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## Education & Training

### ***Higher Education:***

<u><i>Date Conferred</i></u>	<u><i>Field of Study</i></u>	<u><i>Degree</i></u>	<u><i>Institution and Location</i></u>
May 1981	Biology	B.S.	Yale University, New Haven, CT Distinction, Magna Cum Laude
May 1990	Medicine	M.D.	Yale University, School of Medicine, New Haven, CT
May 1990	Cell Biology	Ph.D.	Yale University, School of Medicine, New Haven, CT Thesis: "Genetic Reconstitution of Acetylcholine Receptor" Advisor: Toni Claudio, Ph.D.

### ***Postgraduate Medical Education:***

July 1990–June 1991	Intern, Robert Wood Johnson Hospital, New Brunswick, NJ
July 1991–June 1994	Resident, Univ. of Pennsylvania Medical School, Philadelphia, PA
July 1994–June 1997	Postdoctoral Fellow, Movement Disorders and Neurogenetics, Univ. of Pennsylvania Medical Center & Graduate Hospital, Philadelphia, PA

## Certification & Licensure

1990	American Board of Medical Examiners
1991	State of Pennsylvania
1996	American Board of Psychiatry and Neurology (Recertification obtained August 2006, ID No. 143711, Certificate No. 42894)
1997-2007	State of Iowa (License No. 32013)
1997-2007	State of Iowa Controlled Substance DEA
2006-present	US Dept. of Justice Controlled Substance DEA
2007-present	State of Michigan (Lic. No. 4301091125; CS-3 Lic. No. 315033576)

**University of Michigan Program for Education & Evaluation in Responsible Research & Scholarship (PEERRS), certified through 01/07/2014:**

Animal Subjects  
Authorship, Publication and Peer Review  
Conflict of Interest  
Foundations of Good Research Practice  
Human Subjects – Biomedical & Health Sciences  
Human Subjects – Social & Behavioral Sciences  
Research Administration

**Academic, Administrative, & Clinical Appointments**

**Professional & Academic Positions:**

1996-1997 Clinical Instructor, Department of Neurology, University of Pennsylvania, Medical Center, Philadelphia, PA  
1997-2003 Assistant Professor, Department of Neurology, University of Iowa, Carver College of Medicine, Iowa City, IA  
1998-2007 Co-Director, Huntington's Disease, University of Iowa, Center of Excellence, Carver College of Medicine, Iowa City, IA  
2003-2006 Associate Professor, Department of Neurology, University of Iowa, Carver College of Medicine, Iowa City, IA  
2006-2007 Professor, Department of Neurology, University of Iowa, Carver College of Medicine, Iowa City, IA  
July 2007 Adjunct Professor of Neurology, Department of Neurology, University of Iowa, Carver College of Medicine, Iowa City, IA  
Aug 2007-p Lucile Groff Professor, Department of Neurology, University of Michigan, Ann Arbor, MI  
2008-2011 Associate Director (2008-2011) Michigan Alzheimer's Disease Research Center  
2007-p Director, Neurodegenerative Disease Research Programs, Dept. of Neurology  
2010-p Director, University of Michigan Initiative on Neurodegenerative Diseases (UMind)  
2011-p Director (2008-2011) Michigan Alzheimer's Disease Center

**Clinical Expertise:**

Alzheimer Disease and related dementias  
Movement & Cognitive Disorders  
Ataxias  
Neurogenetics  
Huntington Disease

**Clinical Activities:**

**(Performed in an instructional setting with residents and students)**

University of Iowa:

1997-1998 Movement Disorders and Neurogenetics Clinic, weekly

	Continuance of Outpatient Care (COC) Clinic, monthly Daytime Neurology Consult, 2-3 times monthly
1998-1999	Movement Disorders and Neurogenetics Clinic, weekly Continuance of Outpatient Care (COC) Clinic, monthly Daytime Neurology Consult, 2-3 times monthly
1999-2000	Movement Disorders and Neurogenetics Clinic, weekly Continuance of Outpatient Care (COC) Clinic, monthly Daytime Neurology Consult, 2-3 times monthly
2000-2001	Movement Disorders and Neurogenetics Clinic, weekly Huntington Disease Center of Excellence Clinic, monthly Daytime Neurology Consult, 2-3 times monthly
2001-2002	Movement Disorders and Neurogenetics Clinic, weekly Huntington Disease Center of Excellence Clinic, monthly Daytime Neurology Consult, 2-3 times monthly
2002-2003	Movement Disorders and Neurogenetics Clinic, weekly Huntington Disease Center of Excellence Clinic, monthly Daytime Neurology Consult, 1-2 times monthly
2003-2004	Movement Disorders and Neurogenetics Clinic, weekly Huntington Disease Center of Excellence Clinic, monthly
2004-2005	Movement Disorders and Neurogenetics Clinic, weekly Huntington Disease Center of Excellence Clinic, monthly
2005-2006	Movement Disorders and Neurogenetics Clinic, weekly Huntington Disease Center of Excellence Clinic, monthly Daytime Neurology Consult, monthly
2007 Spring	Movement Disorders and Neurogenetics Clinic, weekly Huntington Disease Center of Excellence Clinic, monthly Daytime Neurology Consult, monthly Inpatient Consult Attending, 9 days

#### University of Michigan:

2007- 2008	Movement & Cognitive Disorders, East Ann Arbor Health & Geriatrics Center, U-M Health System, weekly
2008-p	Cognitive Disorders Clinic, East Ann Arbor Health & Geriatrics Center, U-M Health System, weekly
2008-p	Ataxia Clinic, Taubman Center, U-M Health System (UMHS), ~ monthly
05/09	Attending Neurologist, Inpatient Service (2 wks), UMHS, MI
04/10	Attending Neurologist, Consult Service (2 wks), UMHS, MI
01/11	Attending Neurologist, Inpatient Service (2 wks), UMHS, MI
08/11	Attending Neurologist, Inpatient/Consult Service (2 wks), UMHS, MI

### Research Interests

- Molecular basis of neurodegenerative diseases, particularly polyglutamine disorders & Alzheimer disease

- Role of protein quality control in aging and neurodegeneration
- Role of ubiquitin pathways in neurodegenerative diseases
- Therapeutic development for SCA3, SCA6 and other polyglutamine diseases
- RNAi-based therapy for neurodegenerative disorders, including Alzheimer's disease and polyglutamine disorders

### **Current Projects:**

- Molecular basis of polyglutamine diseases
- Functional analysis of the SCA3/Machado-Joseph disease protein, ataxin-3
- Mechanisms/functions of ubiquitin ligases and deubiquitinating enzymes in the CNS and neurodegeneration
- Silencing neurodegenerative disease gene expression by nucleotide-based strategies (AD, SCA3/MJD, SCA6)
- Cell-based drug screens for therapeutic agents in SCA3
- Generation and characterization of knock-in mouse model of SCA3
- Regulation of amyloid precursor protein (APP) processing in AD pathogenesis
- Natural History Study of dominantly inherited ataxias (multi-center Clinical Research Consortium)

### **Completed Projects:**

- Site Investigator, PREDICT-HD trial (Iowa)
- Site Investigator, HD-PHAROS trial (Iowa)
- Site Investigator, TREND-HD (eicosapentanoic acid) trial (Iowa)
- Site Investigator, COHORT-HD (Iowa)
- Assessment of X11alpha role in APP processing (Michigan)

## **Grants**

### **Present & Active:**

02/15/1999-01/31/2015	NIH, 2 RO1 NS 038712-12 "Mechanisms of Polyglutamine Neurodegeneration." PI Henry L. Paulson, Role PI \$2,637,017
09/15/2009-07/31/2014	NIH, RO1 AG034228, <i>Integrating quality control: Studies of CHIP in age-related neurodegeneration</i> , Role: PI, \$1,545,664
03/01/2010-02/28/2012	NIH, NINDS, R21 NS067111, <i>RNAi as therapy for spinocerebellar ataxia type 3</i> , Role: PI, \$225,755
08/01/2011-07/31/2012	NIH/NINDS 1 R03NS072967-01-A1, Development of a knock-in mouse model for Spinocerebellar Ataxia Type 3, Role: PI, \$155,500
09/01/2009-08/31/2012	Ataxia MJD Research, Inc., <i>Testing and optimizing viral-mediated RNAi strategies for SCA3</i> , Role: Co-PI, \$52,000
07/01/2007-06/30/2012	NIH, 2 T32 NS007222-26, <i>Training in clinical and basic neuroscience</i> , (PI Feldman), Role: Mentor, \$1,278,113
07/01/2011-06/30/2013	NIH/ NINDS, 1 R21 NS072229-01A1, <i>Splice isoform-specific RNAi as therapy for spinocerebellar ataxia type 6</i> , (PI Rodriguez), Role: Co-PI, \$415,250
05/15/2010-04/30/2015	NIH/NINDS 1K08NS069809-01, Clinical Scientist Development Award, "Pathogenic mechanisms in Fragile X Tremor Ataxia Syndrome," (PI Todd), Role: Mentor, \$866,700

04/15/2010-04/14/2012 Dystonia Medical Research Foundation, "Understanding the Role of the Cerebellum in Dystonia." (PI Shakkottai), Role: Co-I, \$127,450

09/01/2010-08/31/2015 NIH, NINDS, 1-K08-NS-072158-01, "Targeting physiologic changes as a route towards therapy for degenerative ataxias," (PI Shakkottai). Role: Mentor, \$848,340

09/30/2011-09/29/2012 NIH, NINDS, 1-R13-NS-077698-01, AIM 2012 Conference, Role: PI, \$20,000

1/1/2012-12/31/2012 National Ataxia Foundation Pioneer Award, "Novel cell-based screens for therapeutic compounds in SCA3", Role: PI, \$70,000

**Summary of Major Previous Grants:**

1994-1998 Research Fellowship Award in Neuropharmacology, American Academy of Neurology, Role: PI, \$120,000

1998-2000 Roy J. Carver Charitable Trust research grant, Role: PI, \$245,315

1999-2003 Ellison Medical Foundation New Scholars Award, Role: PI, \$200,000

1999-2000 Ataxia MJD Research Grant, Role: PI, \$50,000

1999-2000 Merck/American Federation of Aging Research Scholarship in Geriatric Pharmacology to graduate student Jeff Bishop, Role: Mentor

2001 Ataxia MJD Research Grant, Role: PI, \$107,000

2001-2007 NIH, RO1 NS640068, "PREDICT-HD: neurobiological predictors of Huntington disease," 09/01/01-08/31/07, (PI Paulsen), Role: Site Investigator

2001-2002 National Ataxia Foundation, Role: PI, \$30,000

2001 Semi-finalist, Keck Foundation Young Scholars in Med. Research Program, Role: PI, \$10,000

2001 Therapeutics Initiative Grant, Huntington Disease Society of America, Role: PI, \$50,000

2001 Predoctoral NRSA to neuroscience graduate student, Sarah Berke, Role: Mentor

2001-2004 Minority grant supplement for undergraduate researcher, Francisco Flores-Schmied (supplement to 1 RO1 NS 38712)

2002-2004 Postdoctoral fellowship to Pedro Gonzalez-Alegre, Dystonia Research Foundation, Role: Mentor, \$50,000/yr for two years

2002-2004 Howard Hughes Medical Institute Collaborative Pilot Grant, "Ubiquitin binding by polyglutamine disease protein, ataxin-3: implications for normal biology and disease pathogenesis," Role: Co-PI with Robert Cohen, \$50,000

2002-2007 NIH RO1, "Developing Gene Therapy for Dominant Neurodegenerative Diseases," RO1; HD44093-01; (PI Davidson), Role: Co-Investigator, \$1,000,000

2003-2006 CURE-HD Initiative of the Hereditary Disease Foundation, RNA interference for Huntington disease" Co-PI with Beverly Davidson

2003-2006 Beeson Physician Faculty Scholarship, "RNA interference as novel therapy for age-related disease," Role: PI, \$450,000

2003-2007 Predoctoral NRSA, Rick Nelson, Neuroscience MSTP graduate student

2005-2007 T32 Training Initiative. "Course Development in Neurobiology of Disease at the University of Iowa," Role: PI, \$125,000

2006-2007 National Ataxia Foundation Postdoctoral Research Fellowship to Sokol Todi, PhD, Role: Mentor, \$44,974.00

2006-2007 National Ataxia Foundation Research Grant Award to Sue Travis, PhD, Role: Mentor, \$35,000

2004-2007 RO1 grant, NIH RO1 NS047535 "Analysis of Fbx2 family of ubiquitin ligases," Role: PI, \$1,366,246

2008 National Ataxia Foundation, "RNAi as therapy for spinocerebellar ataxia type 3 (SCA3)," Role: PI, \$63,460

2008 OVPR, Office of the Dean, Medical School; Dept. of Internal Med., "Small molecule mediated protein folding in rare diseases targets," (PI Sherman), Role: Collaborator, \$75,000

2004-2009 NIH, PO1, 1 PO1 NS050210, *RNAi for dominant neurological disease*, Associate Director (Director: Beverly Davidson), \$7,688,193  
 Project 1: "RNAi for Huntington's Disease" (PI Davidson) Co-Investigator  
 Project 2: "RNAi for Alzheimer's Disease" (PI Paulson)  
 Core A: Administrative, Co-Director

07/01/2008-12/31/2009 Nathan Shock Center Aging Transgenic Rodent/Pathology Core, University of Michigan Institute of Gerontology, *Exploring the role of protein quality control enzymes in the aging mouse*, Role: PI, \$14,463

06/01/2009-12/31/2009 MADRC, *RNAi as therapeutic strategy & tool to biological discovery in Alzheimer disease*, Role: PI, \$25,000

03/01/2009-02/28/2010 Univ of Mich Initiative on Rare Disease Research, *Modulating protein quality control in polyglutamine diseases*, (PI Albin), Role: Co-investigator, \$100,000

06/01/2005-05/31/2010 NIH/NIA, P50-AG-08671, *Modulation of APP metabolism by X11 $\alpha$ /MINT-1*, (PI Gilman), Role: PI Project 1 (appointed 08/04/08), \$625,000

09/30/2009-06/30/2011 NIH K99/R00 Career Development Grant, 1K99NS064097 *Posttranslational modification of deubiquitinating enzymes in neurodegeneration*, (PI Todi), Role: Mentor, \$173,189

01/01/2010-12/31/2010 National Ataxia Foundation, *Understanding the role of altered physiology in the pathogenesis of SCA*, (PI Shakkottai), Role: Mentor, \$35,000

