “Introduction to Metabolic Diseases”, 17th Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
- Jan. 2006 “Genetics of Autism”, Center for Autism and Communication Disorders, The University of Michigan. Host: Catherine Lord
- March 2006 “Fate mapping *Pitx2* lineage neurons in the developing mouse brain”, New York University Medical Center, The Skirball Institute. Host: Alex Joyner
- Sept. 2006 “Introduction to Metabolic Diseases”, 18th Annual Pediatric Board Review Course, sponsored by The University of Michigan Medical School.
- Oct. 2006 “Loss of PITX2 disrupts migration and differentiation in distinct populations of neurons in the developing mouse midbrain and hypothalamus” *Annual Meeting of the Society for Neuroscience*, Atlanta, Georgia, October 14-18, 2006.
- Feb, 2007 “Roles for CHD7 in CHARGE-related organ development”, Nephrology Basic Science Seminar. Host: Ben Margolis
- Oct. 2007 Moderator, Platform Session “Animal Models”, 57th *Annual Meeting of the American Society for Human Genetics*, San Diego, California, October 23-27, 2007.
- Jan. 2008 "Mechanisms of Chromodomain Protein Function in Mammalian Inner Ear Development", University of Illinois-Champaign, Urbana. Host: Lori T. Raetzmann
- Jan. 2008 "Pleiotropic roles for the Chromodomain protein CHD7 in human and mouse development". Cell and Developmental Biology Seminar, The University of Michigan. Host: Deneen Wellik
- Feb. 2008 Moderator, Platform Session “Development”, 31st *Annual MidWinter Meeting of the Association for Research in Otolaryngology*, Phoenix, Arizona, February 16-21, 2008.
- May, 2008 “Mouse Models of Human CHARGE Syndrome”, Pediatric Endocrinology Seminar, The University of Michigan. Host: Vasantha Padmanabhan.
- June, 2008 Roles for Chromodomains Proteins in Cellular Differentiation, Proliferation, and Survival”, Pediatric Hematology/Oncology Seminar, The University of Michigan. Host: Larry Boxer.
- Sept. 2008 “*Pitx2* Function in Mammalian Development”, Review of the field, oral presentation and Thesis Opponent for Johan Holmberg, Lund University, Sweden.
- Sept. 2008 “Roles for *Pitx2* in Mammalian Neuronal Migration and Cell Fate”, Seminar at Lund University, Sweden. Host: Tord Hjalt
- July 7, 2009 “Roles for the transcription factor PITX2 in mammalian neuronal migration and connectivity. Seminario de Alicante, Alicante, Spain. Host: Salvador Martinez.
- Sept. 2009 “Chromodomain protein 7 functions in inner ear development”. NIDCD

- Host: Doris Wu.
- Oct. 2009 Invited Scientific Session Organizer, “CHARGE Syndrome and CHD7: Linking Chromatin Biology and Development with Variable Human Phenotypes”, 59th Annual meeting of The American Society of Human Genetics, Honolulu, Hawaii, October 20-24, 2009.
- Oct. 2009 Invited speaker, “Use of mouse models in exploring CHD7 functions.” Oral presentation (20 min) at the 59th Annual meeting of The American Society of Human Genetics, Honolulu, Hawaii, October 20-24, 2009
- Nov, 2009 Invited speaker, “Introduction to Genetics in Developmental Brain Disorders”, University of Michigan Center for Autism and Communication Disorders. Host: Catherine Lord
- Jan. 2010 *Pitx2* is Required for Neuronal Migration in Distinct Regions of the Developing Mouse Brain”. The Weizmann institute, Rehovot, Israel. Host: Orly Reiner.
- Jan. 2010 “Chromodomain protein 7 functions in inner ear development”. The Weizmann Institute, Rehovot, Israel. Host: Avraham Yaron.
- June 2010 “CHARGE Syndrome: from Bedside to Bench“. Emory University, Atlanta, Georgia. Host: David Ledbetter.
- June 2010 “Chromodomain Proteins in Development and Disease: Lessons from CHD7“. Emory University, Atlanta, Georgia. Host: David Ledbetter.
- Nov. 2010 Moderator, Platform Session, Craniofacial and Skeletal Disorders, *60th Annual Meeting of the Society for Human Genetics*.
- March 2011 “Mechanisms of chromodomain protein-mediated neurogenesis“. Neurology Research Conference, The University of Michigan. Host: Jack Parent.
- March 2011 “Genetics of Autism“. Joint OB-Gyn/Pediatrics Grand Rounds, St. Joseph Mercy Hospital, Ypsilanti, Michigan. Host: Robert Stager.
- March 2011 “Genetics of Autism“. Center for Human Growth and Development, The University of Michigan. Host: Chris Monk.
- April 2011 “Genetics of Autism“. Developmental/Behavioral Pediatrics conference, The University of Michigan. Host: Betsy Lozoff.
- May 2011 “Chromodomain Proteins in Development and Disease“. Invited seminar for the Department of Human Genetics, Cincinnati Children’s Hospital. Host: Gregory Grabowski.
- June 2011 ”Recent Advances in Understanding the Genetics of Autism”. Pediatrics Grand rounds, Michigan State University, Kellogg Center for Medical Studies. Host: Allan Lareau
- July 2011 “Advances in the Use of Mouse Models of CHARGE Syndrome”. Professional Day, 10th Biennial meeting of the CHARGE Syndrome Foundation, Orlando, Florida, July 28, 2011.
- July 2011 “Advances in Mouse Models of CHARGE Syndrome”, Family Day, 10th Biennial meeting of the CHARGE Syndrome Foundation, Orlando, Florida, July 29, 2011.

