

CURRICULUM VITA

Jacqueline N. Crawley, Ph.D.

Distinguished Professor Emeritus
MIND Institute
Department of Psychiatry and Behavioral Sciences
University of California Davis School of Medicine
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Sacramento, CA 95817
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EDUCATION

1967-71 B.A., Biology, University of Pennsylvania, Philadelphia, PA
1971-76 Ph.D., Zoology, University of Maryland, College Park, MD
1976-79 Postdoctoral, Neuropsychopharmacology, Yale University School of Medicine, New Haven, CT

PROFESSIONAL EMPLOYMENT

2020 – present Distinguished Professor Emeritus, MIND Institute
Department of Psychiatry and Behavioral Sciences
University of California Davis School of Medicine

2012-2020 Robert E. Chason Endowed Chair in Translational Research, MIND Institute
Distinguished Professor, Department of Psychiatry and Behavioral Sciences
University of California Davis School of Medicine

2003-2012 Chief, Laboratory on Behavioral Neuroscience
Intramural Research Program,
National Institute of Mental Health, Bethesda, MD

1996-Present Adjunct Professor, Department of Pharmacology
Georgetown University School of Medicine, Washington, DC

2003-2008 Adjunct Professor, Department of Psychiatry
Research Professor, Department of Psychology
University of North Carolina School of Medicine at Chapel Hill

2001-2003 Chief, Section on Behavioral Genomics
IRP, National Institute of Mental Health, Bethesda, MD

1993-2000 Chief, Section on Behavioral Neuropharmacology
Experimental Therapeutics Branch, Intramural Research Program
National Institute of Mental Health, Bethesda, MD

1993-94 Acting Deputy Director, Intramural Research Program
National Institute of Mental Health, Bethesda, MD

- 1983-93 Chief, Unit on Behavioral Neuropharmacology, Tenured 1988
Clinical Neuroscience Branch/Experimental Therapeutics Branch National Institute of Mental Health, Bethesda, MD
- 1981-83 Senior Neurobiologist, Central Research and Development
E.I. DuPont de Nemours and Company, Wilmington, DE
- 1979-81 Pharmacology Research Associate Program Training Fellow
Clinical Psychobiology Branch, National Institute of Mental Health,
and National Institute of General Medical Sciences, Bethesda, MD
- 1976-79 Biological Sciences Training Program Fellow
Neuropsychopharmacology Unit, Department of Psychiatry
Yale University School of Medicine, New Haven, CT

AWARDS AND HONORS

- 2019 Dean's Award for Excellence in Research, University of California Davis School of Medicine
- 2019 Fellow, International Society for Autism Research
- 2018 Chair, Section on Neuroscience, American Association for the Advancement of Science
- 2017 Plenary Lecture, Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities
- 2017 Distinguished Lecture, University of California Los Angeles Center for Autism Research and Treatment
- 2016 Elsevier Distinguished Lecture Award, Developmental Neurotoxicology Society
- 2015 International Society for Autism Research Scientific Program Co-Chair Award
- 2011 Distinguished Scientist Award, International Behavioural and Neural Genetics Society
- 2011 Special Achievement Award, National Institute of Mental Health
- 2011 Fellow, American Association for the Advancement of Science
- 2010 International Meeting for Autism Research Keynote Lecture
- 2010 National Institute of Mental Health Director's Merit Award
- 2010 President, International Behavioural and Neural Genetics Society
- 2009 Autism Awareness Day Keynote Award, University of Albany
- 2008 Howard Hughes Medical Research Institute Preceptor Award,
Student Internship Program
- 2005 Fleur Strand Lecture Award, Summer Neuropeptide Conference

- 2005 Marjorie A. Myers Lifetime Achievement Award, International Behavioral Neuroscience Society
- 2005 Howard Hughes Medical Research Institute Preceptor Award, Student Internship Program
- 2004 Society for Neuroscience Service Award, Membership Committee Co-Chairperson, 2001-2004
- 2003 Gladstone Institute of Neurological Disease Distinguished Scholar Award
- 2002 NIMH Director's Merit Award
- 2001 U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health, Special Act or Service Award in Recognition and Appreciation of Special Achievement
- 2000 Howard Hughes Medical Research Institute Preceptor Award, Student Internship Program
- 2000 ISI Citation Classic
Crawley and Corwin, Biological actions of cholecystokinin, Peptides 14:731-755, 1994
- 1999 National Institute of Mental Health Special Service Award
- 1999 Summer Neuropeptide Conference Organizers Award
- 1998 Howard Hughes Medical Research Institute Student and Teacher Internship Award
- 1993 Mathilde Solowey Lecture Award in Neuroscience
- 1993 National Institute of Mental Health Special Service Award
- 1979 Pharmacology Research Associate Training award, National Institute of General Medical Sciences
- 1976 Biological Sciences Training Program Research award, Yale University School of Medicine
- 1975 Graduate Research Fellowship, University of Maryland
- 1971 Graduate Teaching Fellowship, University of Maryland
- 1967 Mayor's Scholarship, University of Pennsylvania

PROFESSIONAL SERVICE: EDITORIAL BOARD MEMBERSHIPS

- Autism Research* (2007-present)
- Annali dell'Istituto Superiore di Sanità* (2011-present)
- Behavioral Neuroscience* (2002-2009)
- Behavioural Brain Research* (2003-present)

Brain Plasticity (2014-present)
Current Opinion in Behavioral Sciences (2013-present)
Current Psychiatry Reviews (2004-present)
Depression and Anxiety (1994-2004)
Drug Discovery Today: Disease Mechanisms (2004-2010)
European Journal of Pharmacology (1994-2002)
Frontiers in Behavioral Neuroscience (2007-2010)
Genes, Brain and Behavior (2001-present)
Journal of Molecular Neuroscience (1999-present)
Journal of Neuroendocrinology (1988-1996)
Journal of Pharmacology and Experimental Therapeutics (1999-2006)
Journal of Translational Neuroscience (2017-present)
Molecular Autism (Associate Editor, 2016-present)
Neuropeptides (Editor-in-Chief 1997-2011)
Neuropeptides (2011-present)
Neuropsychopharmacology (1999-2002)
Open Journal of Neuroscience (2011-present)
The Open Pharmacology Journal (2007-2014)
The Open Pharmaceutical Sciences Journal (2014)
Pharmacology Biochemistry and Behavior (1988-present)
Psychopharmacology (1999-2009)
Reviews in the Neurosciences (2005-present)
Trends in Pharmacological Sciences (1990-present)
Wiley Current Protocols in Neuroscience (1997-2004)

PROFESSIONAL SERVICE: RECENT MANUSCRIPT REVIEWING FOR SCIENTIFIC JOURNALS

Autism Research, Behavioral Neuroscience, Behavioural Brain Research, Biological Psychiatry, Cell, Genes Brain and Behavior, Journal of Neurodevelopmental Disorders, Journal of Pharmacology and Experimental Therapeutics, Learning and Memory, Molecular Autism, Molecular Psychiatry, Nature, Nature Genetics, Nature Neuroscience, Neuron, Neuropeptides, Neuropsychopharmacology, Pharmacology Biochemistry and Behavior, Psychopharmacology, Science, Science Translational Medicine, Trends in Pharmacological Sciences

PROFESSIONAL SERVICE: GRANT REVIEWING

2015 – present Member, NIH Developmental Brain Disorders Study Section

2016 – present Member, NIH New Innovator Awards grant reviewer

Ad hoc National Institutes of Health Center for Scientific Review Eureka Awards, NIH New Innovator Awards, Special Emphasis Panels NIMH, NICHD, NIDA, NIAAA, NIA, NSF, VA

Autism Speaks Weatherson pre-doctoral fellowships, Canadian Medical Research Council, European Science 2000, Brain Canada, United Kingdom Medical Research Council

- 2009 – present Brain and Behavior Research Foundation NARSAD Young Investigator and Distinguished Investigator Awards
- 1989-1992 Panel Member, National Science Foundation
Neural Mechanisms of Behavior Review Panel

PROFESSIONAL SERVICE: SCIENTIFIC SOCIETIES

- 2017-2019 Chair-elect, Chair and past-Chair, Neuroscience Section V, American Association for the Advancement of Science
- 2014-2015 Co-Chair, Program Committee, International Meeting for Autism Research
- 2011-2014 Member, Awards Committee, International Behavioural and Neural Genetics Society
- 2009-present Member, Scientific Council, National Alliance for Research on Schizophrenia and Depression (NARSAD; Brain and Behavior Research Foundation)
- 2009-2010 President, International Society for Behavioural and Neural Genetics (IBANGS)
- 2007-2008 Chair, Program Committee, International Behavioral Neuroscience Society (IBNS)
- 2007-2009 Member, Program Committee, International Meeting for Autism Research (IMFAR)
- 2004-2006 Member, Program Committee, American College of Neuropsychopharmacology (ACNP)
- 2004 Co-Organizer, Galanin 2004, Third International Conference on Galanin and its Receptors, San Diego, CA
- 2003–2005 Member, Board of Trustees, Association for Assessment and Accreditation of Laboratory Animal Care International, Representative from the International Behavioral Neuroscience Society
- 2001-2004 Co-Chair, Membership Committee, Society for Neuroscience
- 2003-2007 Member, Program Committee, International Behavioral Neuroscience Society
- 2000-2001 President, International Behavioral Neuroscience Society
- 2000-2001 Member, Program Committee, International Behavioural and Neural Genetics Society
- 1993-1998 Organizer, Summer Neuropeptide Conference annual meetings
- 1998-2004 Member, Membership Committee, Society for Neuroscience
- 1995-2004 Member, Council, International Behavioral Neuroscience Society
- 1994-present Member, Council, International Neuropeptide Society
- 1996-1999 Member, Committee on the Use of Animals, member, American College of Neuropsychopharmacology

- 1991-1994 Member, Credentials Committee, American College of Neuropsychopharmacology
- 1987 President, Potomac Chapter, Society for Neuroscience

PROFESSIONAL SERVICE: UNIVERSITY AND INTRAMURAL

- 2020 – present Member, COVID Relaunch Committee, MIND Institute, University of California Davis
- 2020 – present Member, University of California Green New Deal Coalition
- 2018 – present Member, MIND Institute Distinguished Lecturer Selection Committee
- 2017 – 2018 Member, Psychiatry Department Chair Search Committee, University of California Davis School of Medicine
- 2017 – present Member, T32 Learning and Memory Training Program, University of California Davis
- 2016-2017 Chair, Infrastructure Committee, MIND Institute, University of California Davis
- 2015-present Member, Faculty Membership Committee, MIND Institute
- 2015 Member, RFA Review Committee for Campus Research Core Facilities University of California Davis
- 2013-present Director, Rodent Behavior Core, MIND Institute, University of California Davis
- 2013-present Member, Executive Committee, Intellectual and Developmental Disabilities Research Center, MIND Institute, University of California Davis
- 2013-present Member, T32 Autism Research Training Program, MIND Institute, University of California Davis
- 2013-present Member, Internal Advisory Committee, Mouse Biology Program, University of California Davis
- 2013-present Faculty member, Neuroscience Graduate Group, University of California Davis
- 2012-present Member, Executive Committee, MIND Institute, University of California Davis
- 2012-present Internal reviewer, junior faculty grants, Department of Psychiatry and Behavioral Sciences, University of California Davis
- 2007-2012 Chair, Behavior Subcommittee, NIH Neuroscience Seminar Series
- 2007-2012 Member, NIMH IRP Tenure and Promotions Committee
- 2006-2012 Member, Trans-NIH IRP Initiatives Committee
- 2004-2012 Member, Behavioral Investigator Review Panel, NIH Tenure Committee
- 2000-2012 Consultant, Porter Neuroscience Research Center building design