07/01/2011-06/30/2013 NIH, NINDS, R21, *Splice isoform-specific RNAi as therapy for Spinocerebellar Ataxia type 6*, (PI Rodriguez), Role: Co-I, \$275,000

06/01/2008-11/31/2011 Alzheimer's Association, IIRG-07-60067, *Drug-protein complexes as inhibitors of A $\beta$  aggregation*, Role: PI, \$240,000

2009-2011 NIMH, T32, *Research Training – Biological Sciences*, (PI Uhler), Role: Mentor, \$601,530

- 09/30/2009-09/29/2011 NIH, Trans-NIH Recovery Challenge Act, *Clinical research consortium for spinocerebellar ataxias*, (PI Ashizawa), Role: Site Investigator, \$68,856
- 12/01/2009-12/31/2011 Shire Human Genetic Therapy, *Testing efficacy of LNAs that target expression of the SCA3 disease gene*, Role: PI, \$188,243
- 01/01/2011-12/31/2011 National Ataxia Foundation, Developing an SCA3 therapeutic: small molecules that reduce levels of mutant ataxin-3, (PI Pereira da Costa), Role: Mentor, \$35,000

## Honors & Awards

- 1983-90 Medical Scientist Training Program Fellowship, NIH (Yale University)
- 1991 "Best Intern," Robert Wood Johnson Hospital, University of Medicine and Dentistry, New Brunswick, NJ
- 1993 Zeritsky Prize, awarded for outstanding research by a neurology resident at the University of Pennsylvania
- 1994 National Research Service Award Fellowship (declined due to other grants received)
- 1994 Research Fellowship Award, Hereditary Disease Foundation
- 1994-98 Research Fellowship Award, American Academy of Neurology (sole recipient nationally)
- 1994-97 Postdoctoral Research Fellowship, Howard Hughes Medical Institute
- 1999-03 New Scholars Award, Ellison Medical Foundation (one of ten awarded nationally)
- 2001-02 Semi-finalist, W.M. Keck Foundation Program (one of ten national semi-finalists)
- 2003-06 Paul Beeson Physician Faculty Scholar in Aging, American Federation for Aging Research
- 2004 Matthew Moore Distinguished Lectureship, American Association of Neuropathology Annual Meeting
- 2004 Elected, Membership in the American Neurological Association
- 2004 Elected, Fellow of the American Academy of Neurology
- 2004 Chairperson, RNAi workshop (Dystonia Med. Research Foundation) Boston, MA
- 2006 Co-chairperson, NIH session on Experimental Therapeutics titled, "Second NINDS-DMRF Workshop on Dystonia. Recent Advances and Future Directions"
- 2007 University of Michigan Neuroscience Scholar Award
- 2007 Co-chairperson, NINDS/NAF sponsored workshop titled, "Therapeutic Development for Inherited Spinocerebellar Ataxias"
- 2008-09 The Best Doctors in America® List, Best Doctors, Inc., [www.bestdoctors.com](http://www.bestdoctors.com)
- 2008-09 Co-Chairperson, NINDS Strategic Planning Advisory Panel (Disease Module)
- 2011-12 The Best Doctors in America List, Best Doctors, Inc., [www.bestdoctors.com](http://www.bestdoctors.com)

## Memberships in Professional Societies

- 1988-present American Association for the Advancement of Science
- 1991-present American Academy of Neurology (FAAN 2004)
- 1996-present Movement Disorder Society
- 1997-present American Society of Human Genetics
- 1998-2006 Central Society of Neurological Research

1998-2006	Coordinated Ataxia Group
1998-present	Society for Neuroscience
1998-present	National Ataxia Foundation
2004-present	American Society for Biochemistry and Molecular Biology
2004-present	American Neurological Association
2008-present	Alzheimer's Association International Society to Advance Alzheimer Research and Treatment (ISTAART)

## **Editorial Positions, Boards, & Peer-Review Service**

### ***Editorial Boards of Journals:***

2004-2009	Journal of Biological Chemistry
2006-present	Human Molecular Genetics
2010-present	Aging Cell

### ***Advisory Boards:***

1998-2002	Scientific Advisory Board, Coalition for the Cure, Huntington's Disease Society of America
2003-2006	Scientific Advisory Board, Dystonia Medical Research Foundation
2004-2007	Co-Chair, Grants & Fellowships Committee, Huntington's Disease Society of America
2006-present	Medical Research Advisory Board, National Ataxia Foundation
2007-present	Scientific Advisory Board, Bachmann-Strauss Dystonia and Parkinson's Disease Foundation
2007-present	NIH-NINDS Board of Scientific Counselors
2011-present	Scientific Advisory Board, Hereditary Disease Foundation
2011-2012	Chair, Board of Scientific Counselors, National Institute of Neurological Disorders and Stroke

### ***Ad Hoc Reviewer for Journals:***

2009-2010	Aging Cell
1998-1999	American Journal of Human Genetics
1998-99, 2000	American Journal of Pathology
1997, 98, 99, 08, 09	Annals of Neurology
1998-2003, 2009	Archives of Neurology
2003, '05, '11, '12	Brain
1998	Brain Research
1999-2000	Brain Research Bulletin
2003	Clinical Genetics
2003	Current Biology
2003, 2004	EMBO Journal
2007	EMBO Reports
2001	Epilepsia

1999-2000	Experimental Neurology
2002	Expert Opinion on Therapeutic Targets
2004	FEBS Letters
2005	Gene Therapy
2000	Genomics
2001	Human Genetics
1998-present	Human Molecular Genetics, (Editorial Board Member, 2005-present)
1999-present	Journal of Biological Chemistry, (Editorial Board member, 2004-2009)
1999, 2003-04, 2011	Journal of Cell Biology
2004	Journal of Cell Science
2003	Journal of Gene Medicine
2006	Journal of Neurochemistry
1999-2002	Journal of Neurological Sciences
2009, 2011	Journal of Neurology, Neurosurgery & Psychiatry
1998-2004, 2006-10	Journal of Neuroscience
2006	Molecular and Cellular Biology
2006, 2008	Molecular Therapy
2002, 2007-08, 2011	Movement Disorders
2001, 02, 05, 07-11	Nature
2006	Nature Biotechnology
2001, 04, 06-08	Nature Cell Biology
2006	Nature Clinical Practice Neurology
2000-01, 03, 05-07	Nature Genetics
2004-05, 2007-09	Nature Medicine
2004, 2009	Nature Reviews Neuroscience
2004	Nature Structural and Molecular Biology
2005-06, 2008-09	Neurobiology of Disease
1997-2000, 2007	Neurology
2010	Neuromolecular Medicine
2001, 2004-2011	Neuron
2008	Neuroscience Letters
2003	Physiological Genomics
2005	PLoS Genetics
2010	PLoS One
2005-08, 2010-11	Proceedings National Academy of Science
2003, 07, 09-10	Science
2006	Trends in Biochemical Sciences
2004	Trends in Molecular Medicine
2006	Trends in Neuroscience
2009	Trends in Genetics

**Grant Reviewer:**

1998–2002 Huntington's Disease Society of America, Coalition for the Cure (annual)  
1998–present National Ataxia Foundation Grant and Fellowship Review (annual)  
1998–1999 Italian Telethon  
2000–2007 Friedreich Ataxia Research Alliance  
2001, 2002 NIH, Study Section BDCN-3, Special Emphasis panel  
2002 NIH, Study Section NSD-B  
2002 Ad hoc reviewer, Institute of Gerontology, University of Michigan  
2003 NIH, NINDS Translational Research Special Emphasis panel  
2003-2006 Dystonia Medical Research Foundation (annual)  
2003 Hereditary Disease Foundation, Cure-HD Initiative, ad hoc reviewer  
2003 Ad hoc reviewer, Nathan Shock Center for Aging Research, Univ of Michigan  
2003, 2007 Bob Allison Ataxia Res. Center (Univ. Minnesota), Scientific Advisory Panel  
06/18/2003 NIH, Study Section BDCN-3 (CDIN)  
10/20/2003 Ad hoc reviewer, NIH, Study Section CDN  
12/02/03 Ad hoc reviewer, NIH, Molecular, Cellular & Developmental Neurosciences IRG, SEP  
Fall 2003 Children's Miracle Network, University of Iowa  
05/2004 Biosciences Initiative, University of Iowa  
05/2004 Ad hoc reviewer, Proposals for NINDS high throughput drug screening facility  
2004-2007 Study Section NSD-B, NIH, 3 meetings/year, permanent member  
2004 Medical Research Council, United Kingdom  
2004-2007 Co-Chair, Grants & Fellowships Committee, Huntington's Disease Society of America  
2004-2008 Member, NSD-B/NINDS CSR Study Section Committee  
03/30/2005 Ad hoc reviewer, Neurogenetics/Genomics SEP, Council ZRG MDCN-K 93  
03/2005 Ad hoc reviewer, Michael Smith Foundation for Health Research (Canada)  
02/28/2006 Ad hoc reviewer, Neurogenetics/Genomics SEP, Council ZRG MDCN-K 93  
03/2006 Ad hoc reviewer, Univ of Michigan Geriatrics Center Pilot Grants Program  
04/06; 09/06 Ad hoc reviewer, High Q Foundation  
05/2006 Ad hoc reviewer, Alzheimer's Research Trust (United Kingdom)  
11/2006 Ad hoc reviewer, Kennedy's Disease Association  
05/2007 Ad hoc reviewer, Telethon (Comitato Telethon Fondazione)  
2007 Chair, Grants & Fellowships Committee, Huntington's Disease Society of America  
2007-present Scientific Advisory Board member of Bachmann-Strauss Dystonia and Parkinson's Disease Foundation  
2007-present Member, NIH-NINDS Board of Scientific Counselors, (Peer-review of intramural program)  
2007 Ad hoc grant reviewer, Wessex Medical Research  
2007 Ad hoc grant reviewer, Wellcome Trust  
2008 Peer Reviewer, OVPR, Rare Disease Internal Grant Review

2008 Therapeutic Initiative Grant Review, Bachman-Strauss Dystonia and Parkinson's Disease Foundation

2008 Grant Reviewer, Global Centers of Excellence Program, Japan Society for the Promotion of Science, MEXT

2009 Special Emphasis Panel/Scientific Review Group 2009/10 ZNS 1 SRB-E (32) meeting, NIH/NINDS

2009 Ad hoc grant reviewer, National Institute on Aging

2009 Ad hoc reviewer, Internal Grants Program, Office of Research and Sponsored Programs, Univ of South Dakota

2009 Ad hoc grant reviewer, NIA, ZAG1, ZIG6

2009 Ad hoc reviewer, AAN, Movement Disorder Research Award Subcommittee

2010 Ad hoc reviewer, NIA, ZAG1 ZIJ-5 03 SEP

2010 Chair, Scientific Review Committee, Program Project, NIA

2010 Ad hoc reviewer, Genethon, AFM, French Association against Myopathies

2010 Ad hoc reviewer, Science Foundation Ireland, Postal Review, Investigator Programme Grant

2010 Chair, Scientific Review Committee, Program Project, NIA

2012 Reviewer, University of Michigan Environmental Health Science Core Center

***Faculty Promotion Review for Other Institutes:***

2000 University of Mississippi Medical Center (Neurology), Jackson MS

2000 Columbia University (Neurology), NYC NY

2003 University of Washington (Genetics), Seattle WA

2003 University of Washington (Pediatrics), Seattle WA

2004 University of Kentucky (Anatomy and Neurobiology), Lexington KY

2005 University of Chicago (Neurology), Chicago IL

2005 University of California (UCLA - Neurology), Los Angeles CA

2005 University of Minnesota, Minneapolis (Genetics) MN

2005 University of Chicago (Neurology), Chicago, IL

2005 University of Virginia (Neurology), Charlottesville, VA

2005 Massachusetts General Hospital/Harvard University (Neurology), Boston MA

2006 Columbia University (Neurology), NYC, NY

2007 University of Chicago (Genetics), Chicago, IL

2007 Emory University (Pediatrics), Atlanta, GA

2007 University of Michigan, Ann Arbor (Pathology) MI

2007 Massachusetts General Hospital/Harvard University (Neurology), Boston MA

2007 University of Minnesota, Minneapolis (Genetics) MN

2007 St. Louis University, (Neurology), St. Louis, MO

2007 LSU Health Sciences Center (Genetics), LS

2007 University of British Columbia (Neurology), Vancouver, BC Canada

2007 Columbia University (Neurology), New York, NY

2007 Oregon Health Science Center (Neurology), Portland, OR

2008 Johns Hopkins (Pharmacology), Baltimore, MD  
 2008 Emory University (Neurology), Atlanta, GA  
 2008 University of Chicago (Human Genetics), Chicago, IL  
 2008 University of Iowa (Neurology), Iowa City, IA  
 2008 UCLA (Neurology), Los Angeles, CA  
 2009 University of Iowa (Neurology), Iowa City, IA  
 2009 University of Pennsylvania (Pathology), Philadelphia, PA  
 2009 University of Pittsburgh (Neurology), Pittsburgh, PA  
 2010 Columbia University (Neurology), New York, NY  
 2010 University of Pennsylvania (Neurology), Philadelphia, PA  
 2010 University of Michigan (Pathology), Ann Arbor, MI  
 2010 University of Florida (Neurology), Gainesville, FL  
 2010 Northwestern University (Neurology), Evanston, IL  
 2011 University of California San Francisco (Biochemistry and Biophysics), San Francisco, CA  
 2011 Duke University (Neurology Division of Medicine), Durham, NC  
 2011 Rush University Medical Center (Dept. of Neurological Sciences), Chicago, IL  
 2011 University of South Florida College of Medicine (Dept. of Molecular Medicine), Tampa, FL  
 2011 University of Alberta (Dept. of Pharmacology), Edmonton, Alberta, Canada  
 2012 Johns Hopkins School of Medicine (Dept. of Neurology), Baltimore, MD

***Abstract Reviewer for National Meetings:***

1999, 2008-09 American Academy of Neurology (neurogenetics)  
 2000 American Society of Human Genetics (neurogenetics)  
 1999, 2004-10 American Academy of Neurology (neurogenetics and gene therapy)  
 2005-2006 American Neurological Association (Alzheimer's, basic science, neurogenetics)  
 2006-2008 Society for Neuroscience (neurodegenerative diseases)  
 2008-2010 Movement Disorders Society, International Congress  
 2008 Ataxia Investigator's Meeting