Radio, Internet, and Newspaper interviews

Dec 9, 2009 Interviewed by Lucy Ann Lance for WLBY 1290 am for evaluation of an article on the role of genetics in autism and obesity (Bochukova et al., *Nature* 2009; 20 min live show; podcast available at www.lucyannlance.com).

April 21, 2011 “Ask the Doctor” Podcast, interview “What is autism?” and “Is it treatable.” (<http://www.askthepodcastdoctor.org/>)

May, 2011 <http://www.uofmhealth.org/news/multimedia+gallery+news#/1270248827419>

Bibliography

Original Publications in Peer-Reviewed Journals

1. **Martin DM**, Yee D, Feldman EL. Gene expression of the insulin-like growth factors and their receptors in cultured human retinal pigment epithelial cells. *Mol. Brain Res.* 12:181–186, 1992.
2. **Martin DM**, Yee D, Carlson RO, Feldman EL. Gene expression of the insulin-like growth factors and their receptors in human neuroblastoma cell lines. *Mol. Brain Res.* 15:241–246, 1992.
3. **Martin DM**, Carlson RO, Feldman EL. Interferon- γ inhibits DNA synthesis and insulin-like growth factor–II expression in human neuroblastoma cells. *J. Neurosci. Res.* 34:489–501, 1993.
4. **Martin DM** and Feldman EL. Regulation of insulin-like growth factor–II expression and its role in autocrine growth of human neuroblastoma cells. *J. Cell. Physiol.* 155:290–300, 1993.
5. Carlson RO, **Martin DM**, Feldman EL, Agranoff BW. PKC activity and PKC– α mRNA content are reduced in serum-deprived human neuroblastoma cells without concomitant induction of differentiation. *Exp. Cell Res.*, 207:340–347, 1993.
6. **Martin DM** and Feldman EL. Reversibility of serum removal effects on IGF–II mRNA in human neuroblastoma cells. *Ann. N Y Acad. Sci.* 692:259–261, 1993.
7. Meghani, MA, **Martin, DM**, Singleton, JR, Feldman, EL. Effects of serum and insulin-like growth factors on human neuroblastoma cell growth. *Reg. Peptides*, 48:217–224, 1993.
8. **Martin, DM**, Singleton, JR, Meghani, MA, Feldman, EL. IGF receptor function and regulation in autocrine human neuroblastoma cell growth. *Reg. Peptides*, 48:225–232, 1993.
9. Anderson DW, Probst FJ, Belyantseva IA, Fridell RA, Beyer L, **Martin DM**, Wu D, Kachar B, Friedman TB, Raphael Y, Camper SA. The motor and tail regions of myosin XV are critical for development and function of the auditory and vestibular systems. *Human Molecular Genetics* 9:1729–1738, 2000.
10. **Martin, DM**, Probst FJ, Camper, SA and Petty, EM. Characterization and Genetic Mapping of a New X-Linked Deafness-Mental Retardation Syndrome, *Journal of Medical Genetics* 37: 836–841, 2000.