- 2000-2012 Member, NIH Committee for Priority Setting for Mouse Genomic and Genetic Resources, member
- 1999-2003 Member, NIMH IRP Tenure and Promotions Committee
- 1998-2002 Member, NIH Behavioral and Social Sciences Research Coordinating Committee, Intramural Representative
- 1987-1992 Member, NIMH Animal Care and Use Committee member
 1991-1992 Chair, NIMH Animal Care and Use Committee
 1998-1999 Chair, NIMH Animal Care and Use Committee
- 1990-2002 NIMH Representative, 10A Animal Facilities Users Committee
- 1990-2012 Member, NIMH Women Scientists Group
 1991-1992 Chair, NIMH Women Scientists Group
 1994-1996 Chair, NIMH Women Scientists Group
- 1994-1996 NIMH Representative, NIH Women Scientists Advisory Committee
- 1997-1999 Chair, Working Group on Behavioral Assessment of Mutant Mice, NIH Office of Behavioral and Social Sciences Research
- 1997-1998 Representative on Behavioral Studies, Mouse Phenotyping Facility Proposal, NIH Shared Resources Subcommittee of Scientific Directors
- 1996-2011 Member, NIMH Search Committees for Tenure-Track and Senior Investigators
- 1996-2011 Member, NIAAA Search Committee for Tenure-Track Investigators (Chair in 1996)
- 2003 Member, NIDA Search Committee for Tenure-Track Investigators

EXTERNAL MENTORING

- 2018 – 2020 Secondary mentor to Ayanna Wade, UC Davis Neuroscience graduate student, NIH F32 Award,
- 2015 – present Mentor, NIH K08 Award, Prefrontal corticothalamic circuits in autism. PI Audrey Brumback, University of California San Francisco
- 2013 – 2017 Secondary mentor to Annie Vogel-Ciernia, postdoctoral fellow, UC Davis MIND Institute NIH NICHD Autism Research Training Program
- 2008 – 2011 External mentor, NIH K Award, Murine genetic models of autism, PI Jeremy Veenstra-VanderWeele, Vanderbilt University
- 2006-2008 External mentor, NARSAD Award, PI Mark Zylka, Neuroscience Center, University of North Carolina

TEACHING

- 2015 Course organizer, What's Wrong With My Mouse, journal club instructor of record, Neuroscience Graduate Program, University of California Davis
- 2012-present Lecturer, T32 Autism Research Training Program course, MIND Institute, University of California Davis School of Medicine
- 2004-2008 Member, Curriculum in Neurobiology, Graduate training program, University of North Carolina at Chapel Hill
- 2004-2007 Lecturer, Behavioral Neuroscience, University of North Carolina Department of Psychology
- 2002-present Lecturer, Neurobiology of Mental Illness, FAES Graduate Program at NIH
- 1988-2011 Lecturer, George Washington University Graduate Course in Neuropharmacology
- 1991-2008 Lecturer, Georgetown University Graduate Course in Neuropharmacology
- 1979-1986 Lecturer, New Tools in Biological Psychiatry, FAES Graduate Program at NIH

MEMBER OF Ph.D. DISSERTATION COMMITTEES (completion date)

- 2021 Amy Cheung, University of Massachusetts
- 2009 Rose-Marie Karlsson, Karolinska Institute-NIH graduate program
- 2008 Edward Billingslea, Georgetown University
- 2008 Elizabeth Hess, University of North Carolina
- 2000 Ruth Bariantos, George Washington University
- 2000 David Ault, George Washington University
- 2000 Annika Thorsell, Karolinska Institutet
- 1998 Kimberly Simpson, Hahnemann University
- 1993 James Auta, Georgetown University
- 1992 Christian Heidebreder, University of Louvain, Belgium
- 1992 Muriel Derrain, University Renes Descartes, France
- 1991 Sharon Richardson, Howard University
- 1990 Linda Weiss-Wunder, University of Pennsylvania

SCIENTIFIC ADVISORY BOARDS

- 2020 – present Member, National Institute of Child Health and Human Development workgroup on database repositories
- 2019- present Member, European Quality in Preclinical Data Consortium (EQIPD)
- 2019 External Advisor, University of Nebraska Rodent Behavior Core
- 2017-present Member, Scientific Advisory Committee, Center for Neuroscience Research, Children's National Hospital Health Systems, Washington DC.
- 2017-2018 Member, External Advisory Committee, Waisman Center Intellectual and Developmental Disabilities Research Center, University of Wisconsin

- 2017 – present Member, Preclinical Animal Network, The Foundation for Prader-Willi Research
- 2015-present Member, External Advisory Board, Italian Association for Autism Research
- 2013-present Member, External Advisory Board, Harvard University Boston Children’s Hospital Intellectual and Developmental Disabilities Research Center
- 2012-2016 Member, External Scientific Advisory Committee, Innovative Medicines Initiative-European Autism Interventions, IMI EU-AIMS
- 2012-2017 Member, External Scientific Advisory Committee, NIH Knockout Mouse Project 2 and International Mouse Phenotyping Consortium
- 2012- 2017 Member, External Scientific Advisory Committee, Conte Center, Vanderbilt University
- 2012-2014 Member, External Scientific Advisory Committee, European Consortium on Synaptic Protein Networks in Neurological and Psychiatric Disorders (EUROSPIN)
- 2009-present Member, Scientific Council, Brain and Behavior Research Foundation (formerly National Alliance for Research on Schizophrenia and Depression)
- 2008-2013 Member, External Advisory Committee, Functional Assessment Core, Gladstone Institute, University of California San Francisco
- 2003 Member, Scientific Advisory Board, Alzheimer Research Consortium, New York, NY
- 2003 Member, Scientific Advisory Board, Gladstone Institute of Neurological Disease, San Francisco, CA

PROFESSIONAL SOCIETY MEMBERSHIPS

American Association for the Advancement of Science (Fellow)
 American College of Neuropsychopharmacology
 Brain and Behavior Research Foundation (formerly NARSAD)
 International Behavioral and Neural Genetics Society
 International Behavioral Neuroscience Society (Fellow)
 International Neuropeptide Society (Founding Member)
 International Society for Autism Research
 Society for Neuroscience

FUNDING SUPPORT

A. Current

NIH/NICHD 1U54HD079125-01, 9/24/2013 – 6/30/2025
 MIND Institute Intellectual and Developmental Disabilities Research Center
 Role: Co-Investigator, Director, Rodent Behavior Core E
 PI Leonard Abbeduto, Director, MIND Institute, University of California Davis

NIH/NIMH 1 P50 MH106438-01, 4/1/2015 – 3/31/2021

Silvio O. Conte Centers for Basic or Translational Mental Health Research, Neuroimmune Mechanisms of Psychiatric Disorders
Role: Co-Investigator, Project 1
PI Cameron Carter, University of California Davis

B. Completed

Autism Speaks Targeted Award 9868, 9/1/2013 – 2020
Preclinical Autism Consortium for Therapeutics
Role: Principal Investigator
Co-Principal Investigator Mustafa Sahin, Boston Children's Hospital and Harvard University

NIH/NINDS 1R01NS085709, 9/1/2013-8/31/2018
Convergent Synaptic Mechanisms in Neurodevelopmental Disorders
Role: Principal Investigator
Co-Principal Investigators Gary Lynch and Christine Gall, University of California Irvine

Simons Foundation Clinical Research Associates Award 497700, 1/1/17-9/30/17
Preclinical evaluation of therapeutic efficacy of r-baclofen in reversing behavioral deficits in 16p11.2 deletion mice
Role: Principal Investigator

NIH/NIHDS 1U54NS079202-01, 9/1/2012 – 8/31/17
Novel anticonvulsant and neuroprotective therapies for TETS and OP intoxication
Role: Co-Investigator, Project 2
PI Pamela Lein, University of California Davis

Simons Foundation #201223539JC, 3/1/2013 – 2/28/2016
Characterization of brain and behavior in 7q11.23 duplication syndrome
Co-PI Lucy Osborne, University of Toronto

Simons Foundation #204340JC, 3/1/2012 – 2/28/2015
Simons Foundation SFARI, 16p11.2 Deletion Mice: Autism-Relevant Phenotypes and Treatment Discovery
Co-PI Ricardo Dolmetsch, Stanford University

Autism Speaks Targeted Proposal 8534, 1/1/2013-6/30/2013
Preclinical Autism Consortium for Therapeutics, Start-up to purchase equipment and mice
Co-PIs Richard Paylor, Baylor School of Medicine, Mustafa Sahin, Boston Children's Hospital and Harvard University

Simons Foundation SFARI Award, 2009-2011
The Role of SHANK3 in Autism Spectrum Disorders
PI Joseph Buxbaum, Mt. Sinai School of Medicine, New York, NY

New Jersey Governor's Council for Medical Research and Treatment of Autism, 2010-2012
Developmental Role of Engrailed-2 in Regulation of Forebrain-Projecting Monoamine Systems
PI Emanuel DiCicco-Bloom, Robert Wood Johnson Medical School, University of Medicine and Dentistry

Pfizer Global Research Inc., Academic Collaboration Award, 2010-2012
Gene Discovery and Neurodevelopmental Analysis in a Mouse Model of Autism
PI Elliott Sherr, University of California San Francisco

C. NIMH Intramural

1 ZIA MH02179-24 Animal Models of Neuropsychiatric Disorders, 1983-2012
NIMH Intramural Research Program to Laboratory of Behavioral Neuroscience
PI Jacqueline Crawley

NIH Intramural Bench to Bedside award, 2003-2005
Investigation of brain and behavioral effects of specific gene deleted in Williams syndrome critical area of chromosome 7q11.23 in patients and knockout mice
Co-PIs Karen Berman and Jacqueline Crawley

D. Unfunded NIMH Intramural Co-Investigator on Extramural NIH Grants

Intramural Principal Investigators at the National Institutes of Health are prohibited from accepting funding from extramural grants. Intramural PIs can be listed on NIH extramural grants as unfunded investigators.

Unfunded Co-Investigator on:

R01 MH081845-01A2, 2009-2013
The Genetic Control of Social Behavior in the Mouse
PI Robert Blanchard, University of Hawaii at Manoa

OF14 ISS-NIH Partnership Award, 2006-2010
Neurobehavioral Phenotyping of Genetically Modified Mouse Models of Mental Retardation
PI Laura Ricceri, Istituto Superiore di Sanita, Rome, Italy

5R01MH061696-05, 2002-2007
Studies to Advance Autism Research and Treatment (STAART)
PI Joseph Piven, University of North Carolina
Project 4 Gene Dissection of Autism-Related Behaviors in Mice, PI Terry Magnuson

E. Consultant/Collaborator on External Foundation Grants

Kimberly McAllister, UC Davis, Simons Foundation grant, 2014-2016

David Segal, UC Davis, Angelman Foundation grant, 2014

Judy Van de Water, UC Davis, Hartwell Foundation grant, 2014

Konstantinos Zarbalis, UC Davis and Shriner's Hospital, Simons Foundation Explorer grant, 2014, NIH R21 2018-2020

Mu Yang, UC Davis, Tupin award, 2014

Melissa Bauman, UC Davis, Tupin award, 2013, MIND Institute Pilot Project award 2018

Intramural Principal Investigators at the National Institutes of Health are prohibited from accepting financial compensation as consultants on extramural grants. Intramural PIs can be listed on NIH extramural grants as unfunded advisors.