**Teaching**

***(Personal Statement on Teaching available upon request)***

***Teaching Assignments:***

University of Iowa

1998  
 Participant, Bi-monthly Movement Disorders Conference (20/year)  
 Medical Neuroscience, small group discussion leader (four sessions)  
 Neurology Physical Exam, group leader (two sessions)  
 Systems Neuroscience Course (one lecture)  
 Neurology Grand Rounds (two lectures)

1999

Bi-monthly Movement Disorders Conference (20/yr)  
Neurology Physical Exam, group leader (one session)  
Systems Neuroscience Course (one lecture)  
Medical Neuroscience, small group discussion leader (4 sessions)  
Neuroscience Lecture series, Co-Organizer of Neurology Department basic science lecture series

2000

Bi-monthly Movement Disorders Conference (20/yr)  
Neurology Physical Exam, group leader (one session)  
Medical Neuroscience, small group discussion leader (four sessions)  
Systems Neuroscience Course (two lectures)  
Functional Genomics Course (two lectures)  
Medical Care Seminar for Law Students (one lecture)

2001

Bi-monthly Movement Disorders Conference (20/yr)  
Neurology Physical Exam, group leader (one session)  
Medical Neuroscience, small group discussion leader (four sessions)  
Functional Genomics Course (two lectures)  
Genetics of Aging and Degeneration, Course Director and Organizer (12 sessions)  
Developmental Neuroscience course (two lectures)  
Medical Care Seminar for Law Students (one lecture)

2002 (Spring)

Medical Care Seminar for Law Students (one lecture)  
Medical Neuroscience, small group discussion leader (two sessions)  
Neurology Basic Science Lecture series (two lectures)  
Bi-monthly Movement Disorders Conference (10/semester)  
Developmental Neuroscience course, (two lectures)  
FCP-IV Neurological Exam (one session)

2002 (Fall)

Professional and Personal Development (FCP1) (weekly seminar, full semester)  
Bi-monthly Movement Disorders Conference (10/semester)  
Principles of Molecular and Cellular Biology, discussion leader (four sessions)  
Functional Genomics (two lectures)  
Methods in Neuroscience course (one lecture; molecular and cellular techniques)  
Introduction to Movement Disorders for medical students in Neurology rotation (one lecture)  
Neuropharmacology (one lecture)  
Introduction to movement disorders for medical students (one lecture)

2003 (Spring)

Medical Care Seminar for Law Students (one lecture)  
Neurology Basic Science Lecture series (two lectures)  
Bi-monthly Movement Disorders Conference (10/semester)  
Developmental Neuroscience course, (two lectures)  
FCP-IV Neurological Exam (one session)  
Introduction to movement disorders for medical students (one lecture)

2003 (Fall)

Professional and Personal Development (FCP1) (weekly seminar, full semester)  
Bi-monthly Movement Disorders Conference (10/semester)  
Methods in Neuroscience course (one lecture; molecular and cellular techniques)

Introduction to Movement Disorders for medical students in Neurology rotation (one lecture)  
Neuropharmacology (one lecture)  
Ethics in Research Graduate Seminar (one lecture; ethics and genetics)

2004 (Spring)

Medical Care Seminar for Law Students (one lecture)  
Neurology Basic Science Lecture series (two lectures)  
Bi-monthly Movement Disorders Conference (10/semester)  
Developmental Neuroscience course, (two lectures)  
Neurology Grand Rounds (two lectures)  
FCP-IV Neurological Exam (one session)  
Introduction to movement disorders for medical students (one lecture)

2004 (Fall)

Professional and Personal Development (FCP1) (weekly seminar, full semester)  
Bi-monthly Movement Disorders Conference (10/semester)  
Biochemical basis of neurodegenerative disease (one lecture, first year Biochemistry course for medical students)  
Introduction to movement disorders for medical students (one lecture)

2005 (Spring)

Medical Care Seminar for Law Students (one lecture)  
Neurology Basic Science Lecture series (two lectures)  
Bi-monthly Movement Disorders Conference (10/semester)  
Neuropharmacology (two hour lecture)  
Neurology Grand Rounds (one lecture)  
Introduction to movement disorders for medical students (one lecture)

2005 (Fall)

Bi-monthly Movement Disorders Conference (~8/semester)  
Introduction to Movement Disorders for medical students in Neurology rotation (one lecture)  
Biochemical basis of neurodegenerative disease (one lecture, first year Biochemistry course for medical students)  
Methods in Neuroscience: introduction to mouse models (one lecture)

2006 (Spring)

Bi-monthly Movement Disorders Conference (8/semester)  
Neuropharmacology (one two-hour lecture)  
Neurology Grand Rounds (one lecture)  
Developmental Neuroscience course (one lecture)  
Introduction to movement disorders for medical students (two lectures)

2006 (Fall)

Director, Neurobiology of Disease graduate seminar (18 lectures)  
Bi-monthly Movement Disorders Conference (~8/semester)  
Introduction to Movement Disorders for medical students in Neurology rotation (one lecture)  
Biochemical basis of neurodegenerative disease (one lecture, first year Biochemistry course for medical students)

2007 (Spring)

Neurology Grand Rounds (one lecture)  
Introduction to movement disorders for medical students (two lectures)

University of Michigan

2007 (Fall)

Univ of Michigan Neurology Grand Rounds (one lecture), Director, Program in Neurodegenerative Disease

2008 (Spring)

Univ of Michigan Neurology Grand Rounds (one lecture), "Update on Repeat Expansion Diseases"

2009 (Spring)

Univ of Michigan Neurology Grand Rounds (one lecture), "Toward Understanding and Treating Polyglutamine Disease"

2009 (Fall)

Univ of Michigan, Human Genetics Training Grant seminar (HG632), "Polyglutamine Neurodegeneration as a Paradigm of Heritable Neurodegenerative Disorders"

2010 (Spring)

Lecturer, Neuroscience graduate level course on Neurobiology of Disease, "Alzheimer's Disease Related Dementias," Univ. of Michigan

Lecturer, "Genetics of Dementias," Neuroscience graduate level course for Masters program in genetic counseling, Univ. of Michigan

2010 (Summer)

Univ of Michigan Neurology Grand Rounds (one lecture), "Dementia Update: Through the Genetics Looking Glass

2011 (Spring)

Lecturer, Neuroscience graduate level course on Neurobiology of Disease, "Alzheimer's Disease Related Dementias," Univ. of Michigan

Lecturer, "Genetics of Dementias," Neuroscience graduate level course for Master's program in genetic counseling, Univ. of Michigan

***Undergraduates Mentored:***

1999 Jessica Kleen, Howard Hughes Undergraduate Research Program

2000 Philip Lin, SUMR Honors Program College Student

2000-2004 Francisca Flores, Iowa Biosciences Advantage Program

2001 Aislinn Williams, SUMR Honors Program College Student

2002 Jeremy Price, (High School Student) Secondary Student Summer Training Program

2005 Daisy Huang, Interdisciplinary Summer Undergraduate Research Program

2005 Melissa Goelitz, Interdisciplinary Summer Undergraduate Research Program

2005-2006 Adam Iliff, UI Biochemistry research (for credit and honors)

2008-2010 Anusha Pabbati, UROP Student, UM

2008 Priyanka Jain, UROP Student, UM

2008-2009 Jessica Blount, Biology, UM

2008-2009 Eszter Zavodszky (Honors Research), UM

2008-2011 Michelle Ouyang, Work Study, UM

2009-2010 Naila Ashraf, UM

2009-2010 Natasha Kennedy, Work Study, UM

2009-2010 John Konen, Work Study, UM

2009-p Mark Dresselhouse, Work Study, UM

2099-p Lucas Fishman, Biology, UM  
 2010-p Scott Ismail, Neuroscience, UM  
 2011-p Jackie Davis, Work Study, UM  
 2011-p Bill Tennant, UROP Student, UM  
 2011-p Rahil Dharia, Work Study, UM

***Predoctoral Students Mentored:***

1998 Jolanda Lutke-Farwick, Visiting Medical Student from Holland  
 Sarah Berke, Neuroscience Graduate Program, Thesis  
 Victor Miller, Genetics Graduate Program, Thesis  
 2002 Tim Kresowik, Medical Student Summer Research Program  
 Ginger Clark Marrs, Genetics Graduate Program, PhD research  
 2002-2006 Rick Nelson, MSTP, Neuroscience Grad Program, Thesis  
 2003 Melanie Klawiter, Univ. South Dakota Med School, medical student  
 Shanna Nifoussi, Pharmacology, PhD Research  
 2005 Leah Franck, Medical Student Summer Research Program  
 2005 Katerina Dodelzon, Medical Student Summer Research Program  
 2006-2007 Liz Coon, Doris Duke Medical Student Fellow, Univ of Iowa  
 2006-2007 Mario Laco, visiting research fellow from Univ. Coimbra, Portugal (Univ. Coimbra), Grad Student  
 2004-2009 Brett Winborn, Molecular Biology Graduate Program, Thesis  
 2004-2009 Aislinn Williams, MSTP, Neuroscience Graduate Program, Thesis  
 2005-2010 Ginny Harris, Molecular Biology Graduate Program, Thesis  
 2008 Brendan Crawford, MSTP, Cellular and Molecular Biology  
 2008-2011 Wei-Ling Tsou, Research Fellowship, Taiwan, Thesis  
 2009-p Graham Atkin, Neuroscience Graduate Program, Thesis  
 2009 Jose Abreu, MSTAR Program (Puerto Rico medical student)  
 2011-p Li Zeng, visiting graduate student from China, Thesis  
 2011-p Biswa Ramani, MSTP, Neuroscience Graduate Program, Thesis  
 2011-p Bo Wang, Neuroscience Graduate Program, Thesis

***Postdoctoral Fellows Mentored:***

2000 Susan Nicholas, Medical School, Fellowship  
 2000-2002 Jeff Bishop, Pharmacy Graduate Program, Fellowship  
 1998-2001 Yaohui Chai PhD, Postdoctoral Fellow  
 2001-2005 Kevin Glenn MD, Postdoctoral Fellow/Instructor, Internal Medicine  
 2002-2004 Pedro Gonzalez-Alegre MD PhD, Postdoctoral Fellow, Neurology  
 2005-2010 Sokol Todi PhD, Postdoctoral Fellow, Neurology  
 2005-2010 Edgar Rodriguez PhD, Postdoctoral Fellow, Neurology  
 2007-p Matthew Scaglione PhD, Postdoctoral Fellow, Neurology

2008-2009 Mary Heng PhD, Postdoctoral Fellow, Neurology  
2008-p Maria do Carmo Costa PhD, Postdoctoral Fellow  
2009-2010 Ana Djarmati PhD, Postdoctoral Fellow  
2010-p Katuska Molina-Luna PhD, Postdoctoral Fellow  
2010-p John Basappa PhD, Postdoctoral Fellow  
2011-p Kai-Chun Chen PhD, Postdoctoral Fellow

***Predoctoral Rotation Students:***

1998 Sarah Shoesmith Berke, Neuroscience Graduate Program  
1998 Victor Miller, Genetics Graduate Program  
2002 Ginger Clark Marrs, Genetics Graduate Program  
2002 Rick Nelson, Medical Scientist Training Program  
2003 Aislinn Williams, Medical Scientist Training Program  
2004-2005 Shanna Nifoussi, Pharmacology  
Brett Winborn, Molecular Biology Graduate Program  
1997-1998 Ross McKimm, Neuroscience Graduate Program  
1998-1999 Jinghui Zhi, Neuroscience Graduate Program  
1999 Mitul Sakar, Neuroscience Graduate Program  
1999 Sara Farmen, Medical Scientist Training Program  
1999-2000 Jeff Bishop, Genetics Graduate Program  
2000 Jacob Sramek, Medical Scientist Training Program  
2000 Gumei Liu, Neuroscience Graduate Program  
2001 Kenneth Sykes, Medical Scientist Training Program  
2001 Christopher Hamm, Bioscience Graduate Program  
2001 Pedro Gonzalez-Alegre, Neurology Residency Program  
2002 Matt Blankenship, Neuroscience Graduate Program  
2003 Wei Li, Biosciences Graduate Program  
2003 Ginny Harris, Medical Scientist Training  
2003 Michelle Stanford, Genetics Graduate Program  
2003 Michael Gregory, Neuroscience Graduate Program  
2004 Justin Kauffman, Biosciences Graduate Program  
2007 Brendan Crawford, UM Cellular and Molecular Biology Graduate Program  
2008 Matt Smith, UM Neuroscience Graduate Program  
2008 Graham Atkin, UM Neuroscience Graduate Program  
2009 Lauren Kett, UM MSTP, Neuroscience Graduate Program  
2009 Cailin Collins, UM MSTP  
2010 Biswarathan Ramani, MSTP, UM  
2010 Josh Azevedo, Neuroscience Graduate Program  
2010 Bo Wang, Neuroscience Graduate Program

***Neurology Residents Mentored:  
(Laboratory projects)***

1998 Puneet Opal, Neurology Residency Program  
1999 Jackie Kraus, Neurology Residency Program  
2002 Morvarid Karimi, Neurology Residency Program

***Neurology Fellows Mentored:***

2008-2010 Vikram Shakkottai, MD, PhD, Movement Disorders & Neurogenetics Fellow  
2008-2009 Peter Todd, MD, PhD, Movement Disorders & Neurogenetics Fellow

***Visiting Faculty Supervised:***

2006 Bing-wen Soong, MD (visiting scholar) Research Sabbatical, Taipei, Taiwan  
2008-2010 Masayoshi Tada, MD, PhD, (visiting scholar) Brain Research Inst., Nigata University, Japan  
2011-p Takahiro Seki, PhD, (visiting scholar), Department of Molecular and Pharmacological Neuroscience, Graduate School of Biomedical Sciences, Hiroshima University, Hiroshima, Japan