11. **Martin, DM**, Sheldon, S, and Gorski, JL. CHARGE Association in a Child with an Apparently Balanced *de novo* Chromosomal Translocation t(2;7)(p14;q21.11), *American Journal of Medical Genetics* 99(2):115-9, 2001.
12. **Martin, DM**, Gencyuz, CF, and Petty, EM. Systemic Lupus Erythematosus in a Man with Noonan Syndrome: A Brief Case Report and Literature Review. *American Journal of Medical Genetics* 102: 59-62, 2001.
13. **Martin, DM** and Gorski, JL. Ocular Malformations, Postaxial Polydactyly and Delayed Intramembranous Ossification: a New Autosomal Dominant Condition. *Journal of Medical Genetics* 38:547-55, 2001.
14. **Martin, DM**, Probst, FJ, Fox, SE, Schimmenti, LA, Semina, E, Belmont, JW, Camper, SA. Exclusion of *PITX2* Mutations as a Major Cause of CHARGE Association. *American Journal of Medical Genetics* 111:27-30, 2002.
15. Brown, DF, Kim, TB, Petty, EM, Downs, CA, **Martin, DM**, Strouse, PJ, Moroi, SE, Milunsky, JM, Lesperance, MM. Autosomal dominant stapes ankylosis, broad thumbs, hyperopia and skeletal anomalies caused by heterozygous nonsense and frameshift mutations in the *noggin* gene (*NOG*) *American Journal of Human Genetics* 71:618-624, 2002. PMC 379196.
16. **Martin, DM**, Skidmore, JM, Fox, SE, Gage, PJ, Camper, SA. *Pitx2* Distinguishes Subtypes of Terminally Differentiated Neurons in the Developing Mouse Neuroepithelium. *Developmental Biology* 252(1): 84-99, 2002.
17. **Martin, DM**, Mindell, MH, Kwierant, CA, Glover, TW and Gorski, JL. Interrupted Aortic Arch in a Child with Trisomy 5q31.1q35.1 Due to a Maternal (20;5) Balanced Insertion. *American Journal of Medical Genetics* 116A:268-271, 2003.
18. Keegan, CE, **Martin, DM**, Quint, DJ, Gorski, JL. Acute extrapyramidal syndrome in ornithine transcarbamylase deficiency: metabolic stroke involving the caudate and putamen. *European Journal of Pediatrics* 162: 259–263, 2003.
19. Brown DJ, Kim TB, Petty EM, Downs CA, **Martin DM**, Strouse PJ, Moroi SE, Gebarski SS, Lesperance MM. Characterization of a Stapes Ankylosis Family with a *NOG* Mutation. *Otology and Neurotology* 24(2):210-5, 2003.
20. **Martin, DM** and Raphael, Y. Gene-Based Diagnostic and Treatment Methods for Tinnitus. *Tinnitus* 9(1):3-10, 2003.
21. Treutelaar, MK, Skidmore, JM, Dias-Leme, CL, Hara, M, Zhang, L, Simeone, D, **Martin, DM**, Burant, CF, Nestin-lineage cells contribute to the microvasculature but not endocrine cells of the islet. *Diabetes* 52(10):2503-2512 (2003).
22. Karolyi, IJ, Probst, FJ, Beyer, L, Odeh, H, Dootz, G, Cha, KB, **Martin, DM**, Avraham, KB, Kohrman, D, Dolan, DF, Raphael, Y, Camper, SA. *Myo15* gene function is distinct from *Myo6*,