Behavioral Advisor to NIH R01 grant, Neurochemical and behavioral activity of NAAG in animal models of schizophrenia, PI Joseph Neale, Georgetown University, 2008-2013

External Advisory Committee member, NeuroTherapeutics Research Institute, University of California Davis School of Medicine (2008)

Behavioral Advisor to P30 Developmental Disabilities Research Center, PI Joseph Piven, University of North Carolina, 2008-2013

Behavioral Advisor to Mouse Behavioral Core Facilities at Gladstone Institute at University of California San Francisco, Harvard University, Stanford University, Case Western Reserve University, Vanderbilt University (past service, 2005-2012)

Behavioral Advisor to AALAS grant, Communal nesting in mice, PI Kathleen Heiderstadt, Pennsylvania State University, 2009-2012

Behavioral Advisor to NIH R01 grant, Neonatal seizure therapy and susceptibility to schizophrenia, PI Alexei Kondratyev, Georgetown University School of Medicine, 2007-2010

Consultant to Center Grant, Johns Hopkins University, Dr. John Gearhardt, Principal Investigator, 1998-2001

Consultant to Program Project Grant, Georgetown University, Dr. Richard Gillis, Principal Investigator, 1992-96

CONSULTANT TO PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES

2021	External Advisor, University of Strasbourg, SAAT Connectus Alsace, CERBM, Strasbourg, France
2020-present	Sanofi US Services, Inc., Bridgewater, NJ
1997-2000	Consultant, Helicon Inc., Cold Spring Harbor, NY
1996-1999	Consultant, R.W. Johnson Pharmaceutical Research Institute, Spring House, PA

NIH COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT

1999-2000	Pharmacopeia, Inc., Cranbury, NJ “Development of Biologically Active, Subtype-Selective, Nonpeptide Galanin Receptor Agonists and Antagonists”
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NIH ROYALTIES RECEIVED

Dishevelled-1 null mutant mice licensed by Dr. Anthony Winshaw-Boris, NHGRI, to Merck Neuroscience Research Centre, Terlings Park, Harlow, England, UK, 1999

Neurosciences Research, SmithKline Beecham, Harlow, England, UK, 2000

PEER-REVIEWED PUBLICATIONS

1. Lerner JN, Mellen SA, Waldron I, Factor RM: Neural redundancy and regularity of swimming beats in the scyphozoan medusae. *J Exp Biol* 55:177-185, 1971.
2. Crawley JN, Schleidt WM, Contrera JF: Does social environment decrease propensity to fight in male mice? *Behav Biol* 15:73-83, 1975.
3. Crawley JN and Contrera JF: Intraventricular 6-hydroxydopamine lowers isolation-induced fighting behavior in male mice. *Pharmacol Biochem Behav* 4:381-384, 1976.
4. Crawley JN, Hattox SE, Maas JW, Roth RH: 3-Methoxy-4-hydroxyphenethyleneglycol increase in plasma after stimulation of the nucleus locus coeruleus. *Brain Res* 141:380-384, 1978.
5. Crawley JN, Maas JW, Roth RH: Increase in plasma MHPG following stimulation of the nucleus locus coeruleus. *Psychopharm Bull* 15:27-29, 1978.
6. Crawley JN, Lavery R, Roth RH: Clonidine reversal of increased norepinephrine metabolite levels during morphine withdrawal. *Eur J Pharmacol* 57:247-259, 1979.
7. Crawley JN, Roth RH, Maas JW: Locus coeruleus stimulation increases noradrenergic metabolite levels in rat spinal cord. *Brain Res* 166:180-184, 1979.
8. Crawley JN, Maas JW, Roth RH: Evidence against specificity of electrical stimulation of the nucleus locus coeruleus in activating the sympathetic nervous system in the rat. *Brain Res* 183:301-311, 1980.
9. Crawley JN, Roth RH, Maas JW: Biochemical evidence for simultaneous activation of multiple locus coeruleus efferents. *Life Sci* 26:1373-1378, 1980.
10. Crawley JN and Goodwin FK: Preliminary report of a simple animal behavior model for the anxiolytic effects of benzodiazepines. *Pharmacol Biochem Behav* 13:167-170, 1980.
11. Crawley JN: Neuropharmacologic specificity of a simple animal model for the behavioral actions of benzodiazepines. *Pharmacol Biochem Behav* 15:695-699, 1981.
12. Crawley JN, Hays SE, O'Donohue TL, Paul SM: Neuropeptide modulation of social and exploratory behaviors in laboratory rodents. *Peptides* 2:123-129, 1981.
13. Crawley JN, Hays SE, Paul SM: Vagotomy abolishes the inhibitory effects of cholecystokinin on rat exploratory behavior. *Eur J Pharmacol* 73:379-380, 1981.
14. Crawley JN, Hays SE, Paul SM, Goodwin FK: Cholecystokinin reduces exploratory behavior in mice. *Physiol Behav* 27:408-411, 1981.
15. Crawley JN, Patel J, Marangos PJ: Behavioral characterization of two long-lasting adenosine analogs: Sedative properties and interaction with diazepam. *Life Sci* 29:2623-2630, 1981.
16. Skolnick P, Paul SM, Crawley JN, Rice K, Barker S, Weber R, Cain M, Cook J: 3-Hydroxymethyl-beta-carboline antagonizes some pharmacologic actions of diazepam. *Eur J Pharmacol* 69:525-528, 1981.
17. Swann AC, Crawley JN, Grant SJ, Maas JW: Noradrenergic stimulation in vivo increases (Na⁺,K⁺)-adenosine triphosphate activity. *Life Sci* 28:251-256, 1981.

18. [Crawley JN](#), Marangos PJ, Paul SM, Skolnick P, Goodwin FK: Purine benzodiazepine interaction: Inosine reverses diazepam-induced stimulation of mouse exploratory behavior. *Science* 22:725-727, 1981.
19. Cain M, Wever RW, Guzman F, Cook JM, Barker SA, Rice KC, [Crawley JN](#), Paul SM, Skolnick P: Beta-carbolines: Synthesis, neurochemical, and pharmacological actions on brain benzodiazepine receptors. *J Med Chem* 25:1081-1091, 1982.
20. [Crawley JN](#) and Davis LG: Baseline exploratory activity predicts anxiolytic responsiveness to diazepam in five mouse strains. *Brain Res Bull* 8:609-612, 1982.
21. [Crawley JN](#), Marangos JN, Stivers PJ, Goodwin FK: Chronic clonazepam administration induces benzodiazepine receptor subsensitivity. *Neuropharmacology* 21:85-90, 1982.
22. [Crawley JN](#), Rojas-Ramirez JA, Mendelson WB: The role of central and peripheral cholecystokinin in mediating appetitive behaviors. *Peptides* 3:535-538, 1982.
23. [Crawley JN](#), Szara S, Creveling CR, Pryor GT: Development and evaluation of a video-monitored, computer-assisted system for automatic recording of social and exploratory behavior of small animals. *J Neurosci Methods* 5:235-247, 1982.
24. Marangos PJ and [Crawley JN](#): Chronic benzodiazepine treatment increases [³H] muscimol binding in mouse brain. *Neuropharmacology* 21:81-84, 1982.
25. Moody TW, [Crawley JN](#), Jensen RT: Pharmacology and neurochemistry of bombesin-like peptides. *Peptides* 3:559-563, 1982.
26. Rojas-Ramirez JA, [Crawley JN](#), Mendelson WB: Electroencephalographic analysis of the sleep-inducing actions of cholecystokinin. *Neuropeptides* 3:129-138, 1982.
27. Blumstein LK and [Crawley JN](#): Further characterization of a simple, automated exploratory model for the anxiolytic effects of benzodiazepines. *Pharmacol Biochem Behav* 18:37-40, 1983.
28. Charlton CG, Miller RL, [Crawley JN](#), Handelmann GE, O'Donohue TL: Secretin modulation of behavioral and physiological functions in the rat. *Peptides* 4:739-742, 1983.
29. [Crawley JN](#): Divergent effects of cholecystokinin, bombesin, and lithium on rat exploratory behaviors. *Peptides* 4:405-410, 1983.
30. [Crawley JN](#): Preliminary report of a new rodent separation model of depression. *Psychopharm Bulletin* 19:537-541, 1983.
31. [Crawley JN](#) and Beinfeld MC: Rapid development of tolerance to the behavioral actions of cholecystokinin. *Nature* 302:703-706, 1983.
32. [Crawley JN](#) and Moody TW: Anxiolytics block excessive grooming behavior induced by ACTH 1-24 and bombesin. *Brain Res Bull* 10:399-401, 1983.
33. [Crawley JN](#), Patel J, Marangos PJ: Adenosine uptake inhibitors potentiate the sedative effects of adenosine. *Neurosci Lett* 36:169-174, 1983.

34. Skolnick P, Paul S, [Crawley J](#), Lewin E, Lippa A, Clody D, Irmischer K, Saiko O, Minck KO: Antagonism of the anxiolytic action of diazepam and chlordiazepoxide by two novel pyrazolopyridines, EMD 39593 and EMD 41717. *Eur J Pharmacol* 88:319-327, 1983.
35. [Crawley JN](#) and Schwaber JS: Nucleus tractus solitarius lesions block the behavioral actions of cholecystokinin. *Peptides* 4:743-747, 1983.
36. [Crawley JN](#): Cholecystokinin accelerates the rate of habituation to a novel environment. *Pharmacol Biochem Behav* 20:23-27, 1984.
37. [Crawley JN](#): Evaluation of a proposed hamster separation model of depression. *Psychiatry Res* 11:35-47, 1984.
38. [Crawley JN](#): Preliminary report of a new rodent separation model of depression. *Prog Neuropsychopharmacol Biol Psychiatry* 8:447-457, 1984.
39. [Crawley JN](#), Blumstein LK, Baldino F: Anxiolytic-like properties of fominoben. *Eur J Pharmacol* 97:277-281, 1984.
40. [Crawley JN](#), Hommer DW, Skirboll LR: Behavioral and neurophysiological evidence for a facilitatory interaction between co-existing transmitters: cholecystokinin and dopamine. *Neurochem Int* 6:755-760. 1984.
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102. Kazdoba TM, Leach PT, Yang M, Silverman JL, Solomon J, [Crawley JN](#). Translational mouse models of autism: Advancing toward pharmacological therapeutics. *Translational Neuropsychopharmacology*, in *Current Topics in Behavioral Neuroscience*, 2016.
103. [Crawley JN](#), Heyer WD, LaSalle JM. Autism and cancer share risk genes, pathways and drug targets. *Trends in Genetics*, 32: 139-146, 2016.
104. Pearson B, [Crawley J](#), Eilam D, Pentkowski N, Summers C. Curiosity as an approach to ethoexperimental analysis: behavioral neuroscience as seen by students and colleagues of Bob Blanchard. *Neuroscience & Biobehavioral Reviews*, 15: 3(1), 2016.
105. Sukoff Rizzo SJ, [Crawley JN](#). Behavioral phenotyping assays for genetic mouse models of neurodevelopmental, neurodegenerative, and psychiatric disorders. *Annual Review of Animal Bioscience* 5:371-389, 2017.
106. Jacquemont S, Berry-Kravis E, Lindemann L, Jønch A, Apostol G, Bear M, Carpenter R, [Crawley J](#), Curie A, Des Portes V, Hossain F, Gasparini F, Gomez-Mancilla B, Hessel D, Loth E, Scharf S, Wang P, Von Raison F, Hagerman R, Spooren W. Drug development for fragile X syndrome: Lessons learned and implications for treatment of neurodevelopmental disorders, *Nature Reviews Drug Discovery* 17:280-298, 2018.
107. Gulinello M, Mitchell HA, Chang Q, O'Brien WT, Zhou Z, Abel T, Wang L, Corbin JG, Veeraragavan S, Samaco RC, Andrews NA, Fagiolini M, Cole TB, Burbacherg TM, [Crawley JN](#). Rigor and reproducibility in rodent behavioral research. *Neurobiology of Learning and Memory*, pii: S1074-7427(18)30001-7, 2018.
108. Buxbaum JD, Baron-Cohen S, Anagnostou E, Ashwin C, Betancur C, Chakrabarti B, [Crawley JN](#), Hoekstra RA, Hof PR, Lai MC, Lombardo MV, Schumann CM. Rigor in science and science reporting: updated guidelines for submissions to Molecular Autism. *Molecular Autism* 10:6, 2019.
109. Bauman MD, [Crawley JN](#), Berman RF: Autism: Animal models. *Wiley Encyclopedia of Life Sciences*, pub2:a0022368, doi 10.1002/9780470015902, 2019.
110. [Crawley JN](#), Fagiolini M, Harrison FE, Samaco R, Wozniak DF, Robinson MB. Behavioral analyses of animal models of intellectual and developmental disabilities. *Neurobiology of Learning and Memory* 165:107087, 2019.

INVITED LECTURES, 1996-present

1. University of Kentucky Department of Anatomy and Neurobiology, "Galanin-acetylcholine interactions in rodent memory paradigms relevant to Alzheimer's disease." February 6, 1996.