***Honors/Grants Received by Mentored Students and Postdocs:***

1999-2000 Jeff Bishop, Merck/American Federation of Aging Research Scholarship in Geriatric Pharmacology  
2000 Susan Nicholas, Bristol-Myers Squibb Academic Medicine Fellowship  
2001-2003 Sarah Berke, NRSA Predoctoral Fellowship  
2001-2004 Francisca Flores, Minority Grant Supplement for Undergraduate Researcher (Supplement to Paulson R01 grant, NINDS, 2001-2004)  
2002-2004 Pedro Gonzalez-Alegre, Markham Fellowship, Dystonia Medical Research Foundation; S. Weir Mitchell Award, American Academy of Neurology (awarded to the outstanding junior scientist), 2003; Junior Investigator Award, Movement Disorders Society, 2004  
2003-06 Rick Nelson, NRSA Predoctoral Fellowship; Outstanding graduate student poster, College of Medicine Research Week, 2005  
2005-2006 Shanna Nifoussi, Molecular Biology Training Grant Awardee  
2005 Katerina Dodelzon, Outstanding Oral Presentation, Medical Student Research Day  
2005 Leah Franck, Outstanding Poster Presentation, Med Student Res. Day  
2005 Adam Iliff, Third Place, Undergraduate Poster Competition, Univ Iowa  
2005-2006 Sokol Todi, Postdoctoral Grant Awardee, National Ataxia Foundation  
2006-2007 Kevin Glenn, VA Career Development (RCD) Award recipient, 2006-2008; Alpha One Foundation Research Grant  
2006-2007 Liz Coon, Doris Duke Medical Student Fellowship, Univ Iowa; Medical Student Travel Award, PD & Other Movement Disorders ANA Satellite Mtg. to ANA annual meeting  
2006-2008 Aislinn Williams, Honorable Mention Award, Research Poster, Satellite meeting of the American Physician Scientist Association at ASCI, Chicago IL, 2006; Gordon Research Conference (Polyglutamine Diseases) Graduate Student Travel Award, 2007; NRSA Predoctoral Fellowship

- 2007 Sue Travis, Research Scientist Grant Award, National Ataxia Foundation
- 2007 Brett Williams, Outstanding Graduate Student poster, College of Medicine Research Week, 2007; Cold Spring Harbor "Ubiquitin Family" Symposium travel award, selected for platform presentation
- 2007 Aislinn Williams, 1). Society for Neuroscience and the Committee on Women in Neuroscience, Graduate Student Travel Award; 2). ANA annual meeting, Medical Student Travel Award, Parkinson's Disease and Other Movement Disorders Satellite Symposium (affiliated with ANA Annual Meeting), Medical Student Travel Award
- 2007-2008 Predoctoral NRSA (neuroscience MSTP grad student, Aislinn Williams)
- 2007-2008 Edgar Rodriguez-Lebron, NIH Supplement Grant Award to Promote Diversity (linked to PPG NS50210, B. Davidson, PI)
- 2008 Edgar Rodriguez-Lebron, Pilot Project - sub of MADRC, "The effects of novel, dual-silencing viral RNAi as a therapy for AD." Univ of Michigan
- 2007-2011 K. Matthew Scaglione, Ruth Kirschstein National Research Service Award, "Analysis of CHIP, a ubiquitin ligase implicated in neurodegeneration." 1 F32 NS064596-01
- 2008 K. Matthew Scaglione, University of Michigan Institute of Gerontology, Biogerontology Training Grant, NIA Training Grant AG000114
- 08/08-07/11 K. Matthew Scaglione, 2008 Ellison/AFAR Postdoctoral Research in Aging Grant, "Analysis of CHIP, a ubiquitin ligase implicated in age-related neurodegeneration." \$46,826 5F32 NS064596
- 2008-2009 Aislinn Williams, Internship, World Health Organization (WHO) Mental Health Gap Action Programme (myGAP)
- 2009-2010 Eszter Zavodszky, Churchill Scholarship, Univ. of Cambridge, England
- 2009 Liz Coon, Research Distinction Track Award upon medical school graduation, UIHC
- 06/2009 Edgardo Rodriguez, Young Investigator Award, Gordon Research Conference, CAG Triplet Repeat Disorders, Waterville Valley, NH
- 06/2009 Ana Djarmati, 2009 David Marsden Award, European Dystonia Federation
- 09/09-06/11 Sokol Todi, NIH K99/R00 Career Development Grant, 1K99NS064097 "Posttranslational modification of deubiquitinating enzymes in neurodegeneration," \$173,189, (PI Todi) Role: Mentor
- 2008-2010 Maria do Carmo Costa, Development of therapeutic strategies for Machado-Joseph disease using mouse models, postdoctoral fellowship to Maria do Carmo Costa, PhD, from Fundação para a Ciência e a Tecnologia (FCT) (SFRH/BPD/28560/2006). Role: Mentor
- 01/2011 Maria do Carmo Costa, *Developing an SCA3 therapeutic: small molecules that reduce levels of mutant ataxin-3*, Research Grant from National Ataxia Foundation, \$35,000. Role: Mentor

***Honors/Grants Received by Mentored Neurology Fellows:***

- 2002-2004 Pedro Gonzalez-Alegre, Markham Fellowship, Dystonia Medical Research Foundation

2003	Pedro Gonzalez-Alegre, S. Weir Mitchell Award, American Academy of Neurology
2004	Pedro Gonzalez-Alegre, Junior Investigator Award, Movement Disorders Society
2008-2010	Peter Todd, American Academy of Neurology Clinical Research Fellowship, "Defining the mechanism of mRNA-mediated neurodegeneration in Fragile X Tremor Ataxia Syndrome." \$130,000 Role: Mentor
06/2009	Vikram Shakkottai, Young Investigator Award, Gordon Research Conference, CAG Triplet Repeat Disorders, Waterville Valley, NH
01/01/10-12/31/10	National Ataxia Foundation, "Understanding the Role of Altered Physiology in the Pathogenesis of SCA3." PI Shakkottai, \$35,000
3/2010	Peter Todd, Alliance S. Weir Mitchell Award, Neurogenetics research, American Academy of Neurology
04/15/10-04/14/12	Dystonia Medical Research Foundation, "Understanding the Role of the Cerebellum in Dystonia." (PI Shakkottai), Role: Co-I, \$128,702
07/01/10-06/30/15	NIH/NINDS 1K08NS069809-01, Clinical Scientist Development Award, "Pathogenic mechanisms in Fragile X Tremor Ataxia Syndrome," \$968,098 (PI Todd), Mentor: Henry Paulson, MD, PhD
9/01/10-8/31/15	NIH, NINDS, 1-K08-NS-072158-01, "Targeting physiologic changes as a route towards therapy for degenerative ataxias," PI Shakkottai, \$848,340

***Other Contributions to Instructional Programs:***

2001-2007	Member, Student Advisory Committee, Medical Scientist Training Program, Univ. Iowa (Chair for two years)
2001-2007	Member, Executive Committee, Medical Scientist Training Program, Univ. Iowa
2000	Organizer, Genetics Graduate Program Annual Retreat, Univ. Iowa
Spring 2001	Organizer and Director, Genetics Program Seminar Course, Genetics of Aging and Neurodegeneration, Univ. Iowa
2000-2003	Member, Neuroscience Program Comprehensive Exam Committee, Univ. Iowa
2001–p	Member, Medical Student Research Council, Univ. Iowa
1998, 1999, 2002	Brain Awareness Week, Univ. Iowa
2001	Genetics Retreat, Univ. Iowa
2002, 03, 04, 06	Medical Student Research Day, Univ. Iowa
2002, 2005	College of Medicine Research Week, Univ. Iowa
2003	Participant, Science Panel, Biosciences Undergraduate Poster Competition
2007-present	Member, Career Advisory Panel, MSTP, University of Michigan
2007-present	Member, Neuroscience Graduate Program, Univ. of Michigan Member of Executive Committee, 2008-present
2007-present	Member, Cellular and Molecular Biology Graduate Program, Univ. of Mich
2009	Instructor, The Movement Disorders CME Course: A Practical Approach to Movement Disorders. "Update on Inherited Ataxias," Plymouth, MI
2010	Instructor, Human Genetics Course, "Genetics of Dementia," Univ. of Michigan

2011                      Guest Speaker, Muddy Phuddy Club, University of Michigan Medical Science  
Training Program

***Committee Member, PhD Thesis Comprehensive Examinations:***

1998      Myoung Kang, physiology  
1999      Jessica Wood, genetics  
1999      Brian Foster, molecular biology  
1999      Tingting Yao, biochemistry  
1999      Dimple Bansal, genetics  
1999      Daping Li, biology  
1999      Sarah Shoesmith Berke, neuroscience  
2000      Irfan Saadi, genetics  
2000      Ravi Nistala, molecular biology  
2001      Rebecca Schultz, genetics  
2001      Glenn Marrs, neuroscience  
2001      Ginger Clark Marrs, genetics  
2002      Ana Hutton, neuroscience  
2002      Wenjie Chen, genetics  
2003      Karrie Hines, genetics  
2003      Doug Dylla, molecular biology  
2004      Mitul Sakar, neuroscience  
2004      Tim Moss, genetics; Committee Chair  
2004      Zhen Hu, biochemistry  
2004      Marisa Banesik, genetics  
2004      Wei Li, genetics, Committee Chair  
2005      Marwan Tayeh genetics  
2005      Tony Fischer, genetics  
2005      Adam Espie-Ziemann, physiology  
2005      Christina Firm, genetics  
2006      Colleen Campbell, genetics

***Member, PhD Thesis Advisory Committees:***

Iowa:

1998-2001      Jessica Wood, MSTP  
1998-2002      Tingting Yao, biochemistry  
1999-2001      Jeff Sall, MSTP  
1998-2002      Myoung Kang, physiology  
1999-2003      Dimple Bansal, genetics  
1999-2003      Jyothi Arikath, molecular biology  
1999-2004      Sarah Shoesmith Berke, neuroscience; Committee Chair  
2000-2003      Irfan Saadi, genetics  
2001-2003      Rebecca Schultz, genetics

2000-2005 Victor Miller, genetics; Committee Chair  
 2000-2004 Ginger Clark Marrs, genetics; Committee Chair  
 2003-2006 Wenjie (Jackie) Chen, genetics  
 2003-2007 Jacob Satz, neuroscience  
 2003-2007 Tim Moss, genetics  
 2003-2005 Gumei Liu, genetics  
 2003-2006 Rick Nelson, MSTP, neuroscience; Committee Chair  
 2003-2006 Kenneth Sykes, MSTP and pharmacology  
 2004-2007 Doug Dylla, genetics  
 2004-2007 Wei Li, genetics  
 2004-2006 Marisa Banesik, genetics  
 2004-2006 Tony Fischer, genetics  
 2005-2006 Adam Espie-Ziemann, physiology  
 2005-2007 Christina Firm, genetics  
 2005-2007 Adrienne Benedicktsson, neuroscience  
 2005-2007 Jennifer Marden, molecular biology  
 2005-2006 Shanna Niffousi, pharmacology; Committee Chair  
 2004-2007 Marwan Tayeh, genetics  
 2004-2008 Mitul Sarkar, neuroscience  
 2005-2008 Brett Winborn, molecular biology; Committee Chair  
 2005-2008 Aislinn Williams, MSTP, neuroscience; Committee Chair  
 2006-present Ginny Harris, molecular biology; Committee Chair

Michigan:

2009-present Kristine Ito, UM cellular & molecular biology  
 2009-2011 Cole Ferguson, MSTP, UM neuroscience  
 2009-2011 Adrienne Wang, UM neuroscience  
 2009-2012 Elizabeth Gibbs, UM neuroscience  
 2009-present Youjian Chi, UM cellular and molecular biology  
 2009-2012 Andrea D. Thompson, UM MSTP, Chemical Biology Program  
 2009-present Kelly Bakulski, Environmental Health Science, SPH Graduate Program  
 2009-present Graham Atkin, UM Neuroscience (Chair, thesis committee)  
 2011-present Biswarathan Ramani, UM MSTP, UM Neuroscience  
 2011-present Bo Wang, UM Neuroscience

**Member, Master's Degree Thesis Advisory Committees:**

2001-2002 Ravi Nistala

**Invited National Education Presentations:**

1998 Lecture, "Genetics of Ataxia," American Academy of Neurology Meeting

- 1999 Lecture, "Genetics of Ataxia," AAN Meeting
- 2000 Lecture, "Genetics of Ataxia," AAN Meeting
- 2001 Director, full-day course "Genetics in Neurology," AAN Meeting
- 2001 Lecture, "Genetics of Movement Disorders," AAN Annual Meeting
- 2001 Lecturer, "Overview of polyglutamine diseases," Neurobiology of Disease Workshop; Society for Neuroscience Annual meeting
- 2002 Director, full-day Course "Genetics in Neurology," AAN Meeting
- 2002 Lecture, "Inherited Ataxia and Hereditary Spastic Paraplegia," AAN Meeting
- 2002 Director, evening course, "Ataxia: What's and How's of Acquired and Inherited Disease," AAN Annual Meeting
- 2003 Lecture, "Neurogenetics: an Update and Overview," AAN Winter Conference
- 2003 Director, full-day Course "Genetics in Neurology," AAN Annual Meeting
- 2003 Lecture, "Inherited Ataxia and Hereditary Spastic Paraplegia," AAN Meeting
- 2003 Director, evening course, "Ataxia: What's, How's of Acquired and Inherited Disease," AAN Meeting
- 2003 Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Meeting
- 2004 Director, Full-day Course "Genetics in Neurology," AAN Annual Meeting
- 2004 Lecturer, "Genetics in Neurology Course (Dynamic Repeat Expansion Diseases) AAN Annual Meeting
- 2004 Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Annual Meeting
- 2004 Lecturer, "Allele-specific silencing," RNA Interference Workshop; Society for Neuroscience Annual meeting
- 2005 Director and Issue Editor, AAN Continuum Issue on Neurogenetics
- 2005 Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Annual Meeting
- 2005 Lecturer, "Genetics in Neurology" Course (Dynamic Repeat Expansion Diseases) AAN Annual Meeting
- 2005 Lecturer, "Scientific Basis of Neurology" Course ("RNA interference in Neurology") AAN Annual Meeting
- 2005 Chairperson and Organizer, Neurodegenerative Diseases Symposium, American Neurological Association Annual Meeting September
- 2005 Lecturer, "Allele-specific silencing," Vectors and RNA Interference for Neuroscience Application Workshop; Society for Neuroscience Annual meeting
- 2006 Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Annual Meeting
- 2006 Lecturer, "Genetics in Neurology" Course (Dynamic Repeat Expansion Diseases) AAN Annual Meeting
- 2006 Lecturer, "Genetics 101" Course (RNA interference in Neurology) AAN Annual Meeting
- 2006 Invited Discussant, Integrated Program in Genetics and Movement Disorders, AAN Annual Meeting