- Myo7a*, and *pirouette* genes in development of cochlear stereocilia. *Human Molecular Genetics* 12(21):2797-805 (2003).
23. **Martin, DM**, Skidmore, JM, Philips, ST, Vieira, C, Gage, PJ, Condie, BG, Raphael, Y, Martinez, S, Camper, SA. PITX2 is required for normal development of neurons in the mouse subthalamic nucleus and midbrain. *Developmental Biology* 267 (1):93-108 (2004).
 24. Lalani, SR, Safiullah, A, Molinari, LM, Fernbach, SD, **Martin, DM**, Belmont, JW. *SEMA3E* mutation in a patient with CHARGE Syndrome. *Journal of Medical Genetics* 41, 41(7):E94 (2004).
 25. FJ Probst, P Hedera, AM Sclafani, MG Pomponi, G Neri, J Tyson, JA Douglas, EM Petty, **DM Martin**. Skewed X-inactivation in Carriers Refines Genetic Mapping of a Novel X-linked Deafness Mental Retardation Syndrome. *American Journal of Medical Genetics* 131A: 209-212 (2004).
 26. Kojic, J, Robertson, PL, Quint, DJ, **Martin, DM**, Pang, Y, Sundgren, PC. High Brain Glutamine by MR Spectroscopy in a Urea Cycle Disorder with Coma. *Pediatric Neurology* 32(2):143-6 (2005).
 27. Philips, ST, Albin, RA, **Martin, DM**. Genetics of Subthalamic Nucleus in Development and Disease. *Experimental Neurology* 192:320– 330 (2005).
 28. Vadlamudi, U, Espinoza, HM, Ganga, M, **Martin, DM**, Liu, X, Engelhardt, JF, Amendt, BA. PITX2, β -catenin and LEF-1 interact to synergistically regulate the *LEF-1* promoter. *Journal of Cell Science* Mar 15;118(Pt 6):1129-37 (2005).
 29. Espinoza, HM, Ganga, M, Vadlamudi, U, **Martin, DM**, Brooks, BP, Semina, EV, Murray, JC, Amendt, BA. Protein C phosphorylation modulates N- and C-terminal regulatory activities of the PITX2 homeodomain protein. *Biochemistry* 2005 Mar 15;44(10):3942-3954 (2005).
 30. Raphael Y and **Martin, DM**. “Deafness: Lack of regulation encourages hair cell growth”. *Gene Therapy* Mar 31; Jul;12(13):1021-2 (2005).
 31. Sclafani, AM, Skidmore, JM, Ramaprakash, H, Trumpp, A, Gage, PJ, **Martin, DM**. Nestin-Cre mediated deletion of *Pitx2* in the mouse. *Genesis*, 44:336-344 (2006).
 32. Hurd, EA, Capers, PL, Blauwkamp, MN, Adams, ME, Raphael, Y, Poucher, HK, **Martin, DM**. Loss of *Chd7* function in gene trapped reporter mice is embryonic lethal and associated with severe defects in multiple developing tissues. *Mammalian Genome*, Feb;18(2):94-104 (with Cover figure) (2007).
 33. Hurd, EA and **Martin, DM**. The 20th International Mammalian Genome Conference Meeting Report. *Mammalian Genome*. Mar;18(3):145-53. Epub 2007 Apr 10 (2007).

34. Adams, ME, Hurd, EA, Beyer, LA, Swiderski, DL, Raphael, Y, and **Martin, DM**. Defects in vestibular sensory epithelia and innervation in mice with loss of *Chd7* function: implications for human CHARGE syndrome. *Journal of Comparative Neurology* 504:519-532 (2007).
35. Vue, TY, Aaker, J, Taniguchi, A, Kazemzadeh, C, Skidmore, JM, **Martin, DM**, Martin, JF, Treier, M, Nakagawa, Y. Characterization of progenitor domains in the developing mouse thalamus. *Journal of Comparative Neurology* Nov 505(1):73-91 (2007).
36. Skidmore, JM, Cramer, JD, Martin, JF, and **Martin, DM**. *Cre* fate mapping reveals lineage specific defects in neuronal migration with loss of *Pitx2* function in the developing mouse hypothalamus and subthalamic nucleus. *Molecular and Cellular Neurosciences* 37: 696-707 (2008). PMC 2386145.
37. Ou, Z, **Martin, DM**, Cooper, ML, Chinault, AC, Stankiewicz, P, Cheung, SW. “Branchiootorenal Syndrome and Oculovertrebral Spectrum Features with Duplication of SIX1, SIX6, and OTX2 Resulting from a Complex chromosomal Rearrangement. *American Journal of Medical Genetics* Oct 1;146A(19):2480-9 (2008). PMC requested.
38. D.R. Jensen, **D.M. Martin**, S. Gebarski, T. Sahoo, E. Brundage, C.A. Chinault, E. Otto, M. Chaki, F. Hildebrandt, S.W. Cheung, and M. Lesperance. A Novel Chromosome 19p13.12 Deletion in a Child with Multiple Congenital Anomalies. *American Journal of Medical Genetics Am J Med Genet Part A* 149A:396–402 (2009). PMC 2872113.
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41. Zentner, GE, Layman, WS, **Martin, DM**, Scacheri, P. Molecular and phenotypic aspects of *CHD7* mutation in CHARGE syndrome. *American Journal of Medical Genetics*. Mar;152A(3):674-86 (2010). PMC 2918278.
42. Bedoyan, JK, Kumar, RA, Sudi, J, Silverstein, F, Ackley, T, Iyer, RK, Christian, SL, **Martin, DM**. Duplication at 16p11.2 in a Child with Infantile Seizure Disorder. *American Journal of Medical Genetics A*. Jun;152A(6):1567-74 (2010). PMC 3160635.
43. Layman, WS, Hurd, EA, **Martin, DM**. Chromodomain Proteins in Development: Lessons from CHARGE Syndrome. *Clinical Genetics* Jul;78(1):11-20 (2010) PMC 3079949.