2. Keystone Symposium on Neural Peptides, "Inhibitory actions of galanin on rodent memory tasks relevant to Alzheimer's disease," February 12, 1996.
3. NIH Integrative Neuroscience Seminar Series, "Galanin inhibits performance on memory tasks in rodent models of Alzheimer's disease," March 28, 1996.
4. Schering-Plough Research Institute, "Behavioral actions of galanin and galanin antagonists in rodent feeding and memory paradigms," April 18, 1996.
5. NIH Workshop on Behavioral Phenotypes of Inbred Strains of Mice, "Anxiety-related behaviors and diazepam response in inbred mouse strains," Workshop organized by R Paylor and JN Crawley, April 24, 1996.
6. Georgetown University Department of Pharmacology Seminar Series, "Inhibitory Actions of Galanin on Cholinergic Functions in Rodent Memory Tasks: Relevance to Alzheimer's disease," May 7, 1996.
7. R.W. Johnson Pharmaceutical Research Institute, "Galanin-acetylcholine interactions in memory and Alzheimer's disease," May 16, 1996.
8. Canadian College of Neuropsychopharmacology Plenary Lecture, "Galanin-acetylcholine interactions in rodent memory tasks and Alzheimer's disease," June 4, 1996.
9. Merck Research Laboratories, "Galanin receptor antagonists in rodent feeding and memory paradigms," July 23, 1996.
10. Astra Arcus AB Stockholm, "Feeding, learning and memory profiles of galanin," September 9, 1996.
11. Pennsylvania State University Neuroscience Seminar Series, "Inhibitory actions of galanin in rodent memory paradigms," October 18, 1996.
12. National Institute of Mental Health Satellite Symposium, Society for Neuroscience Annual Meeting, "Opportunities for behavioral neuroscientists to investigate the behavioral phenotypes of transgenic and knockout mice," November 15, 1996.
13. Society for Behavioral Neuroendocrinology Annual Meeting, "Transgenic/knockout approaches to investigate genes mediating normal and abnormal social behaviors," May 28, 1997.
14. National Institute on Drug Abuse Satellite Symposium, Society for Neuroscience Annual Meeting, "Behavioral phenotyping of mutant mice," October 29, 1997.
15. Merck Frosst Research, Dorval, Canada, "Behavioral actions of galanin," March 13, 1998.
16. Wenner-Gren Foundations International Symposium, Stockholm, Sweden, Galanin: Basic Research Discoveries and Therapeutic Implications, "Galanin inhibits performance on rodent memory tasks," May 5, 1998.
17. First Joint Meeting of the European Neuropeptide Club and the Summer Neuropeptide Conference, Gent, Belgium, "Strategies for assessing learning and memory in transgenic and knockout mice," May 6, 1998.
18. NIH Genetics Interest Group meeting, "Strategies for behavioral phenotyping of transgenic and knockout mice," June 9, 1998.

19. Neurogen Corporation, Branford, CT, "Actions of central galanin on feeding and memory," August 4, 1998.
20. Merck Neuroscience Research Center Symposium, The Role of Transgenic Mouse Models in Furthering Our Understanding of the Processes Underlying Learning and Memory, Terlings Park, England, UK, "Inbred strains of mice: Caveats on the role of background genes in evaluating the behavioral phenotype of transgenic and knockout mice on learning and memory tasks," October 16th, 1998.
21. Brain Research Interactive Conference, Satellite to the Society for Neuroscience Annual Meeting, Knockouts and Mutants: Genetically Dissecting Brain and Behavior, San Diego, CA, "Experimental design and evaluation of general health, sensory functions, motor abilities, and specific behavioral paradigms in transgenic and knockout mice," November 5th, 1998.
22. Bourne Laboratory, Department of Psychiatry, Cornell Medical Center, White Plains, NY, "Strategies for behavioral phenotypes of transgenic and knockout mice," November 24, 1998.
23. Oak Ridge National Laboratory, Oak Ridge, TN, "Strategies for behavioral phenotyping of mutant mice," December 11, 1998.
24. Neuroscience Seminar Series, Uniformed Services University of the Health Sciences, Bethesda, MD, "Behavioral phenotyping of transgenic and knockout mice with mutations in genes relevant to learning and memory," January 6th, 1999.
25. Behavioral and Social Sciences Interest Group Seminar, Bethesda, MD, "The misbehaving gene," January 14th, 1999.
26. Neuroscience Faculty Seminar Series, Texas A&M University, College Station, TX, "Behavioral phenotyping of transgenic and knockout mice," February 3rd, 1999.
27. Neuroscience Program Seminar Series, University of Michigan, Ann Arbor, MI, "Behavioral phenotyping of transgenic and knockout mice with mutations in genes relevant to learning and memory," February 15th, 1999.
28. National Cancer Institute Symposium, Pathology of Genetically-Engineered Mice, "Strategies for behavioral phenotyping of transgenic and knockout mice," Bethesda, MD, February 25th, 1999.
29. Hoffmann-La Roche, Basel, Switzerland, "Rodent learning and memory tasks relevant to aging and Alzheimer's disease," March 2, 1999.
30. Tenth Annual Spring Brain Conference, Sedona, AZ, "Inhibitory actions of galanin on rodent memory tasks relevant to Alzheimer's disease," March 11th, 1999.
31. Purdue University Special Lectures in Neuroscience Series, West Lafayette, IN, "Inhibitory actions of galanin in rodent memory tasks: relevance to Alzheimer's disease;" and Neuroscience Graduate Program Lecture Series, "Behavioral phenotyping of transgenic and knockout mice," April 28th and 29th, 1999.
32. NIH Alzheimer's Interest Group, Bethesda, MD, "Inhibitory actions of galanin in rodent memory tasks relevant to Alzheimer's disease," Bethesda, MD, May 6th, 1999.
33. University of Washington Physiology Seminar, Seattle, WA, "Strategies for behavioral phenotyping of transgenic and knockout mice," June 2, 1999.
34. Lilly Neuroscience Seminar, Indianapolis, IN, "Strategies for behavioral phenotyping of transgenic and knockout mice," November 10th, 1999.

35. US/Japan Meeting, National Academy of Sciences, Washington, DC, "Defining phenotype in genetically engineered mice," November 15th, 1999.
36. International Behavioural and Neural Genetics Society Annual Meeting, Brighton, UK, "What's wrong with my mouse? Behavioral phenotyping strategies and applications." June 22, 2000.
37. Summer Neuropeptide Conference, Ste. Adele, Quebec, Canada, "Learning and memory deficits in galanin-overexpressing transgenic mice," July 23rd, 2000.
38. Nobel Forum Minisymposium, In Search of Molecular Substrates of Behavior, Stockholm Sweden, "Strategies for behavioral phenotyping of transgenic and knockout mice," October 5, 2000.
39. Scripps Research Institute, Neuroscience Seminar Series, La Jolla, CA, "Behavioral phenotype of galanin transgenic mice," February 28, 2001.
40. University of North Carolina, Neurodevelopment Disorders Research Center seminar, Chapel, Hill, NC, "Strategies for behavioral phenotyping of mouse models," April 4th, 2001.
41. International Behavioral Neuroscience Society Annual Meeting, Presidential Lecture, Cancun, Mexico, "Galanin: An inhibitory neuropeptide overexpressed in Alzheimer's disease impairs learning and memory in rats and transgenic mice," April 27, 2001.
42. Karolinska Institutet, The Mouse in Cognitive Neuroscience: Implications for Functional Genomics, Postgraduate Course in Behavioural Neuroscience, Stockholm, Sweden, "Overall strategy for mouse behavioral phenotyping," May 9, 2001; "Assessment of anxiety tasks in mice. What do they predict?" May 10th, 2001.
43. University of Helsinki Symposium on Phenotypic Analysis of Transgenic Mice, Helsinki, Finland, "Inhibitory actions of galanin in memory tasks relevant to Alzheimer's disease," May 12th, 2001.
44. Bio 2001, Symposium on Methods for Phenotypic Evaluation of Transgenic and Knockout Mice, San Diego, CA, "Methods for evaluating the behavioral phenotype of transgenic and knockout mice," June 27th, 2001
45. EMBO/FENS Practical Course on Mouse Transgenics and Behaviour, University of Zurich, Zurich, Switzerland, "What's wrong with my mouse? Behavioural phenotyping strategies and applications," July 18th, 2001.
46. Swiss Federal Institute of Technology Seminar, Zurich, Switzerland, "Selective memory deficits in galanin-overexpressing transgenic mice," July 19th, 2001.
47. The Jackson Laboratory 42nd Annual Short Course in Medical and Experimental Mammalian Genetics, Bar Harbor, ME, "Mouse behavioral genetics," July 24th, 2001.
48. George Washington University Neuroscience Seminar Series, Washington DC, "Memory deficits in galanin overexpressing transgenic mice: relevance to Alzheimer's disease," September 10th, 2001.
49. University of Pennsylvania Neuroscience, David Mahoney Institute of Neurological Sciences Seminar Series, Philadelphia, PA, "Memory deficits in a galanin overexpressing transgenic mouse model of Alzheimer's disease," October 3rd, 2001
50. Joslin Diabetes Center, Harvard University, Boston, MA, "Strategies for behavioral phenotyping of transgenic and knockout mice," November 1st, 2001.

51. Tenth Annual Puerto Rico Neuroscience Conference, San Juan, PR, "Strategies for behavioral phenotyping of transgenic and knockout mice," November 30th, 2001.
52. Howard University Department of Pharmacology Seminar Series, Washington, DC, "Memory deficits in galanin overexpressing transgenic mice: Relevance to Alzheimer's disease," January 9th, 2002.
53. University of North Carolina Department of Psychology Seminar Series, "Memory impairments in galanin overexpressing transgenic mice: Relevance to Alzheimer's disease. January 16th, 2002.
54. National Academy of Sciences Institute for Laboratory Animal Research, Workshop on Guidelines for the Use of Animals in Neuroscience and Behavioral Research, Washington, DC, "Transgenic animals," February 27th, 2002.
55. Synaptic Pharmaceuticals Seminar Series, Paramus, NJ, "New development in the study of galanin knockout animals," March 13, 2002.
56. American College of Laboratory Animal Medicine 2002 Forum, Genetics, Genomics, and Gene Therapy, Savannah, GA, "Behavioral phenotyping in rodents," April 15th, 2002.
57. Gladstone Institute of Neurological Disease, San Francisco, CA, "Strategies for behavioral phenotyping of transgenic and knockout mice," April 25th, 2002.
58. National Institute of Mental Health Intramural Research Program Senior Investigators Seminar Series, NIMH/IRP Fellows Committee, Bethesda, MD, "Memory deficits in galanin overexpressing transgenic mice: Relevance to Alzheimer's disease," May 15, 2002.
59. National Institutes of Health Conference, Planning the Design of an Animal Research Facility at the NIH, Bethesda, MD, "Introduction to rodent behavioral studies," June 18th, 2002.
60. The Jackson Laboratory Short Course on Pathobiology of the Modern Laboratory Mouse, Bar Harbor, ME, "Behavioral phenotyping of mutant mice," June 26th, 2002.
61. Cold Spring Harbor Laboratory Mouse Behavioral Analysis Course, Cold Spring Harbor, NY, "Strategies for behavioral phenotyping," June 29th, 2002.
62. Eighth International Summer School on Behavioral Neurogenetics, Worcester, MA, "Behavioral phenotyping of transgenic and knockout mice," August 8th, 2002.
63. University of Massachusetts Neuroscience Seminar, Worcester, MA, "Inhibitory actions of galanin in memory tasks relevant to Alzheimer's disease," September 12, 2002.
64. National Institute on Drug Abuse Lecture Series, Rockville, MD, "Galanin induces performance deficits on learning and memory in rodents," October 2, 2002.
65. National Institute on Alcoholism and Alcohol Addiction Seminar, Rockville, MD, "Strategies for behavioral phenotyping of transgenic and knockout mice," October 24, 2002.
66. Sixteenth Annual Neuroscience Symposium of the Central Virginia Chapter of the Society for Neuroscience, Richmond, VA, "Learning and memory deficits in galanin overexpressing transgenic mice: Relevance to Alzheimer's disease," April 7, 2003.
67. First Annual Meeting of the STAART Autism Research Center, Chapel Hill, NC, "Project IV: Gene dissection of autism-related behaviors in mice," April 9, 2003.