- Sep 2006 Chairperson and Organizer, Neurobiology of Disease Symposium on Alzheimer Disease and Related Dementias, American Neurological Association Annual Meeting
- Sep 2006 Lecturer, "Update on RNA interference," American Neurological Assoc. Annual Meeting
- Nov 2006 Lecturer, "Latest Developments in Trinucleotide Repeat Diseases," 10<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, Kyoto, Japan
- Dec 2006 Lecturer, "Exploring RNAi as therapy for dominant neurological disease," Cold Spring Harbor Annual Symposium on Neurodegenerative Diseases, Biology and Therapeutics
- Jan 2007 Keynote Speaker, "Toward understanding pathogenesis of hereditary ataxias," and New molecular approaches to therapy for ataxia," 3<sup>rd</sup> Annual CCH International Symposium on Genomic Medicine, Taiwan-Chaugua,
- 2008 Lecturer, "Genetics in Neurology" Course (Dynamic Repeat Expansion Diseases)  
Director, "Ataxia: An Update" Breakfast Seminar Course, AAN Annual Meeting, Chicago, IL
- Mar 2008 Lecturer, 2 lectures, ("Clinical Update on Spinocerebellar Ataxias," "Toward Understanding & Treating Ataxia), 34<sup>th</sup> Annual Meeting, North American Neuro-Ophthalmology Society, Orlando, FL
- Apr 2009 American Academy of Neurology Annual Meeting, Seattle, WA:  
Director, "Update on Ataxias," Breakfast Seminar Course  
Lecturer, "Genetics in Neurology," All day course  
Co-chair, Session S29: Neurogenetics, Science Committee & Scientific Program Subcommittee  
Frontiers Plenary Lecturer, "Toward Therapies for Polyglutamine Diseases"
- June 2009 Invited lecture, "The Genetics of Movement Disorders: Tools & Techniques"  
Parallel Session Chair, "New Horizons in Parkinson's disease"  
13<sup>th</sup> International Congress, The Movement Disorder Society, Paris, France
- Apr 2010 Director and Lecturer, "Update on Ataxias" Course,  
Lecturer, "Genetics of Dementia," Genetics in Neurology Course  
AAN Annual Meeting, Toronto, Canada
- Apr 2011 Director and Lecturer, "Update on Ataxias" Course,  
Lecturer, "Genetics of Dementia," Genetics in Neurology Course  
AAN Annual Meeting, Waikiki Beach, Hawaii

## **Committee, Organizational, & Volunteer Service**

### ***Service on Departmental, Collegiate and University Committees/Programs:***

#### University of Iowa, Carver College of Medicine, Iowa City, IA

- |              |  |
|--------------|--|
| 1997-present | Member, Interdepartmental Program in Neuroscience                                    |
| 1997-present | Member, Interdepartmental Program in Genetics  |
| 1998-present | Member, MSTP Student Advisory Committee (Chairperson, 2000-present)                  |
| 1998-2007    | Medical Student (MSTP) Interviewer   |
| 1998-2007    | Member, Center on Aging  |
| 1998-2001    | University Research Council (Member of Core Facilities Review task force, 2000-2001) |

1999-2000	Member, Faculty Recruitment Search Committee, Physiology and Biophysics Dept.
2000-2007	Member, MSTP Executive Committee (Chair, Student Advisory Committee)
2001-2007	Member, Medical Student Research Council
2001-2007	Member, Community Boulware of Medical School
2000-2004	Member, Neuroscience Program Comprehensive Exam Committee
2001	Member, Advisory Council on Postdoctoral Education
2003-2007	Member, Biosciences Initiative Advisory Board (includes grant reviewing)
2003-2007	Member, Center for Gene Therapy
2004	Member, Research Design Strategy Team, College of Medicine Strategic Planning
2004	Member, Search Committee for Chairperson, Dept. of Ophthalmology
2004-2007	Member, Faculty Recruitment Committee, Dept. of Neurology, UIHC
2005-2006	Member, Search/Recruitment Committee, Muscular Dystrophy Center
2005	Member, Search Committee for Associate Dean for Research, College of Medicine
2005-2006	Member, Search Committee for Geriatrics Division Head, Dept Medicine, College of Medicine
2005-2006	Departmental Review Committee, Department of Psychiatry

University of Michigan, Ann Arbor, MI

2007-present	Member: Graduate Program in Cellular and Molecular Biology
2007-present	Member: Neuroscience Graduate Program, Executive Committee
2007-present	Member, Medical Scientist Training Program
2007-present	Member, Nathan Shock Center of Excellence in the Basic Biology of Aging
2008	Judge, Neuroscience Day, Dept of Neurology, University of Michigan
2008-present	Member, Executive Committee, Dept. of Neurology
2008-present	Associate Director, Alzheimer's Disease Research Center (MADRC)
2008-present	Member, Advisory Committee, Appointments, Promotions & Awards (APAC)
2010	Moderator, Panel on "Medical Conditions & Transportation Education," Transportation Research & Education Conference, UM-CASTL (April 7, 2010)
2010-2011	Member, Big Science Committee, University of Michigan Health Systems
2011-present	Director, Alzheimer's Disease Center (MADC)

***Community Service and Presentations:***

Feb 1997	Invited lecture, Parkinson's Disease Support Group, Delaware Valley Chapter
Jan, Apr 1997	Invited lecture, National Ataxia Foundation, Delaware Valley Chapter
Nov 1997	Invited lecture, Huntington Disease Society, Iowa Chapter
Apr 1998	Invited lecture, Great Plains Genetic Conference
1998	Conference Co-Organizer, Carver Symposium, Molecular Basis of Neurogenetic Diseases, Iowa City
Mar 1999	Invited lecture, Brain Awareness Week, Iowa City, IA

May 1999 Invited lecture, Huntington Disease Society, Iowa Chapter

2000 Community Outreach, Brain Awareness Week, visit to local elementary school

Apr 2000 Huntington Disease Society, Iowa Chapter

2001 Participating neuroscientist at Kids Judge, Brain Awareness Week

2001-05, 2007 "Birds of a Feather", Annual National Ataxia Foundation Meeting, Patient support group for MJD/SCA3

Oct 2002 Presentation at annual regional Machado-Joseph disease Clinic, Fall River, MA

Oct 2002 Invited Lecture and Participant, "Update on HD Research," Indiana Annual HDSA meeting, Indianapolis, IN

Mar 2003 Huntington Disease Society, Iowa Chapter

Apr 2003 Invited Lecture, "Treatment of Parkinson's Disease", Refresher Course for the Family Physician, Univ Iowa

June 2003 "New insights into neurodegenerative disease." Invited presentation to new members of the Iowa Board of Regents

July 2004 Huntington Disease Society, Iowa Chapter

2004 Invited Lecture, "What's new in Alzheimer's disease? New approaches to a possible cure." The Club, Iowa City, IA

Nov 2004 Invited lecture and Panel Session Participant, All California Ataxia Research Meeting, Sacramento, CA

June 2005 Invited Course Lecturer, Banbury Conference on Neurodegenerative Diseases, Cold Spring Harbor, NY

June 2005 Invited Keynote Lecture, Huntington Disease Society, Minnesota Chapter

Aug 2005 Huntington Disease Society, Iowa Chapter

Sept 2005 Invited Keynote Lecture, Huntington Disease Society, South Dakota Chapter

July 2005 Huntington Disease Society, Iowa Chapter Annual Meeting

Sep 2006 Huntington Disease Society, Iowa City Chapter

Mar 2009 Panel Member and discussant on Alzheimer's disease, Ann Arbor Community, Huron High School, Ann Arbor, MI (in conjunction with screening of a new independent full length film on AD)

May 2009 Invited lecturer, "Dementia Basics," Alzheimer's & Dementia Educational Seminars: Comforting Solutions for Challenging Issues, Towsley Village Theatre, Chelsea, MI

May 2009 Interview on Alzheimer's disease, broadcast in the Detroit Area on radio program, "The Senior Solution," hosted by Paul Bridgewater

Sep 2009 Invited lecturer, "Alzheimer's Research Update," Alzheimer's & Dementia Educational Seminars: Comforting Solutions for Challenging Issues, Towsley Village Theatre, Chelsea, MI

Sep 2009 Invited lecturer, "Alzheimer's and Related Dementias: New Insights," Univ of Michigan Medical School Reunion 2009, Ann Arbor Marriott Ypsilanti at Eagle Crest Resort, Ypsilanti, MI

Sep 2009 Invited lecturer, "Ataxia: A Reason for Hope," National Ataxia Foundation, Detroit Chapter, Walk & Roll, Detroit, MI

Oct 2009	Speaker, "New Directions in Alzheimer's Disease Research," Community Appreciation Conference, Michigan Alzheimer's Disease Research Center, Ypsilanti, MI
Nov 2009	Speaker, "Advances in the Assessment and Treatment of Alzheimer's disease & Related Disorders," 13 <sup>th</sup> Edna Gates Conf. on Alzheimer's Care, Troy, MI
Jan 2010	Speaker, "Alzheimer's and Related Dementias: New Insights," Rotary Club of Ann Arbor, Michigan Union, Ann Arbor, MI
Feb 2010	Speaker, "Toward Understanding and Treating the 'Polyglutamine Ataxias,'" Chesapeake Chapter of the National Ataxia Foundation, Rockville, MD
March 2010	Speaker, "Update on Alzheimer disease and related dementias," Silver Club Programs, Family Liaison, Ann Arbor, MI
Apr 2010	Moderator, Panel on "Medical Conditions & Transportation," Transportation Research and Education Conference, M-CASTL
Apr 2010	Speaker, "Advances in Alzheimer's Disease and Related Dementias," Mette Foundation, Ann Arbor MI
Apr 2010	Speaker, "Advances in Assessment and Treatment of Alzheimer's Disease and Related Disorders," Alzheimer's Association, Northwest Ohio Chapter, Toledo
May 2010	Speaker, Seventh Annual, Mental Health and Aging Conference, "Advances in Assessment and Treatment of Alzheimer's Disease and Related Disorders," Conference, East Lansing, MI
Sep 2010	Invited lecturer, "Ataxia: A Reason for Hope," National Ataxia Foundation, Detroit Chapter, Walk & Roll, Detroit, MI
Feb 2011	Speaker, Early Memory Loss Programs (Silver Club), Univ of Michigan Geriatrics Center, Ann Arbor, MI
June 2011	Invited speaker, "Research and Development in Alzheimer's Disease, 2011 Alzheimer's & Dementia Institute, E. Lansing, MI
Sept 2011	Invited speaker, "Research Update in Dementia," World Alzheimer's Day Conference, Detroit, MI
Oct 2011	Invited speaker and Conference Chair, "What's New at the Michigan Alzheimer's Disease Center?" MADC Annual Community Appreciation Conference, Ann Arbor, MI

***Committee Member, Professional Organizations:***

1998-2002	Member, Steering Committee for the "Coalition for the Cure," Huntington Disease Society of America (HDSA)
1998-present	Member, Medical and Research Advisory Board, National Ataxia Foundation
1998-2007	Member, Clinical Therapeutics Committee, Coordinated Ataxia Group (Committee Head, 2002-present) (Executive Committee, 2007- present)
1998-present	Member, Scientific Advisory Board, Ataxia MJD Research Project
2000-present	Member, Medical and Scientific Advisory Committee, Huntington Disease Society of America
2001-2005	Member, Annual Meeting Subcommittee, American Academy of Neurology
2002-2006	Member, Scientific Advisory Board, Dystonia Medical Research Foundation
2003-2007	Member, Lecture and Awards Subcommittee, American Academy of Neurology

2003-2005	Member, Directions Committee, Dystonia Medical Research Foundation
2004-2007	Chair, Grants and Fellowships Subcommittee, Huntington's Disease Society of America (Chair, 2005)
2004-2007	Member, Education Committee, Society for Neuroscience
2004-2008	Member, NSD-B/NINDS CSR Study Section Committee
2004-2006	Member, Scientific Program Advisory Committee, American Neurological Association
2004-2009	Member, American Society for Biochemistry and Molecular Biology
2005-present	Executive Committee, Movement Disorders Section, Education Workgroup Leader, AAN
2005-2007	Member, Science Committee, American Academy of Neurology
2005-2008	Member, Program Committee, Society for Neuroscience
2005-2006	Member, Nominating Committee, Huntington Study Group
2007-2011	Member, Scientific Advisory Board, Bachmann-Strauss Dystonia and Parkinson's Disease Foundation
2007-present	Member and Co-chair, NIH-NINDS Board of Scientific Counselors
2007-present	Co-chair, NINDS Strategic Planning Disease Module
2007-2011	Member, Congress Scientific Program Committee, Movement Disorders Society
2007-present	Member, AAN Movement Disorders Research Award Subcommittee
2007-present	Member, Program Committee, Society for Neuroscience
2008	Chair, Young Investigators' Awards, NAF International Ataxia Investigators' Meeting
2008	Member, Steering Committee, NAF International Ataxia Investigator's Meeting
2008	Reviewer, AAN Topic Work Group, Neurogenetics
2008	Chair, FXTAS Parallel Session; Co-director, Genetics Guided Poster Tour, MDS 12 <sup>th</sup> International Congress
2008	Member, Executive Committee, Coordinated Ataxia Group
2008-present	Co-Chair, NINDS Advisory Panel for Disease Research (Disease Module)
2009	Member, Scientific Committee, 5th International Workshop on Machado-Joseph Disease, S. Miguel, Azores, April 1-3, 2009.
2010	Co-Director, NAF International Ataxia Investigators' Meeting 2010
2010	Member, Steering Committee, NAF International Ataxia Investigator's Meeting
2010	Councilor, American Academy of Neurology, Neurogenetics Executive Committee
2011-present	Member, Scientific Advisory Board, Hereditary Disease Foundation
2011	Co-Organizer and Director, Dystonia Think Tank, Bachmann-Strauss Dystonia & Parkinson Foundation
2011-12	Director, NAF International Ataxia Investigators' Meeting 2012

***Recent Interviews:***

- Oct 2009 Interview by Ken Garber for company profile of Proteostasis Therapeutics, Nature Biotechnology Dec 2009;27(12):1070.
- Apr 2010 Interview on Alzheimer's disease, broadcast in the Detroit Area on radio station WJR, hosted by Paul W. Smith

## Consulting Positions

- 2006-2007 Sirna Therapeutics, Advisory Board
- 2009 Targeted Genetics Corporation, Amyotrophic Lateral Sclerosis Advisory Board
- 2009-present Shire Human Genetic Therapy, Scientific Consultant