44. **Martin, DM.** Chromatin remodeling in development and disease: focus on CHD7. *PLoS Genetics* Jul 15;6(7):e1001010 (2010). PMC 2904764.
45. Hurd, EA, Poucher, HK, Cheng, K, Raphael, Y, **Martin, DM.** The ATP-dependent chromatin remodeling enzyme CHD7 regulates proneural gene expression and neurogenesis in the inner ear. *Development* 137(18):3139-3150 (2010).
46. Zentner, GE, Hurd, EA, Schnetz, MP, Wang, Z, Tesar, PJ, **Martin, DM,** Scacheri, P CHD7 functions in the nucleolus as a positive regulator of ribosomal RNA biogenesis, *Human Molecular Genetics* Vol.19, No.18:3491-3504 (2010).
47. Viren C. Patel, Kajari Mondal, Amol Carl Shetty, Vanessa L. Horner, Jirair Bedoyan, **Donna M Martin,** Tamara Caspary, David J. Cutler and Michael E. Zwick, Microarray Oligonucleotide Probe Designer (MOPeD). *Open Access Bioinformatics* Vol. 2010:2 Pages 145 – 155 (2010). PMC 3048354.
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Manuscripts in preparation

1. Waite, MR, Skidmore, JS, Chou, C, Puelles, LR, **Martin, DM**. PITX2 isoforms contribute differentially to proper neuronal positioning and projections in the developing brain.

Non Peer-Reviewed Publications

1. Cushman, LJ, Camper, SA, **Martin, DM**, Baker, DL, "About Pituitary Tumors: Information for Patients and Families." Published by the Pituitary Disorders, Education & Support group, T. Sullivan, Founding Director, Brighton, MI, with support from an educational grant from Pharmacia & Upjohn (1999).

Book Chapters

1. Camper, S, Suh, H, Raetzman, L, Douglas, K, Cushman, L, Nasonkin, I, Burrows, H, and **Martin, D**, "Pituitary Gland Development". In: *Mouse Development*. Academic Press, eds J. Rossant and P. Tam, pp. 499-518.
2. **Martin, DM** and Camper, SA, "Genetic Regulation of Forebrain and Pituitary Development". In: *Hypothalamic-Pituitary Development; Genetic and Clinical Aspects*. Endocr Dev. Basel, Karger, eds. R. Rappaport and S. Amselem, 2001 vol 4, pp1-12.
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4. Dosage Sensitive Effects of *Pitx2* Deficiency in CNS Development, **Martin DM**, Skidmore JM, Philips ST, Camper SA, *13th Annual Pediatric Research Symposium*, The University of Michigan, Friday October 18, 2002.
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12. **Martin, DM**, Gage, PJ, and Camper, SA, “*Pitx2* Deficiency Disrupts Brain Development in the Mouse”, *The Great Lakes Mammalian Development Meeting*, Toronto, April 7-9, 2000.

13. Innis, JW, Schuette JL, **Martin, DM**, Clinical overlap between Trichorhinophalangeal and Floating Harbor Syndromes, *Meeting of the American Society of Human Genetics*, Philadelphia, Pennsylvania, October 3-7, 2000.
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24. Skidmore, JM and **Martin, DM**. PITX2 and LMX1B interactions in the developing mammalian subthalamic nucleus. *54th Annual Meeting of the American Society of Human Genetics*, Toronto, Canada, October 26-30, 2004.
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27. JM Skidmore and **DM Martin**. PITX2 and LMX1B Interactions in the Developing Mammalian Subthalamic Nucleus. *The University of Michigan 15th Annual Pediatric Research Symposium*, 2004.
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30. Skidmore, JM and **Martin, DM**. Generation and Characterization of Transgenic Mice Expressing Calretinin-Specific Enhanced Green Fluorescent Protein and Cre Recombinase. *The University of Michigan 16th Annual Pediatric Research Symposium*, Ann Arbor Michigan, November 7-8, 2005.
31. K. L. Hunker, L. Beyer, M. Burmeister, **D. M. Martin**, Y. Raphael, and DC Kohrman. Characterization of two mouse strains with inherited inner ear dysfunction. *29th Annual Midwinter Meeting of the Association for Research in Otolaryngology*, Baltimore, Maryland, February 5-9, 2006.
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