68. Laboratory of Animal Medicine Residency Program Course, Uniformed Services University of the Health Sciences, Bethesda, MD, "Behavioral Phenotyping of Transgenic Rodents," April 1, 2003.
69. Integrative Genomics Symposium, University of Michigan, Ann Arbor, MI, "Strategies for Behavioral Phenotyping of Transgenic and Knockout Mice," May 7, 2003.
70. Neuroscience Seminar Series, McLean Hospital, Harvard Medical School, Belmont, MA, "Cognitive deficits in galanin overexpressing transgenic mice: Relevance to Alzheimer's disease," May 20th, 2003.
71. Monitoring Molecules in Neuroscience: Tenth International Conference on *In Vivo* Methods, Stockholm, Sweden, "Transgenic models of CNS diseases: role of behavioral pharmacology," June 25th, 2003.
72. Gladstone Distinguished Scholar Lecture, San Francisco, CA, "Cognitive deficits in galanin overexpressing transgenic mice: Relevance to Alzheimer's disease," September 25, 2003.
73. Society for Neuroscience Short Course 2, San Diego, CA, "Mouse Behavioral Phenotyping," Organizer and Introductory Lecturer, November 7th, 2003.
74. Autism Forum, University of North Carolina, Chapel Hill, NC, "How would you model autism in mice?" February 3rd, 2004.
75. Neurobiology Seminar, University of North Carolina, Chapel Hill, NC, "Behavioral phenotyping of transgenic and knockout mice," February 6th, 2004.
76. Neuroscience Program Seminar Series, Georgetown University School of Medicine, "How would you model autism in mice?" February 24th, 2004.
77. Conte Center Seminar Series, University of North Carolina, Chapel Hill, NC, "Mouse models of schizophrenia," March 2, 2004.
78. Gatlinburg Conference on Research and Theory in Intellectual and Developmental Disabilities, San Diego, CA, Plenary Lecturer, "Animal models." March 12, 2004.
79. New Paradigms for Exploring Gene-Environment-Behavior Relationships, National Institute on Environmental and Health Sciences, Research Triangle Park, NC, "How would you model autism in mice?" April 28, 2004.
80. STAART/CPEA Conference on Autism, Washington, DC, "How would you model autism in mice?" May 18, 2004.
81. NIMH MATRICS Meeting, Potomac, MD, Discussion session on mouse models of social cognition deficits in schizophrenia, September 9, 2004.
82. EUMORPHIA Annual Meeting, Understanding Human Disease Through Mouse Genetics, London, UK, "High quality and high throughput behavioral phenotyping," October 5, 2004.
83. Galanin 2004, San Diego, CA, Co-Organizer and Roundtable Discussion leader, "Galanin research tools – ligands and mutants," October 22, 2004.
84. National Alliance on Autism Research meeting, Integrating the Clinical and Basic Sciences of Autism, Fort Lauderdale, FL, "Designing mouse behavioral tasks to model the symptoms of autism," November 12, 2004.

85. Food and Drug Administration Seminar Series, Rockville, MD, "Behavioral analysis of mouse models of human diseases," December 15, 2004.
86. University of Florida School of Medicine Grand Rounds, Gainesville, FL, "Autism models," January 28, 2005.
87. Case Western Reserve University Neuroscience Seminar Series, Cleveland, OH, "Behavioral phenotyping strategies", February 17, 2005.
88. Uniformed Services Veterinary Course, Bethesda, MD, "Strategies for mouse behavioral phenotyping," April 13, 2005.
89. NIH Animal Welfare Interest Group, Bethesda, MD, "Strategies for behavioral phenotyping," April 27, 2005.
90. Experimental Neurogenetics of the Mouse, Second Annual Course, Memphis, TN, two lectures: "Examining general behavior in mice," "Social behavior," May 19, 2005.
91. University of Pennsylvania Neuroscience Seminar Series, Philadelphia, PA, "Mouse behavioral phenotyping: Designing tasks to model the symptoms of autism," May 24, 2005.
92. International Behavioral Neuroscience Society Annual Meeting, Sante Fe, NM, Marjorie A. Myers Lifetime Achievement Award and symposium lecture, "Behavioral tasks to model the core symptoms of autism in mice," June 2, 2005.
93. Summer Neuropeptide Conference, Miami, FL, Fleur Strand Award Lecture, "Neuropeptides and Behavior: The trouble with galanin in Alzheimer's Disease," July 8, 2005.
94. National Institute of Mental Health Scientific Review Administrators Lecture Series, Bethesda, MD, "Modeling the symptoms of autism in mice," September 7, 2005.
95. Genomic Neuroscience Conference, Wellcome/Cold Spring Harbor, Hinxton, Cambridge, UK, "Mouse behavioral phenotyping," September 29th, 2005.
96. University of Illinois Neuroscience seminar series, Urbana, IL, "Galanin overexpressing transgenic mice display learning and memory deficits: Relevance to Alzheimer's disease," October 7th, 2005.
97. Waisman Center seminar series, University of Wisconsin, Madison, WI, "Modeling the symptoms of autism in mice," October 4th, 2005.
98. Neurobiology of Disease Workshop on Autism, Society for Neuroscience annual meeting, Washington, DC, "Strategies to model the symptoms of autism in mice," November 11, 2005.
99. Wadsworth Institute seminar series, NY, "Strategies for modeling the symptoms of autism in mice," December 8th, 2005.
100. Neuroscience seminar series, Medical College of South Carolina, Charleston, SC, "Galanin impairs performance on learning and memory tasks: Relevance to Alzheimer's disease," January 26th, 2006.
101. Brain Institute seminar, University of Utah, Salt Lake City, UT, "Strategies for mouse behavioral phenotyping," February 6th, 2006.
102. Rockefeller University seminar, New York, NY, "Strategies for mouse behavioral phenotyping," March 15th, 2006.

103. Pharmacology graduate seminar, Howard University, Washington, DC, "Modeling the symptoms of autism in mice," March 29th, 2006.
104. International Meeting for Autism Research, Montreal, Canada, "Strategies for designing mouse behavioral tasks relevant to the symptoms of autism," June 3, 2006.
105. Seaver Center seminar, Mt. Sinai School of Medicine, NY, NY, "Designing mouse behavioral tasks relevant to the symptoms of autism," September 13, 2006.
106. GTCBio conference Epigenetics and Neural Developmental Disorders, Beltsville, MD, "Designing mouse behavioral tasks relevant to the symptoms of autism," September 19, 2006.
107. Simons Foundation discussion group on mouse models of autism spectrum disorders, New York, NY, September 26, 2006.
108. National Institute on Dental and Craniofacial Research seminar series, Bethesda, MD, "Behavioral phenotyping of transgenic and knockout mice," January 26, 2007.
109. The Neurosciences Institute, Meeting on Schizophrenia, San Diego, CA, "Rodent models of schizophrenia," February 5th, 2007.
110. Staff Training in Extramural Programs Forum on Animal Models, NIH, Bethesda, MD, "Strategies for modeling the symptoms of autism in mice," February 8th, 2007.
111. Neurodevelopmental Disorders Interest Group, NIMH, Bethesda, MD, "How would you model the symptoms of autism in mice," February 8th, 2007.
112. Neuroscience Seminar Series, University of Virginia, Charlottesville, VA, "Approaches to modeling the symptoms of autism in mice," February 13th, 2007.
113. Behavioral Neuroscience Seminar Series, Ohio State University, Columbus, OH, "Strategies for modeling the symptoms of autism in mice," March 1, 2007.
114. Research Seminar Series, Maryland Psychiatry Research Center, University of Maryland, Baltimore, MD, "Strategies for modeling the symptoms of autism in mice," March 7th, 2007.
115. Neurodevelopmental Disorders Research Center Fellows Seminar Series, University of North Carolina School of Medicine, Chapel Hill, NC, "Mouse behavioral phenotyping," March 21st, 2007.
116. Neuroscience Seminar Series, Vanderbilt University School of Medicine, Nashville, TN, "Strategies for modeling the behavioral symptoms of autism in mice," April 5th, 2007.
117. Emerging Methods and Technologies in Behavioral Neuroscience Workshop, Society for Behavioral Neuroendocrinology, Asilomar, CA, "Strategies for designing rodent models of neuropsychiatric disorders," June 21st, 2007.
118. Translational Approaches to Studying Repetitive Behavior and Resistance to Change in Autism, NIMH Workshop, Bethesda, MD, "Repetitive self-grooming in socially deficient BTBR T+tf/J mice," September 6th, 2007.
119. Autism and Developmental Disorders Colloquium, Massachusetts Institute of Technology, Cambridge, MA, "Designing behavioral tasks for mouse models of autism," September 19th, 2007.

120. Neuroscience Seminar Series, University of Virginia, Charlottesville, VA, "Designing mouse behavioral tasks relevant to the symptoms of autism," September 25th, 2007.
121. Neurogenetics Seminar Series, University of California San Francisco, "Strategies for modeling the behavioral symptoms of autism in mice," October 2nd, 2007.
122. Short Course #1 Mouse Behavioral Phenotyping, Society for Neuroscience, San Diego, CA, Organizer and Lecturer, "Assays for mouse social behaviors," November 2, 2007.
123. Neuroscience and Medicine Seminar Series, Pasteur Institute, Paris, France, "Developing mouse models of autism," November 15th, 2007.
124. Department of Pharmacology Seminar Series, University of Texas Health Science Center, San Antonio, TX, "Strategies for modeling the symptoms of autism in mice," November 28, 2007.
125. Development of Novel Neuropharmacological Therapeutics for Autism, Conference organized by Autism Speaks, Boca Raton, FL, "Assays with face validity for the behavioral symptoms of autism in mice," December 7th, 2007.
126. Frontiers in the Developmental Neurobiology of Autism, Autism Speaks/Wellcome Trust Symposium, London, UK, "Modeling the behavioral symptoms of autism in mice: Assays to test hypotheses and evaluate therapeutics," January 9th, 2008.
127. Seminar, Brain Cells Inc., San Diego, CA, "Behavioral assays for mouse models of neuropsychiatric disorders," January 29th, 2008.
128. Mouse Behavior Workshop, Autism Speaks, Baltimore, MD, "Mouse behavior assays relevant to the symptoms of autism," February 6th, 2008.
129. Neurobehavioral Genetics Seminar Series, University of California Los Angeles, "Strategies for behavioral phenotyping of mouse models of autism," March 20th, 2008.
130. NIDA Intramural Seminar Series, Baltimore, MD "Behavioral phenotyping of transgenic and knockout mice," April 15th, 2008.
131. Psychiatric Grand Rounds, University of Massachusetts Medical School, "Strategies for behavioral phenotyping of mouse models of autism," May 1st, 2008.
132. Roundtable Panel: Strategies to Assay Communication Deficits in Animal Models of Autism, International Meeting for Autism Research, London, UK, Organizer and presenter, May 17th, 2008.
133. Discovery Neuroscience Seminar, Wyeth Research, Princeton, NJ, "Assays for social behaviors in mouse models of autism, schizophrenia, depression, and social phobia," June 4th, 2008.
134. Congressional Biomedical Research Caucus, Rayburn House Office Building, Washington, DC, "Testing hypotheses about autism," June 11, 2008.
135. Neuron-Glia Interactions Symposium, International Behavioral Neuroscience Society Annual Meeting, St. Thomas, USVI, "Unusual background genes in the BTBR T+tf/J mouse model of autism include a kynurenic acid metabolic enzyme," June 20th, 2008.
136. Workshop on Biology of Social Cognition, Cold Spring Harbor Laboratory Conference, Lloyd Harbor, NY, "Social behaviors in mouse models of autism," July 18th, 2008.