## Visiting Professorships, Seminars, & Extramural Invited Presentations

### *Major or Keynote Plenary Talks at National & International Meetings:*

- 1997 American Society of Human Genetics Annual Meeting (major research plenary session)
- 1999 American Neurological Association (plenary session - late breaking research)
- 2001 International Society of Neurochemistry, International Meeting, Plenary Speaker Buenos Aires, Argentina,
- 2004 American Neurological Association Annual Meeting, Invited Plenary Session Speaker Toronto, Canada
- 2005 Invited plenary session speaker, World Congress on Huntington's Disease (Manchester, England)
- 2004 American Neurological Association (plenary session, Novel Therapies for Devastating Neurological Diseases)
- 2004 Keynote Speaker, Mathew Moore Distinguished Lectureship, American Association of Neuropathology, Cleveland, OH
- 2005 American Neurological Association Annual Meeting, Plenary session speaker (selected abstracts), San Diego CA
- 2005 American Neurological Association (one of nine abstracts selected for plenary session presentation)
- 2005 International Ataxia Satellite Conference. Invited plenary session speaker, Queensland, Australia
- 2005 World Congress of Neurology, Invited plenary session speaker, Sydney, Australia
- 2005 Keynote Speaker, Nineteenth Annual Symposia on Etiology, Pathogenesis, and Treatment of Parkinson's Disease & Other Movement Disorders; San Diego, CA
- 2006 Invited Lecturer, ("Latest Developments in Trinucleotide Repeat Diseases") 10<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders, Kyoto Japan
- 2006 American Neurological Association (plenary session, Novel Approaches to Therapeutics)
- 2007 Keynote Speaker, "Toward understanding pathogenesis of hereditary ataxias," and new molecular approaches to therapy for ataxia," 3<sup>rd</sup> Annual CCH International Symposium on Genomic Medicine, Taiwan-Chaugua,

- 2009 American Academy of Neurology (plenary session, "Toward Therapies for Polyglutamine Diseases"), April 24-30, 2009, Seattle, WA
- 2011 American Academy of Neurology (invited speaker, Integrated Neuroscience Genetics of Movement Disorders session, "Genetic Aspects of RNA disorders"), Hawaii

***Other Invited National and International Meeting Presentations:***

- 1997 COE International Symposium on Neurodegenerative Diseases, Tokyo, Japan
- 1997 International Ataxia Conference, Montreal, Canada
- 1998 Japanese National Ataxia Conference, Tokyo, Japan
- 1998 The Cerebellum in Health and Disease, International Conference, Department of Neurology, Tuebingen, Germany
- 1998 Instructor, "Genetics of Ataxia," AAN Annual Meeting, Minneapolis, MN
- 1999 Lecture, "Genetics of Ataxia," AAN Annual Meeting (genetics course)
- 1999 Annual meeting of Japanese Neurological Society, Tokyo, Japan
- 1999 International Conference of Neuronal Apoptosis, Tuebingen, Germany
- 1999 International Ataxia Conference, Seattle, WA (Session Chair)
- 1999 Frontiers of Science Symposium, National Academy of Science, Irvine, CA (Session Chair)
- 2000 Lecture, "Genetics of Ataxia," AAN Annual Meeting (genetics course)
- 2000 Italian Triplet Repeats Disease Conference, Milan, Italy (Session Chair)
- 2000 Alpha One Foundation (Anti-trypsin) Conference, Airlie Conf. Center, VA
- 2000 COE International Symposium of Neurodegenerative Diseases, Nagoya, Japan
- 2001 Director, full-day course "Genetics in Neurology," AAN Annual Meeting
- 2001 Lecture, "Genetics of Movement Disorders," AAN Annual Meeting
- 2001 Lecturer, "Overview of polyglutamine diseases," Neurobiology of Disease Workshop; Society for Neuroscience Annual meeting
- 2001 American Society of Experimental Neurotherapeutics National Meeting, Washington, DC
- 2001 Huntington Disease Society of America Annual National Meeting, San Diego, CA
- 2001 International Ataxia Symposium (Satellite to American Neurological Association) Chicago, IL
- 2002 National Ataxia Foundation Annual National Conference, St Louis, MO
- 2002 International Symposium on Polyglutamine diseases, Bonn, Germany (Session Chair)
- 2002 Director, full-day Course "Genetics in Neurology," AAN Annual Meeting
- 2002 Lecture, "Inherited Ataxia and Hereditary Spastic Paraplegia," AAN Annual Meeting
- 2002 Director, evening course, "Ataxia: What's and Hows' of Acquired and Inherited Disease," AAN Annual Meeting
- 2003 Emory University, Recent Advances in Ataxia course, Atlanta, GA
- 2003 National Ataxia Foundation Annual National Conference, Atlanta, GA
- 2003 Lecture, "Neurogenetics: an Update and Overview," AAN Winter Conference

- 2003 Director, full-day Course "Genetics in Neurology," AAN Annual Meeting
- 2003 Lecture, "Inherited Ataxia and Hereditary Spastic Paraplegia," AAN Annual Meeting
- 2003 Director, evening course, "Ataxia: What's, How's of Acquired and Inherited Disease," AAN Meeting
- 2003 Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Annual Meeting
- 2003 Invited Lecturer, Gordon Research Conference on CAG Repeat Diseases, Italy
- 2003 Invited Lecturer, Japanese Society of Neurochemistry, Niigata, Japan
- 2004 Director, Full-day Course "Genetics in Neurology," AAN Annual Meeting
- 2004 Lecturer, "Genetics in Neurology Course (Dynamic Repeat Expansion Diseases) AAN Annual Meeting
- 2004 Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Annual Meeting
- 2004 Lecturer, "Allele-specific silencing," RNA Interference Workshop; Society for Neuroscience Annual Meeting
- 2004 Invited Lecturer, National Ataxia Foundation Annual Conference, San Diego, CA
- 2004 Invited lecturer, FEBS Conference, Ofir, Portugal
- 2004 Invited Lecturer, RNAi Workshop, Society for Neuroscience Annual Meeting, San Diego, CA
- 2004 Invited Lecturer and Panel Session Participant, All California Ataxia Research Meeting, Sacramento, CA
- 2005 Invited Lecturer, National Ataxia Investigator Meeting, Tampa, FL
- 2005 Invited Lecturer, National Ataxia Foundation National Meeting, FL
- 2005 Director and Issue Editor, AAN Continuum Issue on Neurogenetics
- 2005 Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Annual Meeting
- 2005 Lecturer, "Genetics in Neurology" Course (Dynamic Repeat Expansion Diseases) AAN Annual Meeting
- 2005 Lecturer, "Scientific Basis of Neurology" Course ("RNA interference in Neurology") AAN Annual Meeting
- 2005 Chairperson and Organizer, Neurodegenerative Diseases Symposium, American Neurological Association Annual Meeting
- 2005 Lecturer, "Allele-specific silencing," Vectors and RNA Interference for Neuroscience Application Workshop; Society for Neuroscience Annual meeting
- 2005 Invited Lecturer, "Issues in Genetic Testing in Neurology," Genetic Testing Course, AAN Annual Meeting
- 2005 Invited Lecturer, "Genetics in Neurology" Course (Dynamic Repeat Expansion Diseases) AAN Annual Meeting
- 2005 Invited Lecturer, "Scientific Basis of Neurology" Course ("RNA interference in Neurology") AAN Annual Meeting
- 2005 Chair, Neurodegenerative Diseases Symposium, American Neurological Association Annual Meeting, San Diego CA

- 2005 Invited Lecturer, RNAi Workshop, Society for Neuroscience annual meeting, Washington, DC
- 2006 AAN Annual Meeting:  
Lecturer, "Genetics in Neurology" Course (Dynamic Repeat Expansion Diseases)  
Lecturer, "Genetics 101" Course (RNA interference in Neurology) Invited Discussant, Integrated Program in Genetics and Movement Disorders  
Invited Lecturer, Genetic Testing Course ("Issues in Genetic Testing in Neurology")
- Sep 2006 Chairperson and Organizer, Neurobiology of Disease Symposium on Alzheimer Disease and Related Dementias, American Neurological Association Annual Meeting  
Lecturer, "Update on RNA interference," American Neurological Association Annual Meeting, Chicago, IL
- Dec 2006 Invited Lecturer, Cold Spring Harbor Annual Symposium on Neurodegenerative Diseases, Biology and Therapeutics ("Exploring RNAi as therapy for dominant neurological disease") Cold Spring Harbor, NY
- Mar 2007 Invited Lecturer ("Update on Spinocerebellar Ataxia type 3"), National Ataxia Foundation National Meeting, Memphis, TN
- May 2007 Invited Lecturer, Genetics in Neurology Course ("Repeat Expansion Diseases") AAN Annual Meeting, Boston MA
- May 2007 Invited Lecturer, ("Update on SCA3/MJD") GeNeMove Conference, Bonn, Germany
- May 2007 Invited Lecturer, ("Toward Understanding Pathogenesis of the Polyglutamine Disease, Machado-Joseph Disease") 10th International Union of Biochemistry and Molecular Biology Conference (IUBMB), held in conjunction with 36th Annual Meeting of the Brazilian Society of Biochemistry and Molecular Biology, Salvador, Bahia, Brazil
- Sep 2007 Invited Lecturer, Berg Symposium ("Exploring RNAi as Therapy for Protein Misfolding Disorders"), WUSTL, St Louis, MO
- Oct 2007 Invited Lecturer, Bachmann-Strauss Grantee Presentations ("RNAi Approaches for Dystonia"), New York, NY
- Jan 2008 Invited Lecturer, ("Symposium on Sequestosome Aggregation and Neurodegeneration") 41<sup>st</sup> Winter Conference on Brain Research, Snowbird, UT
- Feb 2008 Invited Lecturer, ("Toward Understanding Polyglutamine Neurodegeneration"), UCSF, San Francisco, CA
- Mar 2008 Invited Lecturer, 2 lectures, ("Clinical Update on Spinocerebellar Ataxias," "Toward Understanding & Treating Ataxia), NANOS, Orlando, FL
- Apr 2008 Invited Lecturer, Ataxia Update Part I, AAN Annual Meeting, Chicago, IL
- Apr 2008 Invited Lecturer, ("RNAi as Therapy for Age-Related Neurodegenerative Disease"), Grand Rounds, Cleveland Clinic, Cleveland, OH
- Apr 2008 Invited Lecturer, full-day Course "Genetics in Neurology," (Dynamic Repeat Expansion Diseases) AAN Annual Meeting
- Apr 2009 American Academy of Neurology Annual Meeting, Seattle, WA:  
Director, "Update on Ataxias," Breakfast Seminar Course  
Lecturer, "Genetics in Neurology," All day course

- Co-chair, Session S29: Neurogenetics, Science Committee & Scientific Program Subcommittee  
Frontiers Plenary Lecturer, "Toward Therapies for Polyglutamine Diseases"
- Mar 2009 Facilitator, SCA3, Birds of a Feather, National Ataxia Foundation 52<sup>nd</sup> Annual Meeting, Seattle, WA
- Apr 2009 General Session Speaker, "Polyglutamine Ataxias"  
Co-chair, Session V: Pathogenesis of MJD  
Lecture, "MJD: Discussing the Mechanistic Hypotheses," International Workshop on Machado-Joseph Disease, S. Migule, Azores
- June 2009 Invited lecture, "The Genetics of Movement Disorders: Tools & Techniques"  
Parallel Session Chair, "New Horizons in Parkinson's disease"  
13<sup>th</sup> International Congress, The Movement Disorder Society, Paris, France
- Oct 2009 Invited lecture, "Recent Advances/Breakthroughs in the Pathogenesis of Hyperkinetic Movement Disorders," Special Interest Groups: Movement Disorders, ANA 134<sup>th</sup> Annual Meeting, Baltimore, MD
- Mar 2010 Speaker, "SCA3: An Update," Ataxia Investigator's Meeting, Chicago, IL
- Mar 2010 Facilitator, SCA3, "Birds of a Feather" session, General Session Speaker, "RNAi Research". National Ataxia Foundation, 53rd Annual Meeting, Chicago, IL
- May 2010 Speaker, "Update on Amyloid: Toward Understanding Pathogenesis and Preventive Therapies," and "Update on Other Dementias: What to do when it's not AD," 25<sup>th</sup> Annual Alzheimer's Disease Symposium, East Tennessee State University
- June 2010 Chair, Translational Aspects of Proteolysis in Neurodegenerative Diseases, Speaker, "Protein Quality Control in Polyglutamine Neurodegenerative Diseases: Insights Leading Toward Therapies," Satellite Program of the FENS, Maastricht, The Netherlands
- Nov 2010 Speaker, "Polyglutamine disorders: Toward understanding the role of "normal" protein function in disease", IBMC INEB Mini Symposium, Porto, Portugal
- Feb 2011 Speaker, "Alzheimer's Research and the Program for Positive Aging", The Michigan Seminars in Florida, Naples, FL
- Mar 2011 Speaker "Update on Research", The Chesapeake Chapter of the National Ataxia Foundation, Rockville, MD
- Mar 2011 Speaker, "Birds of a Feather General Session, National Ataxia Foundation Annual Members meeting, Los Angeles, CA
- Mar 2011 Speaker, "Research Update in Ataxia", National Ataxia Foundation Annual Members meeting, Los Angeles, CA
- June, 2011 Invited featured speaker, Gordon Research Conference, "CAG Triplet Repeat Disorders," Lucca, Italy
- August, 2011 Invited featured speaker, Gordon Research Conference, "The Cerebellum," New London, New Hampshire

***Other Invited Lectures:***

- Feb 1996 Department of Neurology, University of Rochester, Rochester, NY

May 1996 Department of Neurology, Ohio State University, Columbus, OH  
 June 1996 Departments of Neuroscience and Neurology, University of North Carolina  
 Aug 1996 Department of Neurology, University of Pennsylvania, Philadelphia, PA  
 Oct 1996 Department of Neurology, University of Iowa, Iowa City, IA  
 Apr 1997 Department of Pharmacology, University of Pennsylvania, Philadelphia, PA  
 Oct 1997 Neurology Update Symposium, U of Iowa, College of Medicine, Iowa City, IA  
 Nov 1997 Department of Neurology, University of Pennsylvania, Philadelphia, PA  
 Nov 1997 Department of Neuroscience, University of Iowa, Iowa City, IA  
 Nov 1997 Department of Neurology, Ohio State University, Columbus, OH  
 Dec 1997 Grand Rounds, Department of Neurology, University of Iowa, Iowa City, IA  
 Jan 1998 Brain Research Institute, Niigata University, Niigata, Japan  
 Oct 1998 Department of Pediatrics, University of Iowa, Iowa City, IA  
 Feb 1998 Department of Physiology, University of Iowa, Iowa City, IA  
 Mar 1999 Department of Biochemistry, University of Iowa, Iowa City, IA  
 Mar 1999 Department of Genetics, University of Umea, Sweden  
 Mar 1999 Brain Awareness Week Symposium, University of Iowa, Iowa City, IA  
 Aug 1999 Keynote address, MSTP, Univ of Iowa, Iowa City, IA  
 Sep 1999 Annual Meeting, Central States Neurological Research Association  
 Oct 1999 University of Iowa Foundation, Iowa City, IA  
 Jan 2000 Mayo Clinic Jacksonville, Jacksonville, FL  
 Oct 2000 "Genetics of Ataxia" Neurogenetics Course, New York University Medical Center, New York, NY  
 Oct 2000 Department of Neurology (Residency program), University of Pennsylvania, Philadelphia, PA  
 Feb 2001 Department of Biochemistry, Univ of Nebraska Medical Center, Omaha, NE  
 Feb 2001 Grand Rounds, Internal Medicine, University of Iowa, Iowa City, IA  
 Feb 2001 Neuroscience Training Program, University of Iowa, Iowa City, IA  
 Mar 2001 Department of Physiology Workshop Series, Univ of Iowa, Iowa City, IA  
 June 2001 SUMER Research Program Seminar Series, Univ of Iowa, Iowa City, IA  
 Aug 2001 Keynote Speaker, Iowa-Northwestern Joint Medical Scientist Training Program, Starved Rock State Park, IL  
 Sep 2001 Grand Rounds, Ohio State Univ, Department of Neurology, Columbus, OH  
 Dec 2001 Genetics Institute, Duke University, Durham, NC  
 Jan 2001 Buck Institute for Aging Research, Marin County, CA  
 Mar 2002 Weill Medical School at Cornell University, New York, NY  
 Apr 2002 Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY  
 May 2002 Neurosurgery Department, University of Iowa, Iowa City, IA  
 July 2002 Secondary Student Summer Research Program, Iowa City, IA  
 Sep 2002 Genetics Program Annual Retreat, Iowa City, IA  
 Sep 2002 Boston University, Boston, MA  
 Sep 2002 Fall River Annual Machado-Joseph disease Clinic  
 Oct 2002 Grand Rounds, Department of Neurology, University of Iowa

Oct 2002 Keynote Speaker, Annual Meeting, Indiana Chapter of Huntington's Disease Society of America

Nov 2002 Washington University, St Louis, Dept of Cell Biology, St. Louis, MO

Nov 2002 Northwestern University, Dept of Neurology, Chicago, IL

Dec 2002 RNAi Workshop, Hereditary Disease Foundation, Boston, MA

Jan 2003 Molecular Biology Graduate Program, University of Iowa, Iowa City

Apr 2003 Refresher Course for the Family Physician, Univ of Iowa, Iowa City, IA

Apr 2003 University of Chicago, Dept Neurology, Chicago, IL

June 2003 Invited Lecturer, The Great Plains States Society for Molecular Biology and Genetics, Omaha, NE

Sep 2003 Invited Lecturer, Pharmacology Department, Univ of Iowa, Iowa City, IA

Nov 2003 Invited Lecturer, Neurosurgery Department, Univ of Iowa, Iowa City, IA

Dec 2003 Invited Lecturer, Neurology Department, IUPUI Medical Center, Indianapolis, IN

Apr 2004 Invited Lecturer, Division of Genetics, University of Tuebingen, Germany

Apr 2004 Invited Lecturer, University of Minnesota, Minneapolis, MN

May 2004 Invited Lecturer, University of Frankfurt, Germany

May 2004 Invited Lecturer, University of Luebeck, Germany

Sep 2004 Invited Lecturer, Dept. Pharmacology, St. Louis University, St Louis, MO

Sep 2004 Invited Lecturer, Dept. Biochemistry, University of Medicine and Dentistry of New Jersey, Newark, NJ

Nov 2004 University of Chicago, Department of Human Genetics, Chicago, IL

Jan 2005 Invited Lecturer, Department of Neurology, University of Chicago, IL

Mar 2005 Invited Lecturer, Department of Neurology, UMDNJ, New Brunswick, NJ

Mar 2005 Invited Lecturer, Medical Student Research Club, University of Iowa

Apr 2005 Invited Lecturer, University of Mississippi Medical Center, Jackson Ms

June 2005 Invited Course lecturer, Banbury Conference on Neurodegenerative Diseases, Cold Spring Harbor, NY

July 2005 Featured Keynote Speaker, Minnesota Huntington's Disease Chapter Annual Meeting (Minneapolis, MN)

Sep 2005 Invited Lecturer, Waisman Center, Univ of Wisconsin Medical Center

Sep 2005 Featured Keynote Speaker, South Dakota Huntington's Disease Chapter (Sioux Falls, SD)

Sep 2005 Invited Lecturer, University of South Dakota Medical School (Topic: Huntington's Disease) (Vermilion, SD)

Dec 2005 Visiting Professor, University of Coimbra (Coimbra, Portugal) Total of six lectures:

- 1) "Neurodegenerative disease: diverse principles and mechanisms"
- 2) "Mechanisms of polyglutamine neurodegeneration"
- 3) "Huntington's Disease: A unique neuropsychiatric disorder"
- 4) "Protein quality control in neurodegenerative disease"
- 5) "RNA interference as potential therapy for neurological disease"
- 6) "Toward understanding polyglutamine neurodegeneration"

- Jan 2006 Invited Lecturer, "Update on RNAi as Therapy," Neural Repair Club, Children's Memorial Research Center, Northwestern University, Chicago
- Mar 2006 Invited Lecturer "Mechanisms of polyglutamine neurodegeneration," Emory University, Dept Neurology, Atlanta GA
- Mar 2006 Invited Lecturer "Toward Understanding Polyglutamine Neurodegeneration," Oregon Health Sciences Univ, Dept. Neurology, Portland, OR
- Apr 2006 Invited Lecturer "Toward Understanding Polyglutamine Neurodegeneration," Univ of Michigan, Dept. Neurology, Ann Arbor MI
- Apr 2006 Invited Lecturer "Toward Understanding Polyglutamine Neurodegeneration," Albert Einstein College of Medicine Dept. Neurology, NYC NY
- May 2008 Invited lecturer, "Update on polyglutamine diseases." Human Genetics Seminar, Dept of Human Genetics, Univ of Michigan, Ann Arbor, MI
- July 2006 Invited Lecturer, "A Long Strange (but Fun) Trip it's Been...", University of Iowa Summer Undergraduate MSTP Research (SUMR) Program Seminar Series
- Aug 2006 Invited Lecturer, "Update on Ataxia", Loyola University Medical Center, Chicago, IL
- Jan 2007 Invited Lecturer, "Spinocerebellar ataxias: An update," Washington University St Louis, MO
- June 2007 Grand Rounds, Harvard Combined Neurology, "Toward Understanding Pathogenesis of Polyglutamine Diseases," Boston Children's Hospital, MA
- Sep 2007 Neuroscience Graduate Program Retreat, Ann Arbor, MI
- Dec 2007 Grand Rounds, "Polyglutamine Neurodegeneration: New Insights from Ubiquitin Pathways," NINDS, NIH, Bethesda, MD
- Apr 2008 Invited lecturer, "Use of Stem Cells in Neurodegenerative Disease." Stem Cell Research & Disease: The Implications for Michigan, Center for Stem Cell Biology, University of Michigan, Ann Arbor, MI
- Aug 2008 Invited Lecturer, "Degenerative Disease Update," Michigan Neurological Association, "Mind Matters" conference, Boyne Falls, MI
- Sep 2008 Invited Lecturer, "Update on Ataxia", Thomas Jefferson University Hospital, Philadelphia, PA
- Sep 2008 Invited Lecturer, Grand Rounds, "Degenerative Ataxias: An Update," Indiana University School of Medicine, Indianapolis, IN
- Oct 2008 Invited lecturer, "The ABC's of Neurodegenerative Disorders: Alzheimer's Disease, Brain Health, & Cognition." Medical School Lunch & Learn, Alzheimer's: Memory & Aging" Series, University of Michigan, Ann Arbor, MI
- Oct 2008 Invited Lecturer, Neurobiology of Disease, Neuroscience Program, "Repeat Expansion disease," University of Iowa, Cedar Rapids, IA
- Oct 2008 Invited Lecturer, "Toward Understanding Polyglutamine Neurodegenerative Diseases," University of Iowa, Cedar Rapids, IA
- Nov 2008 Invited lecturer, "New Insights into the Causes of AD and Related Dementias." MADRC Community Appreciation Conference: Honoring 20 Years of Commitment to Research on Memory and Aging, Ann Arbor, MI
- Nov 2008 Invited Lecturer, Grand Rounds, "Toward Understanding & Treating Polyglutamine Neurodegenerative Diseases," Cornell Medical Center, NY

- Dec 2008 Educational Lecturer, Patient Conference, Department of Neurology, University of Michigan, Ann Arbor, MI
- Dec 2008 Invited lecturer, "Huntington Disease: Overview of Polyglutamine Neurodegeneration." Basic Neuroscience Conference, Department of Neurology, University of Michigan, Ann Arbor, MI
- Dec 2008 Invited Lecturer, American College of Neuropsychopharmacology, "Mechanisms Underlying Huntington's Disease," Scottsdale, AZ
- Jan 2009 Invited Lecturer, Grand Rounds, "Toward Understanding Polyglutamine Neurodegeneration," David Geffen School of Medicine at UCLA, Department of Neurology, Los Angeles, CA
- Feb 2009 Invited lecturer, Killam Seminar Series, "Toward Understanding Polyglutamine Neurodegeneration," Montreal Neurological Institute and Hospital, Quebec
- Feb 2009 Invited lecturer, "Perturbed Protein Homeostasis in Age-related Neurodegeneration: Insights from Polyglutamine Expansion Diseases," Biogerontology Seminars, University of Michigan, Ann Arbor, MI
- Feb 2009 Invited lecturer, Grand Rounds, "Toward Understanding & Treating Polyglutamine Neurodegeneration," Univ of Penn, Philadelphia, PA
- May 2009 Invited lecturer, "Toward Understanding Polyglutamine Neurodegeneration," University of South Florida, Tampa, FL
- June 2009 Presentation to Bardwell/Jakob Research Group, "Protein Misfolding Diseases," Dept of Biological Chemistry, Univ of Mich, Ann Arbor, MI
- July 2009 Panel Session Speaker, "Psychiatry/Medicine/Neurology: Collaboration or Competition?" 15<sup>th</sup> Annual Summer Research Institute in Geriatric Psychiatry, University of Michigan, Ann Arbor, MI
- Aug 2009 Grand Rounds, "An Update on Ataxia," Children's Hospital of Michigan, Wayne State University, Detroit, MI
- Sep 2009 Grand Rounds, "Toward Understanding & Treating Polyglutamine Diseases," Brown University, Providence, RI
- Sep 2009 Invited lecturer, "Toward Understanding Polyglutamine Neurodegeneration," Nephrology Basic Science Series, University of Michigan
- Oct 2009 Grand Rounds, "Toward Understanding and Treating Polyglutamine Diseases," Invited lecturer, "Toward Understanding Polyglutamine Neurodegeneration," University of Maryland, Baltimore, MD
- Oct 2009 Grand Rounds, "Toward Understanding & Treating Polyglutamine Neurodegeneration," Johns Hopkins University, Baltimore, MD
- Nov 2009 Veteran's Administration, Albany Medical Center, Albany, NY: Neuroscience Grand Rounds, "An Update on Dominantly Inherited Ataxias," Invited lecturer, "Toward Understanding Polyglutamine Neurodegeneration," Center for Neuropharmacology and Neuroscience
- Dec 2009 Basic Neuroscience Conference, "Neurogenetics: Part 1," Department of Neurology, University of Michigan
- Mar 2010 Speaker, "Update on Alzheimer disease and related dementias," Silver Club Programs, Family Liaison, Ann Arbor, MI
- Apr 2010 Speaker, "Advances in Alzheimer's Disease and Related Dementias," Mette Foundation, Ann Arbor MI

- Apr 2010 Speaker, "Advances in Assessment and Treatment of Alzheimer's Disease and Related Disorders," Toledo Chapter of the Alzheimer Association, Toledo, OH
- Apr 2010 Moderator, "Medical Conditions & Transportation" Panel, Transportation Research and Education Conference, Univ of Michigan M-CASTL
- May 2010 Invited lecturer, Weekly Colloquium, Burke Medical Research Institute, "Toward Understanding and Treating Polyglutamine Neurodegeneration," White Plains, NY
- May 2010 Invited lecturer, Grand Rounds, "Toward Understanding and Treating Polyglutamine Neurodegeneration," Atlanta, GA
- May 2010 Speaker, Seventh Annual Mental Health and Aging Conference, "Advances in Assessment and Treatment of Alzheimer's Disease and Related Disorders", East Lansing, MI
- June 2010 Educational Lecturer, Patient Conference, Department of Neurology, University of Michigan, Ann Arbor, MI
- Sep 2010 Invited lecturer, "Ataxia: A Reason for Hope", National Ataxia Foundation, Detroit Chapter, Walk & Roll, Detroit, MI
- Sep 2010 Invited lecturer, "New Insights into the Causes of AD and Related Dementias." MADRC Community Appreciation Conference: Ypsilanti, MI
- Sep 2010 Featured speaker, Michigan Seminars, "The Sources of Neurodegenerative Brain Diseases," University of Michigan, Ann Arbor, MI
- Feb 2011 Invited speaker, "Advances in Alzheimer's Disease Research and the Program for Positive Aging", Michigan Seminars in Florida, Naples, FL
- March 2011 Invited speaker, "Towards Understanding Polyglutamine Neurodegeneration" Dept. of Neurobiology, University of Alabama at Birmingham, Birmingham, AL
- June 2011 Invited Lecturer, Grand Rounds "Toward understanding and treating polyglutamine neurodegeneration". Department of Cognitive Neurology, University of Pennsylvania, Philadelphia, PA.
- Oct 2011 Invited speaker, Biogerontology Seminar about "Ubiquitin Pathways in Age-Related Neurodegeneration.", University of Michigan, Ann Arbor, MI

## Patents

Allele-Specific siRNA-Mediated Gene Silencing, P-No. 109361, 09/28/07.