137. Of Mice and Men: Relevance of Animal Models to Human Behavior Symposium, Stanford University, Palo Alto, CA, "Behavioral phenotyping assays for mouse models of autism," July 21st, 2008.
138. Phenotyping of Mutant Mouse Models, National Institute on Aging Workshop, Bethesda, MD, "Cognitive and motor phenotypes in inbred strains of mice used for breeding targeted gene mutations." July 28th, 2008.
139. Behavioural Genetics and its Relevance to Neuropsychiatric Disorders, European Behavioural Pharmacology Society International Workshop, Cork, Ireland, "What's Right With My Mouse?", August 26th, 2008.
140. Weill Cornell Medical College, Sloan-Kettering Cancer Center, Rockefeller University Tri-Institutional Investigator Seminar Series, "Behavioral phenotyping of mutant mouse models of human genetic disorders," September 17th, 2008.
141. Telethon Institute of Genetics and Medicine seminar series, Naples, Italy, "Behavioral phenotypes in mouse models of autism," September 24th, 2008.
142. Max Planck Institute of Experimental Medicine seminar series, Göttingen, Germany, "Strategies for behavioral phenotyping of mouse models of autism," September 26th, 2008.
143. Mouse Genetics and Genomics: Development and Disease, Cold Spring Harbor Laboratory, New York, "Behavioral Phenotyping assays for mouse models of autism," November 1, 2008.
144. American College of Neuropsychopharmacology, Panel: CNS Drug Discovery and Development: Challenges and Opportunities, Scottsdale, AZ, "Rodent behavioral endophenotypes as surrogate markers for neuropsychiatric disorders in CNS drug discovery," December 11th, 2008.
145. American College of Neuropsychopharmacology, Panel: Laying the Foundation for the Development of Therapeutics in the Autistic Spectrum: Targets, Models and Molecules, Scottsdale, AZ, "Behavioral assays to evaluate therapeutic efficacy in mouse models of autism," December 11th, 2008.
146. Children's Hospital, Harvard Medical School, Neurobiology Seminar Series, Boston, MA, "Behavioral phenotyping strategies for mouse models of autism," February 2nd, 2009.
147. Children's Hospital of Philadelphia Mental Retardation and Developmental Disabilities Research Center Seminar Series, Philadelphia, PA, "Phenotyping genetic mouse models of autism," February 10th, 2009.
148. California Institute of Technology, Caltech Brain Imaging Center seminar, Pasadena, CA, "The BTBR mouse as a model for autism," February 5th, 2009.
149. Texas A&M University Faculty of Neuroscience Colloquia Series, College Station, TX, "What is right with my mouse?" February 19th, 2009.
150. University of North Carolina at Greensboro Genomics Colloquia Series, Greensboro, NC, "Behavioral phenotyping of mutant mouse models of human genetic disorders," February 26th, 2009.
151. Lilly Neuroscience Discovery Research Seminar, Indianapolis, IN, "Behavioral assays to phenotype mouse models of autism: Strategies to identify targets for treatment discovery," March 4th, 2009.
152. University of Puerto Rico School of Medicine Anatomy and Neurobiology Seminar Series, San Juan, PR, "Mouse models of autism," March 26th, 2009.

153. Children's National Medical Center, Behavioral Medicine Grand Rounds, Washington, DC, "Behavioral phenotyping strategies for mouse models of autism," April 15th, 2009.
154. Autism Awareness Day Symposium, Albany, NY, "Using animal models to develop treatments for autism," April 22nd, 2009
155. Wadsworth Genetics Institute, Troy, NY, "Contributions of mouse behavioral genetics to discovering the causes of autism," April 23rd, 2009
156. University of Washington Genome Sciences Symposium, Seattle, WA, "Behavioral phenotyping strategies for mouse models of autism," April 30th, 2009
157. International Meeting for Autism Research, Chicago, IL, "Behavioral phenotyping strategies for translational evaluation of treatments in mouse models of autism," May 7th, 2009.
158. California Institute for Regenerative Medicine Autism Workshop, San Francisco, CA, "Behavioral phenotyping strategies for mouse models of autism," May 28th, 2009.
159. Cold Spring Harbor Laboratory Seminar, Cold Spring Harbor, NY, "Behavioral phenotyping strategies for mouse models of autism," August 21st, 2009.
160. NIMH Division of Developmental Translational Research Seminar, Bethesda, MD, "Behavioral phenotyping strategies for mouse models of autism," August 27th, 2009.
161. Georgetown University Interdisciplinary Program in Neuroscience Seminar, Washington, DC, "Mouse models of autism," September 8th, 2009.
162. University of California San Francisco Gladstone Institute of Neurological Disease Behavioral Neuroscience Symposium, San Francisco, CA, September 29th, 2009.
163. Neurobiology of Disease workshop on Neurobiology of Depression, Society for Neuroscience, Chicago, IL, discussion group leader, animal models of autism, October 16th, 2009.
164. Prader-Willi Workshop, Bethesda, Maryland, "Behavioral phenotyping assays for mouse models of neurodevelopmental disorders," November 16th, 2009.
165. Seminar series, Janelia Farm, Howard Hughes Medical Institute, Ashburn, VA, "Strategies for mouse behavioral phenotyping," November 24th, 2009.
166. Paying Attention to Synapses: Mouse Models of Childhood Neuropsychiatric Disorders Panel, American College of Neuropsychopharmacology, Hollywood, FL, Discussant, December 10th, 2009.
167. Neuroscience Seminar, University of Texas Southwestern, Dallas, TX, "Behavioral phenotyping strategies for mouse models of autism," January 12th, 2010.
168. Neuroscience Seminar, Dominick P. Purpura Department of Neuroscience, Albert Einstein College of Medicine, Bronx, NY, "Mouse models of autism to test hypotheses and develop treatments," January 20th, 2010.
169. Broad Foundation Lectures Series on Neurobiology and Disease, Duke University School of Medicine, Durham, NY, "Mouse models of autism to test hypotheses and discover treatments," February 23rd, 2010.

170. M.I.N.D. Institute Distinguished Lecture, University of California Davis, Sacramento, CA, "Mouse models of autism to discover causes and develop treatments," March 10th, 2010.
171. Center for Molecular Neuroscience and Kennedy Center, Vanderbilt University, Nashville, TN, "Mouse models of autism to test hypotheses about causes and to discover effective treatments," April 8th, 2010.
172. Distinguished Lecture in Neuroscience and Aging, National Institute on Aging Intramural Research Program, NIH, Baltimore, MD, "Strategies for phenotyping mouse models of autism," April 15th, 2010.
173. International Behavioural and Neural Genetics Society Annual Meeting, Halifax, Canada, "Behavioral phenotypes in BTBR T+tf/J mice relevant to the symptoms of autism," May 14th, 2010.
174. Keynote Lecture, International Meeting for Autism Research, Philadelphia, PA, "Mouse models of autism to test hypotheses and develop treatments," May 20th, 2010.
175. Cornell Summer Institute on the Biology of Neurodevelopmental Disorders, Ithaca, NY, "Mouse models of autism to test hypotheses and discover treatments," June 22nd, 2010.
176. Rett Foundation Symposium, Leesburg, VA, "Autism-like behavioral phenotypes in genetically modified mice," June 28th, 2010.
177. Child Health Institute of New Jersey, University of Medicine and Dentistry New Jersey, New Brunswick, NJ, "Mouse models of autism to test hypotheses about causes and to develop treatments," September 9th, 2010.
178. Skirball Institute Neuroscience seminar, New York University, New York, NY, "Mouse models of autism to test hypotheses about causes and to develop treatments," September 24th, 2010.
179. Department of Neuroscience seminar, Case Western Reserve University, Cleveland, OH, "Mouse models of autism to test hypotheses about causes and to develop treatments," September 29th, 2010.
180. Neuroscience seminar series, University of Maryland School of Medicine, Baltimore, MD, "Mouse models of autism to test hypotheses about causes and to develop treatments," October 7th, 2010.
181. Williams Syndrome conference, Allen Brain Institute, Seattle, WA, "Behavioral assays for mouse models of neurodevelopmental disorders," October 14th, 2010.
182. Department of Psychiatry and M.I.N.D. Institute seminar, University of California Davis, Sacramento, CA, "Mouse models of neurodevelopmental disorders," November 5th, 2010.
183. Elsevier Brain Research Satellite Meeting on Autism Spectrum Disorders, San Diego, CA, "Mouse models of autism," November 11th, 2010.
184. Institute for Behavioral Genetics seminar, University of Colorado, Boulder, CO, "Behavioral phenotyping of mouse models of autism: Towards testing hypotheses and discovering therapeutics," December 3rd, 2010.
185. Panel Session, American College of Neuropsychopharmacology annual meeting, Miami Beach, FL, "Behavioral assays in genetic mouse models to discover therapeutics for autism," December 9th, 2010.
186. Autism Speaks conference, Santa Monica, CA, Translational Medicine Research in Autism: Challenges and Opportunities, Santa Monica, CA, "Behavioral phenotyping strategies for genetic mouse models of autism," January 27th, 2011.

187. Simons Foundation Workshop on Behavioral Assays for Mouse Models of Autism, New York, NY, “Mouse behavior assays,” February 4th, 2011.
188. Phelan-McDermid Syndrome Foundation Symposium, New York, NY, “Behavioral analysis of *Shank3* mutant mice,” March 3rd, 2011.
189. University of New Mexico Neuroscience Day Keynote Lecture, Albuquerque, NM, “Mouse models of autism to test hypotheses about causes and to develop treatments,” March 11th, 2011.
190. Pfizer, Inc. Neuroscience Seminar, Groton, CT, “Discovering treatments for autism spectrum disorders with genetic mouse models,” April 13th, 2011.
191. New York Academy of Sciences Symposium on Autism Spectrum Disorders, New York, NY, “Mouse models of autism to test hypotheses about causes and to discover therapeutics,” April 26th, 2011.
192. Distinguished Scientist Award Lecture, International Behavioural and Neural Genetics Society, Rome, Italy, “Mouse models of autism to test hypotheses about causes and to discover treatments,” May 13th, 2011.
193. Kennedy-Krieger Institute, Baltimore, MD “Repetitive behaviors in mouse models of autism,” June 24th, 2011.
194. Simons Foundation Autism Biomarkers Workshop, Stony Brook, NY, “Mouse behavioral assays,” July 23rd, 2011.
195. National Institute of Mental Health Psychiatry Clinical Fellows Seminar, Bethesda, MD, “Mouse models of autism to test hypotheses about causes and to discover treatments” November 1, 2011.
196. Cell Symposium, Autism Spectrum Disorders, Washington DC, “Behavioral phenotyping strategies for genetic mouse models of autism,” November 9th, 2011.
197. EUROSPIN Conference, Edinburgh, Scotland, Synaptopathies: Genesis, Mechanisms and Therapy, January 24, 2012.
198. University of Iowa Pain Interest Group Seminar, Iowa City, IA, “Mouse models of autism to understand causes and discover treatments,” February 1, 2012
199. University of Kentucky Spring Neuroscience Research Day, Lexington, KY, “Mouse models of autism to understand causes and discover treatments,” March 29, 2012
200. Disorders of Synaptic Dysfunction, Jan and Dan Duncan Neurological Research Institute and *Science Translational Medicine*, “Translational mouse models to discover therapeutics for autism spectrum disorders,” Houston, TX, April 13, 2012.
201. Mouse Ultrasonic Vocalizations Workshop, Institut Pasteur, Paris, France, “Ultrasonic vocalizations in mice as an assay for the second diagnostic symptom of autism,” April 16, 2012.
202. Translational Neuroscience Symposium, Roche and *Nature Medicine*, Buonas, Switzerland, “Mouse models as translational tools to discover treatments for autism,” April 25, 2012.
203. Autism Reading Room Symposium, Koshland Museum, Washington, DC, “Mouse models as translational tools to discover therapeutics for autism spectrum disorders,” May 15, 2012

204. Health Sciences Leadership Meeting, University of California Davis, Sacramento, CA “Mouse models as translational tools,” August 16, 2012.
205. Autism Conference, Banbury Center, Cold Spring Harbor Laboratories, Cold Spring Harbor, NY, “Translational mouse models to discover therapeutic targets for autism spectrum disorders,” September 11, 2012.
206. Cognitive Enhancers, 22nd *Neuropharmacology* Elsevier Symposium, New Orleans, LA, “Discovering therapeutics for autism spectrum disorders using mouse models,” October 12th, 2012.
207. National Board of Advisors, University of California Davis School of Medicine, Sacramento, CA, “Mouse models as translational research tools,” October 29, 2012.
208. Neuroscience Day, University of Mississippi, Keynote Lecture, Jackson, MS, “Mouse models of autism to test hypotheses about the causes, and to discover treatments. November 30, 2013.
209. Biological Psychology Seminar, Department of Psychology, University of California Davis, Davis, CA, “Behavioral analyses of genetic mouse models of autism,” December 4, 2012.
210. Center for Neuroscience 20th Anniversary Symposium, University of California Davis, Davis, CA, “Mouse models of autism to test hypotheses about causes and to discover treatments, December 8, 2012.
211. Vice Chairs for Research Meeting, University of California Davis School of Medicine, Sacramento, CA, “Mouse models of autism for therapeutic discovery,” January 7, 2013.
212. Center for Autism Therapeutics Seminar, University of California Los Angeles, Los Angeles, CA, “Mouse models of autism for therapeutic discovery,” January 11, 2013.
213. Neuroscience Accelerator Workshop: Autism, Canadian Institute for Advanced Research, Toronto, Canada, “Mouse models of autism: behavioral phenotyping and treatment discovery,” February 20, 2013.
214. Translational Science Research Seminar, Alfred I. DuPont Hospital for Children, Wilmington, DE, “Mouse models of autism to test hypotheses about causes, and to discover treatments,” March 18th, 2013.
215. California Legislative Staff briefing, MIND Institute Sacramento, CA, “Preclinical discovery of treatments for autism,” April 19, 2013
216. Genentech Neuroscience Seminar, South San Francisco, CA, “Mouse models of autism to test hypotheses about causes and to discover therapeutics,” October 15th, 2013.
217. Neuroscience Graduate Program Seminar Series, University of California San Francisco, San Francisco, CA, “Mouse models of autism to test hypotheses and develop treatments,” January 17, 2014.
218. MIND Institute Research Seminar Series, UC Davis, Sacramento, CA, “Introduction to Preclinical Autism Consortium for Therapeutics,” January 24, 2014.
219. Autism Symposium, University of California Irvine, Irvine, CA, “Mouse models of autism to test hypotheses about causes and to discover therapeutics,” April 9th, 2014.
220. International Meeting for Autism Research, Atlanta, GA, “Preclinical Autism Consortium for Therapeutics,” April 30, 2014.

221. Simons Foundation 16p11.2 Workshop, New York, NY, “Comprehensive phenotypes of 16p11.2 deletion mice,” June 13, 2014.
222. RIKEN Brain Research Institute Summer Program, Tokyo, Japan, “Behavioral phenotyping strategies for mutant mouse models of neuropsychiatric disorders,” July 22, 2014.
223. University of California Comprehensive Cancer Center Research Symposium, Common Themes and Mechanisms in Cancer and Neurodevelopmental Disorders, Sacramento, CA, “Autism-relevant behavioral phenotypes in Pten mutant mice,” September 23, 2014.
224. Seminars in Translational Neuroscience, Center for Translational Medicine, University of Missouri School of Medicine, Jefferson City, MO, “Behavioral phenotyping strategies for mutant mouse models of neurodevelopmental disorders, October 6th, 2014.
225. Keynote Lecture, The Autism Conference, Thompson Center for Autism and Neurodevelopmental Disorders, University of Missouri, Columbia, MO, “Mouse models of autism to test hypotheses about causes and discover effective therapeutics,” October 7th, 2014.
226. Study Group, American College of Neuropsychopharmacology annual meeting, Phoenix, AZ, “Developing methods for cross-species research on impairing irritability in children,” December 9th, 2015.
227. Distinguished Medical Scientist Lecture, University of California Irvine, Irvine, CA, “Discovering pharmacological treatments for the diagnostic symptoms of autism using mouse models,” Friday January 9th, 2015.
228. Distinguished Lecture, CHI Health, Creighton University School of Medicine, Omaha, Nebraska, “Mouse models of autism to test hypotheses about causes,” January 28th, 2015.
229. Neuroscience Seminar, University of Wyoming, Laramie, WY, “Mouse models of autism to test hypotheses about causes and discover treatments,” March 28th, 2015.
230. Research Seminar Series, The Jackson Laboratory, Bar Harbor, ME, “Genetic mouse models of autism,” April 16th, 2015.
231. Press Conference, International Meeting for Autism Research, Salt Lake City, UT, “Introduction to Research Highlights,” May 13th, 2015.
232. Symposium Lecture, International Behavioral Neuroscience Society, Victoria, British Columbia, Canada, “Tribute to Bob Blanchard: Social behaviors in mouse models of autism,” June 6th, 2015.
233. Keynote Lecture, Mouse Phenotypes Workshop, Institut du Cerveau et de la Moelle épinière (ICM Brain and Spine Institute), Paris, France, “Mouse models of autism to test hypotheses and discover therapeutics.” June 15th, 2015.
234. Conte Center Neuroscience Seminar, Vanderbilt University, Nashville, TN, “Behavioral phenotyping strategies for mouse models of autism and neuropsychiatric disorders, July 17th, 2015.
235. Keynote Lecture, Society for the Study of Behavioral Phenotypes, London, UK, “Mouse models of autism to understand causes and develop treatments,” September 5th, 2015.
236. Neuroscience Seminar, Children’s Hospital Boston, Harvard University, Boston, MA, “Mouse models of autism to test hypotheses and discover therapeutics,” September 9th, 2015.

237. Molecular Psychiatry Association, San Francisco, CA, “Mouse models of autism to test hypotheses, and for preclinical evaluation of potential therapeutics,” October 30-November 1, 2015.
238. NIH Postdoctoral Research Associate Training Program 50th Anniversary Symposium, Bethesda, MD, “Mouse models of autism to test hypotheses about causes and to discover treatments,” November 6th, 2015.
239. Science Seminar, Institute for Pediatric Regenerative Medicine, Shriners’s Hospital, Sacramento, CA, “Mouse models of autism to test hypotheses about causes and to discover effective therapeutics,” January 15th, 2016.
240. Department of Neuroscience Seminar, Baylor College of Medicine, Houston, TX, “Mouse models of autism to test hypotheses about causes and to discover effective therapeutics,” March 11, 2016.
241. Neurotherapeutics Discovery and Development for Academic Scientists, Bethesda, MD, “Preclinical Behavioral Pharmacology,” March 17-19, 2016.
242. Keynote Speaker, Fourth Annual Neuroscience Symposium, Kent State University, Kent, OH, “Mouse models of autism to test hypotheses about causes and to discover effective treatments,” April 8, 2016.
243. TED-like Talk, Autism Science Foundation Afternoon of Learning, New York, NY, “What can we learn from mouse models of autism?”, April 14, 2016.
244. Neuroscience Seminar, Mt. Sinai School of Medicine, New York, NY, “Mouse models of autism to test hypotheses about causes and to discover effective therapeutics,” May 5, 2016.
245. Elsevier Distinguished Lecturer, Fortieth Annual Meeting of the Developmental Toxicology Society, San Antonio, TX, June 27, 2016.
246. Banbury Meeting on Animal Models, Cold Spring Harbor, NY, “Translational mouse models of autism to understand causes and discover therapeutics,” August 22, 2016.
247. Department of Pharmacology seminar series, University of Texas San Antonio, “Mouse models of autism to identify genetic causes and to discover pharmacological therapeutics,” September 6, 2016.
248. Distinguished Lecture, Center for Autism Research and Treatment, University of California Los Angeles, Los Angeles, CA, “Mouse models of autism for the discovery of effective therapeutics,” January 13, 2017.
249. Neuroscience Institute Seminar, Florida Atlantic University, Boca Raton, FL, “Mouse models of autism: Probing genetic causes and testing novel therapeutics,” February 21, 2017.
250. Plenary Lecture, Gatlinburg Conference On Research and Theory in Intellectual and Developmental Disabilities, San Antonio, TX, “Mouse models of autism to discover effective therapeutics,” March 8, 2017.
251. Biopsychology Seminar, Department of Psychology, University of California Davis, Davis, CA, “Mouse models of autism for the discovery of effective therapeutics,” October 3, 2017.
252. Opening Lecture, The Jackson Laboratory Course in Principles and Techniques in Mouse Behavioral Phenotyping and Pharmacology, “Principles and techniques in mouse behavioral phenotyping and pharmacology,” Bar Harbor, ME, October 22, 2017.
253. Noldus Neuroscience Seminar, Translational approaches to the study of Autism Spectrum Disorders: methodological and technical trends, innovations and challenges, Washington, DC, “Preclinical discovery of

- pharmacological therapeutics for autism using mouse models of social deficits and repetitive behaviors,” November 10, 2017.
254. MIND Institute Research Seminar, University of California Davis School of Medicine, Sacramento, CA, “Translational animal models,” January 5, 2018.
 255. Human Genomics Seminar, University of California Davis School of Medicine, Sacramento, CA, “Behavioral consequences of mutations in risk genes for autism using translational mouse models,” March 7, 2018.
 256. University of Ottawa, Ottawa, Ontario, Canada, “Behavioral phenotyping of genetic mouse models of autism,” March 23, 2018.
 257. Institute for Neuroscience Seminar, George Washington University, Washington, DC, “Discovering pharmacological therapeutics for autism using translational mouse models,” April 12, 2018.
 258. Neuroscience Lecture, Santa Clara University, Santa Clara, CA, “Mouse models of autism to test hypotheses about causes and to discover treatments,” May 1, 2018.
 259. American Medical Student Association Lecture, American River College, Sacramento, CA, “Behavioral neuroscience research: How does the brain work?” September 7, 2018.
 260. University of Cincinnati, Cincinnati, OH, “Mouse models of autism to test hypotheses about causes and to discover treatments,” October 4, 2018.
 261. Intellectual and Developmental Disabilities Research Center Directors Meeting, Boston, MA, “Strengths and limitations of mutant mouse models of intellectual and developmental disabilities for preclinical therapeutic discovery,” November 18, 2018.
 262. Neuroscience Lecture, California Northstate University, Rancho Cordova, CA, “Mouse models of autism to test hypotheses about causes and to discover treatments,” November 20, 2018.
 263. University of Nebraska Medical School Seminar, Omaha, NE, “Evaluating behavioral phenotypes in mouse models of autism,” December 6, 2018.
 264. American Association for the Advancement of Science Symposium lecture, Washington, DC, “Preclinical discovery of pharmacological therapeutics for autism spectrum disorder employing translational mouse models,” February 16, 2019
 265. University of Pittsburgh and Carnegie Mellon Keynote Lecture, Center for Neural Basis of Cognition Retreat, Seven Springs, PA, “Mouse models of autism to test hypotheses about causes and to discover effective treatments,” June 1, 2019.
 266. First International Touchscreen Symposium, Western University, London, Ontario, Canada, “Using touchscreen tasks to evaluate animal models of neurodevelopmental disorders,” June 5, 2019.
 267. University of Iowa Pediatric Neurology Seminar, Iowa City, IA, “Mouse models of autism to test hypotheses about causes and to discover effective treatments,” June 24, 2019.
 268. University of Buffalo School of Medicine, Buffalo, NY, “Mouse models of autism to test hypotheses about causes and to discover treatments,” September 19, 2019.

269. Karen Gale Memorial Lecture for Outstanding Women in Neuroscience, Department of Pharmacology and Interdisciplinary Program in Neuroscience, Georgetown University School of Medicine, Washington, DC, “Translational mouse models of autism,” October 10th, 2019.
270. Universidad Autonoma de Tlaxcala, Mexico, International Symposium (virtual): Autism Research Using Rodent Models, “Behavioral phenotyping of mouse models of autism,” November 23, 2020.
271. International Behavioral and Neural Genetics Society (virtual seminar), “Behavioral phenotyping of mouse models of autism,” December 16, 2020.
272. University of Pennsylvania Biological Basis of Behavior/Neuroscience Program Honors Seminar (virtual), “Mouse models of autism: Testing hypotheses about causes and discovering effective treatments,” February 21, 2021.