## Bibliography

(Personal Statement on Scholarship available upon request)

### ***Peer-Reviewed Papers (from total of 115 papers listed in Pubmed):***

1. Byers S, Qasba P, **Paulson H**, Dym M. Immunocytochemical localization of alpha-lactalbumin in the male reproductive tract. Biol Reprod 1984;30:171-178.
2. **Paulson H**, Byers S, Dym M. Morphometric analysis of coated pits and vesicles in the proximal and distal caput epididymis. Biol Reprod 1985;32:191-202.
3. Claudio T, Green AW, Hartman D ...**Paulson H** (5/8)...Swedlund A (alphabetical listing of authors). Genetic reconstitution of functional acetylcholine receptor channels in mouse fibroblasts. Science 1987;238:1688-1694.

4. Claudio T, **Paulson H**, Hartman D, et al. Establishing a stable expression system for studies of Torpedo acetylcholine receptors. *Current Topics in Membrane Transport* 1988;33:219-247.
5. Claudio T, **Paulson H**, Green W, et al. Fibroblasts transfected with torpedo acetylcholine receptor beta, gamma, and delta subunit cDNAs express functional AChRs when infected with a packaged retroviral-alpha recombinant. *J Cell Biol* 1989;108:2277-2290.
6. Claudio T, Hartman D, Green W...**Paulson H** (5/6), Hayden D. Stable expression of multisubunit protein complexes in mammalian cells. *Nato ASI Series* 1989;H32:469-480.
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5. **Paulson H**, Rodriguez-Lebron E. Using RNA Interference to Silence the SCA3 Disease Gene. *Generations*, National Ataxia Foundation, Fall 2009;37(3):31-32.

**Selected Abstracts:**

**(Partial list, past 4 years only)**

1. Gordon KL, Bode N, **Paulson HL**, Glenn K, Gonzalez-Alegre P. Exploring torsin degradation: potential role in DYT1 dystonia pathogenesis and therapeutics. Accepted for presentation at Gordon Research Conference on Autophagy, January 2008
2. Winborn BJ, Travis SM, Todi SV, Cohen RE, **Paulson HL**. Ubiquitin chain editing by the neurodegenerative disease protein Ataxin-3. Platform presentation at Midwest Stress Response at Northwestern University, Evanston, IL, January 19, 2008.
3. Winborn BJ, Travis SM, Todi SV, Xu P, Peng J, Cohen RE, **Paulson HL**. The deubiquitinating enzyme ataxin-3 edits K63-linkages in mixed linkage ubiquitin chains. Platform presentation and poster at Graduate Student Symposium at St. Jude Children's Hospital, Memphis, TN, March 25-29, 2008.
4. Todi SV, Winborn BJ, Williams AJ, **Paulson HL**. Ubiquitination of the polyglutamine disease protein ataxin- 3 enhances its activity as a deubiquitinating enzyme. Annual Meeting of the American Society for Biochemistry and Molecular Biology. San Diego, California, April 5-9, 2008.
5. Winborn BJ, Travis SM, Todi SV, Xu P, Peng J, Cohen RE, **Paulson HL**. The deubiquitinating enzyme ataxin-3 edits K63-linkages in mixed linkage ubiquitin chains. Platform presentation and poster at American Society of Biochemistry and Molecular Biology Annual Meeting, San Diego, CA, April 5-9 2008.
6. Harris GM, Williams A, Gonzalez-Alegre P, **Paulson H**. Influence of C-terminal splicing on the enzymatic activity and aggregation of ataxin-3, a polyglutamine disease protein. Presented at the National Ataxia Foundation's Ataxia Investigators' Meeting, Las Vegas, NV, March 25th-28, 2008.
7. Beglinger LJ, Adams WH, **Paulson HL**, et al. A randomized, controlled trial of atomoxetine for cognitive dysfunction in early Huntington's disease. Huntington Study Group (HSG), Clinical Research Symposium, 2008.
8. Rodriguez-Lebron E, **Paulson H**. Development of an RNAi Strategy for AD, American Academy of Neurology, Chicago, IL, April 14-20, 2008.
9. Scaglione KM, **Paulson HL**. Identification of ataxin-3 as a novel regulator of the protein quality control E3, CHIP. FASEB Summer Research Conferences, Ubiquitin and Cellular Regulation talk, Saxton's River, VT, June 15-20, 2008.
10. Todi SV, Winborn BJ, Scaglione KM, **Paulson HL**. Ataxin-3 ubiquitination enhances its activity as a deubiquitinating enzyme. Summer Conference on Ubiquitin and Cellular Regulation. Saxtons River, Vermont, 2008.
11. Scaglione KM, Crawford BD, Todi SV, Winborn BJ, **Paulson HL**. Identification of ataxin-3 as a novel regulator of the protein quality control E3, CHIP. Summer Conference on Ubiquitin and Cellular Regulation. Saxtons River, Vermont, 2008.
12. Todd PK, Pandey U, **Paulson HL**, Taylor JP. HDAC over-expression leads to CGG-specific repression of transcription and phenotypic rescue in a Drosophila model of Fragile X Tremor Ataxia Syndrome. 6<sup>th</sup> International Conference on Unstable Microsatellites in Human Disease, January 2009 **\*Selected for a workshop presentation.**
13. Todd PK, McCray B, Nedelsky N, Oh S-Y, **Paulson HL**, Taylor JP. The role of the Ubiquitin Proteasome System and the Autophagy in the Pathophysiology of Fragile X Tremor Ataxia

- Syndrome. 6<sup>th</sup> International Conference on Unstable Microsatellites in Human Disease, January 2009. **\*Received an excellence in research award.**
14. Costa MC, Tomé RJ, **Paulson HL**, Macedo-Ribeiro S, Logarinho E, Maciel P. Ataxin-3: a role in the SCF complex? Keystone Symposia, Neurodegenerative Diseases: New Molecular Mechanisms (J5), Keystone, Colorado, USA, 17-22 February, 2009. Poster 120.
  15. Scaglione KM, Zavodszky E, Todi S, **Paulson HL**. Deciphering the ubiquitination cycle: the de ubiquitinating enzyme ataxin-3 regulates the chaperone-dependent ligase CHIP. Neurodegenerative Diseases: New Molecular Mechanisms Keystone Symposia talk, Keystone, CO, USA, February 17-22, 2009.
  16. Costa MC, Bajanca F, Rodrigues A-J, Tomé RJ, **Paulson HL**, Macedo-Ribeiro S, Logarinho E, Maciel P. Ataxin-3 plays a role in myogenic differentiation through regulation of integrin subunits. V International workshop on MJD, Azores, 1-3 April, 2009. Poster pg.104.
  17. Scaglione KM, Zavodszky E, Rodriguez E, Todi S, **Paulson HL**: Ube2w and ataxin-3 regulate CHIP-mediated protein degradation. The Ubiquitin Family Cold Spring Harbor Meeting, Cold Spring Harbor, NY, USA, April 21-25, 2009.
  18. Todd PK, Oh S-Y, Taylor JP, **Paulson HL**. The role of Autophagy and the Ubiquitin Proteasome System in the Pathophysiology of Fragile X Tremor Ataxia Syndrome, Neuroscience Day, University of Michigan. **\*Received "Best Basic Science Poster" award.**
  19. Todi SV, Scaglione KM, **Paulson HL**. Understanding ubiquitin-dependent activation of the deubiquitination enzyme and polyglutamine disease protein, ataxin-3. Meeting on the Ubiquitin Family, Cold Spring Harbor Laboratories, NY, New York, 2009.
  20. Shakkottai VG, Dell'Orco JM, **Paulson HL**, Alterations in intrinsic firing of Purkinje neurons precedes neurodegeneration in a mouse model of SCA3. Gordon Research Conference on CAG Triplet Repeat Disorders, Waterville Valley, NH, 2009.
  21. Heng MY, Duong DK, Albin RL, Hunter J, Osmand A, **Paulson HL**, Detloff PJ. Early autophagic response in a novel knock-in model of Huntington Disease. Gordon Research Conference on CAG Triplet Repeat Disorders, Waterville Valley, NH, 2009.
  22. Rodriguez-Lebron E, Tsou WL, Peron TM, **Paulson HL**. Optimizing RNAi as potential therapy for SCAs. Gordon Research Conference on CAG Triplet Repeat Disorders, Waterville Valley, NH, 2009.
  23. Todd PK, Ackall FA, **Paulson HL**, Dowling J. Towards a Zebrafish model of Myotonic Dystrophy. ICDM-7, Wurzburg, Germany, Sept 2009. **\*Selected for meeting wide presentation.**
  24. Todd PK, Taylor JP, **Paulson HL**. HDAC over-expression or HAT inhibition lead to CGG-specific repression of transcription and phenotypic rescue in *drosophila* model of Fragile X Tremor Ataxia Syndrome. ASHG Annual Meeting, Waikiki, HI, Oct 2009. **\*Selected for platform presentation (~10% of submitted abstracts).**
  25. Costa MC, Decker S, Gestwicki J, **Paulson HL**. A cell-based screen for small molecules that reduce steady state levels of the polyglutamine disease protein, ataxin-3. Society for Neuroscience, Chicago, IL, 2009.
  26. Tsou WL, Soong BW, **Paulson HL**, Rodriguez-Lebron E. Developing splice-specific RNAi as potential therapy for SCA6. Society for Neuroscience, Chicago, IL, 2009.
  27. Tsou WL, Soong B, **Paulson HL**, Rodriguez-Lebron E. Splice-specific miRNA-based RNAi targeting of the pathogenic CACNA1A transcript. Ataxia Investigator's Meeting, Chicago, IL, March 9-11, 2010.
  28. Rodriguez-Lebron E, Peron TM, Tsou WL, Fischer SV, **Paulson HL**. miR-based RNAi targeting of ataxin-3 expression as a potential therapy for SCA3. Ataxia Investigator's Meeting, Chicago, IL, March 9-11, 2010.

29. Tada M, Kerppola TK, Decker SJ, Costa MC, Todi SV, **Paulson HL**. Detection of polyglutamine protein oligomers in living cells using protein-fragment complementation assays. Ataxia Investigator's Meeting, Chicago, IL, March 9-11, 2010.
30. Todd PK, Oh S-Y, Chang J, Pandey U, DiProspero N, Taylor JP, **Paulson HL**. Histone Deacetylases suppress CGG repeat-induced neurodegeneration via transcriptional silencing in models of Fragile X Tremor Ataxia Syndrome. Ataxia Investigators Meeting, Chicago, IL Mar 2010.
31. Todi SV, Blount JR, Scaglione KM, Basrur V, Elenitoba-Johnson K, **Paulson HL**. The deubiquitinating activity and cellular functions of the SCA3 disease protein ataxin-3 are directly regulated by ubiquitination. Ataxia Investigators Meeting, Chicago, IL Mar 2010.
32. Shakkottai VG, Dell'Orco JM, do Carmo Costa M, Sankaranarayanan A, Wulff H, **Paulson HL**. Rescue of Purkinje neuron depolarization block improves the motor phenotype in a mouse model of Spinocerebellar Ataxia type 3. Ataxia Investigators Meeting, Chicago, 2010.
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35. Todd PK, Ackall FY, **Paulson HL**, Dowling, JJ. A Zebrafish Model of Myotonic Dystrophy. 9<sup>th</sup> Conference on Zebrafish Genetics and Development. Madison, WI, June 2010.
36. Todd PK, Pandey U, Oh S-Y, Cheng J, DiProspero N, Taylor JP, **Paulson HL**. Histone deacetylases suppress CGG repeat induced neurodegeneration in *Drosophila* model of FXTAS. National Fragile X Foundation meeting, Detroit, MI. July 2010.
37. Oh S-Y, Taylor JP, **Paulson HL**, Todd PK. The role of Protein Quality Control Pathways in FXTAS Pathogenesis. National Fragile X Foundation meeting, Detroit, MI. July 2010.
38. Tsou W-L, **Paulson HL**, Soong B-W, Rodríguez-Lebrón E. A Novel Therapeutic Approach for SCA6: Splice-Isoform-Specific RNA Interference. American Academy of Neurology Annual Meeting, Waikiki, HI, April 9-15, 2011
39. Tada M, McQuade T, Kerppola T, Decker S, **Paulson H**. A Drug Screen Based on Protein-Fragment Complementation Identifies Drugs That Reduce Early Oligomer Formation by the SCA3 Polyglutamine Disease Protein. American Academy of Neurology Annual Meeting, Waikiki, HI, April 9-15, 2011.
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43. Costa MC, Ashraf N, Ouyang M, Fischer S, Tada M, Gestwicki J, **Paulson HL**. Developing MJD therapeutics: small molecules that reduce levels of ataxin-3. Gordon Research Conference, CAG Triplet Repeat Disorders, Barga, Italy, June 5-10, 2011.

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3. **Paulson, H**. Review of Mechanisms of Glutamine Repeat Diseases, Perutz M, Harper P, eds., in Trends Neurosci. 24:547, 2001.

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1. Hafez Parast M, Fisher E. Journal club: Polyglutamine diseases. Trends in Genetics 15:222 (review of Chai et al., Hum Mol Genet 1999;8:676-682).
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3. Holmes B. Gene therapy may switch off Huntington's. The New Scientist: News (NewScientist.com) 3/13/2003.
4. Spinney L. Top Stories: Interfering with inherited disease. BioMedNet Today's News Section (bmn.com), 4/7/2003.
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7. Lawrence D. Investigators explore selective silencing of disease genes. Published October 15<sup>th</sup> on NINDS web site ([http://www.ninds.nih.gov/news\\_and\\_events/news\\_article\\_gene\\_silencing.htm](http://www.ninds.nih.gov/news_and_events/news_article_gene_silencing.htm)), 2003.
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13. Engelhardt J, Marden J, Harraz M, Williams A, Nelson, K, Luo M, Paulson HL, Genes That Improve Survival In Mice With ALS Identified, University of Iowa (2007, September 17). ScienceDaily. Retrieved December 7, 2007, from <http://www.sciencedaily.com/releases/2007/09/070914090704.htm>.
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17. Researchers Discover Way to Block Neurodegeneration in an Adult Form of Fragile X Syndrome. *ScienceDaily* (Dec. 13, 2010) (commentary on Todd et al PLoS Genetics (2010) (<http://www.sciencedaily.com/releases/2010/12/101213140952.htm>))