LABORATORY PERSONNEL

POSTDOCTORAL FELLOWS:

1. DRUGAN, Robert C., 1984-87. Current affiliation: Department of Psychology, University of New Hampshire, Durham, NH
2. KALTWASSER, Maria T., 1985-86. Current affiliation: Berlin-Chemie, Berlin, Germany
3. MASTROPAOLO, John, 1986-88. Current affiliation: Department of Psychiatry, Veterans Administration Hospital and Georgetown University, Washington, DC
4. COTTINGHAM, Sandra L., 1987-89. Current affiliation: Department of Pathology, Spectrum-Health, Grand Rapids, MI
5. AUSTIN, Mark C., 1988-91. Current affiliation: Department of Psychiatry, University of Pittsburgh, Pittsburgh, PA
6. HURD, Jasmin, 1988-89. Current affiliation: Department of Psychiatry, Icahn School of Medicine, Mount Sinai, New York, NY.
7. de BARTOLOMEIS, Andrea, 1990-92. Current affiliation: Department of Psychiatry, University of Naples, Italy.
8. CORWIN, Rebecca L., 1991-94. Current affiliation: Department of Nutrition, Pennsylvania State University, University Park, PA.
9. ROBINSON, John K., 1991-94. Current affiliation: Department of Psychology, State University of New York, Stony Brook, NY.
10. MATHIS, Chantal, 1992-93. Current affiliation: CNRS, Universite Louis Pasteur, Strasbourg, France.
11. HOLMES, Philip V., 1992-95. Current affiliation: Department of Psychology, University of Georgia, Athens, GA.
12. SILLS, Terrence L., 1994-96. Current affiliation: Clarke Institute of Psychiatry, Toronto, Canada.
* **Received NIH Fellows Award for Research Excellence, 1995**
13. TABER, Matthew, 1996-97. Current affiliation: Bristol-Myers Squibb Inc., Wallingford, CT.
14. PAYLOR, Richard, 1995-98. Current affiliation: Department of Molecular and Human Genetics, Baylor College of Medicine, Houston TX.
15. GLEASON, Theresa, 1997-1998. Current affiliation: Neuroscience Program, Veterans Administration, Washington, DC.
16. McDONALD, Michael, 1994-99. Current affiliation: Department of Pharmacology, Vanderbilt University, Nashville, TN.
* **Received NIH Fellows Award for Research Excellence, 1997**

17. MIYAKAWA, Tsuyoshi, Visiting Postdoctoral Fellow, 1998-1999. Current affiliation: Tenure track faculty member, Department of Psychology, Kyoto University, Japan
18. KINNEY, Jefferson W., Postdoctoral Fellow, Intramural Research Training Award, 2000-2002. Current affiliation: Department of Neuropharmacology, Scripps Research Institute, La Jolla, CA.
19. HOLMES, Andrew, Postdoctoral Fellow, Intramural Research Training Award, 1998-2003. Current affiliation: Tenure-track faculty member, Intramural Research Program, National Institute on Alcoholism and Alcohol Abuse, Rockville, MD.
* *Received NIH Fellows Award for Research Excellence, 2000*
ACNP/Bristol-Myers Squibb Travel Award Winner, 2001
20. WRENN, Craige C., Postdoctoral Fellow, Intramural Research Training Award, 1999 - 2004. Current affiliation: Tenure-track faculty member, School of Pharmacy, Drake University, Des Moines, IA.
21. RUSTAY, Nathan R., Postdoctoral Fellow, Intramural Research Training Award, 2004-2006. Current affiliation: Investigator, Cognition Program, Abbott Laboratories, Abbott Park, IL.
22. BAILEY, Kathleen R., Postdoctoral Fellow, Intramural Research Training Award, 2004-2007. Current affiliation: Assistant Professor, Department of Psychology, Susquehanna University, Susquehanna, PA.
23. SCATTONI, Maria Luisa, Postdoctoral Fellow, Special Volunteer, 2006 and 2008. Current affiliation: Section of Neurotoxicology and Neuroendocrinology Department of Cell Biology and Neurosciences, Istituto Superiore di Sanità, Rome Italy.
24. CHADMAN, Kathleen, Postdoctoral Fellow, Intramural Research Training Award, 2007-2008. Current affiliation: Faculty member, New York State Institute for Basic Research in Neurodevelopmental Disorders, Staten Island, NY.
25. ROULLET, Florence, Postdoctoral Visiting Fellow, 2008 – 2010, Hamilton, Ontario, Canada
26. WÖHR, Markus, Postdoctoral Fellow, Visiting Fellow, 2008 – 2009. Current affiliation: Faculty member, Department of Psychology, University of Marburg, Marburg, Germany.
27. BABINEAU, Brooke, Postdoctoral Fellow, Intramural Research Training Award, 2010-2012. Current affiliation: Postdoctoral fellow, University of California San Francisco, San Francisco, CA.
28. BRIELMAIER, Jennifer, Postdoctoral Fellow, Intramural Research Training Award, 2010-2012. Current affiliation: Faculty, George Mason University, Fairfax, VA.
29. SILVERMAN, Jill, Senior Research Laboratory Manager, NIMH IRP, 2007 – 2012. Current affiliation: Adjunct Assistant Professor, Department of Psychiatry, University of California Davis School of Medicine, 2012 - present
30. YANG, Mu, Postdoctoral Fellow, 2007 – 2009, Research Fellow, 2010 – 2012, NIMH IRP. Current affiliation: Adjunct Assistant Professor, University of California Davis School of Medicine, 2012 – present.
31. KAZDOBA, Tatiana, Postdoctoral Fellow, 2014 – 2016. Current affiliation: Sage Therapeutics, Cambridge, MA
32. LEACH, Prescott, Postdoctoral Fellow, 2014 – 2016. Current affiliation: Biogen, Cambridge, MA
33. PARROTT, Jennifer, Postdoctoral Fellow, 2016 – 2017. Current affiliation: University of Texas San Antonio

PREDOCTORAL STUDENTS

GRADUATE STUDENTS, MEDICAL STUDENTS, POSTBACCALAUREATE FELLOWS:

1. LIBBEY, Megan, 1996-97. Current affiliation: NIMH Scientific Review Administrator
2. DREILING, Jennifer, Postbaccalaureate, 2003-2004. Current affiliation: US Naval Medical Officer, National Naval Medical Center, Bethesda, MD
3. CUASAY, Katrina, 2004-2005.
4. LIM, Maria, Postbaccalaureate, 2005-2006. Present affiliation: Graduate student, Neuroscience Program, University of Pennsylvania School of Medicine, Philadelphia, PA

5. KARLSSON, Rose-Marie, Graduate Student, Co-Mentorship with Markus Heilig, NIH/Karolinska Institutet Graduate Program, 2003-2008. Present affiliation: Postdoctoral fellow, University of Maryland
6. STACK, Conor, Postbaccalaureate IRTA, 2006-2007. Present affiliation: Medical student, University of Syracuse
7. GANDHY, Shruti, Postbaccalaureate IRTA, 2007-2008. Present affiliation: Medical student, University of Texas
8. BARKAN, Charlotte, Postbaccalaureate IRTA, 2008-2009. Present affiliation: Graduate student, Neurobiology Program, Columbia University
9. WEBER, Michael, Postbaccalaureate IRTA, 2008-2009. Present affiliation: Graduate student, Department of Psychology, University of Colorado
10. HARRIS, Mark, Postbaccalaureate IRTA, 2009-2010. Present affiliation: Medical student, Columbia University
11. KATZ, Adam, Postbaccalaureate IRTA, 2009-2010. Present affiliation: Graduate student, Georgetown University
12. SAXENA, Roheeni, Postbaccalaureate IRTA, 2009-2010. Present affiliation: Graduate student, Columbia University
13. TURNER, Sarah, Postbaccalaureate IRTA, 2009 – 2011.
14. ABRAMS, Danielle, Postbaccalaureate IRTA, 2010 – 2011. Present affiliation: Research assistant, Washington Children's Hospital
15. ZHANG, James, Postbaccalaureate IRTA, 2010-2011. Present affiliation: Medical student, Emory University
16. GASTRELL, Philip, Postbaccalaureate IRTA, 2011 – 2012. Present affiliation: Medical student, Duke University
17. KARRAS, Michael, Postbaccalaureate IRTA, 2010 – 2012. Present affiliation: Medical student, University of Kentucky
18. KALIKHMAN, David, Postbaccalaureate IRTA, 2011 – 2012. Present affiliation: Postbaccalaureate, NINDS
19. OLIVER, Chicora, Postbaccalaureate IRTA, 2011 – 2012. Present affiliation: Postbaccalaureate, NIMH
20. SENERTH, Julia, Postbaccalaureate IRTA, 2011 – 2012. Present affiliation: Intern, American Psychological Association
21. HAYES, Jane, UC Davis Junior Specialist, 2013 – 2014
22. LEWIS, Freeman, Junior Specialist, 2013 – 2015. Present affiliation: Intern, Genentech
23. PUHGER, Kyle, Junior Specialist, 2013 – 2015. Present affiliation: Research assistant, Department of Psychology, University of California Davis
24. COPPING, Nycole, Junior Specialist, 2014 – 2016. Present affiliation: Staff Research Associate, University of California Davis School of Medicine
25. SCHAFFLER, Melanie, Junior Specialist, 2015 – 2017, Present affiliation: Graduate student, Neuroscience Program, University of Pennsylvania
26. RHINE, Maya, Junior Specialist, 2016 – 2017, Present affiliation: Medical student, University of Chicago.
27. SCHULTZ, Maria, Junior Specialist, 2016 – 2018
28. DUTTA, Rebecca, Medical Student, 2018 – present
29. PRIDE, Michael, Junior Specialist, 2012 – 2016, Staff Research Associate, 2016 – 2019
30. FRANZETTI, Tristan, Junior Specialist, 2019 – present

VISITING SCIENTISTS:

1. ESTALL, Lorna, 1985. Department of Psychology, University of Durham, England, UK.
2. DE WITTE, Philippe, 1988. Department of Psychobiologie, Universite Catholique Louvain, Belgium.

3. LAITINEN, Kirsti, 1988-90. Department of Pharmacology, University of Kuopio, Finland.
4. DE MESQUITA, Susan, 1988-89. Department of Physiology, Marshall University School of Medicine, Huntington, WV.
5. GENC, Ece, 1989. University of Istanbul, Turkey.
6. IISMAA, Tina, 2001. Garvan Medical Research Institute, Sydney, Australia
7. HEILIG, Markus, 2001. Karolinska Institute, Huddinge, Sweden
8. MCFARLANE, Hewlet, 2006. Kenyon College, Gambier, OH

STAFF SCIENTISTS AND TECHNICIANS:

1. Lisa Blumstein, 1981-83
2. Jill Stivers, 1983-87
3. Joanna Hill-Devine, 2006-09
4. Tim Sullivan, 2004-2006

STUDENT VOLUNTEERS:

1. WHITE, Marsha, 1985, St. Mary's College of Maryland
2. SMITH, Courtney, 1985, Bethesda-Chevy Chase High School
3. KALINA, Ken, 1986, Gustavus Adolphus College, St. Peter, MN
4. KHOSLA, Sareena, 1986-87, Madeira School, McLean, VA
5. RHOW, Ekwan, 1986, Walt Whitman High School, Bethesda, MD
6. UPADYA, Yogita, 1987-88, Madeira School, McLean, VA
7. POTTER, Marie, 1988-90, Trinity University, TX
8. CHI, Angela, 1988, Churchill High School Potomac, MD
9. TURNER, Anne-Marie, 1988-89, Madeira School, McLean, VA
10. REINSCH, Marianna, 1989, West Virginia Wesleyan College, Buckhannon, WV
11. WEST, Howard, 1989, Princeton University, Princeton, NJ
12. TURNER, Eric, 1989, Oregon Health Sciences University School of Medicine
13. MINKUNAS, Darin, 1990, Ohio State University, Columbus, OH
14. BHATIA, Neeti, 1989-90, Winston Churchill High School, Bethesda, MD
15. BROWN, Nathan, 1990, Montgomery Blair High School, Silver Spring, MD
16. HALBERSTADT, Jamin, 1990, Swarthmore College, Swarthmore, PA
17. EVERS, John R., 1989-90, Case Western Reserve University, Cleveland, OH
18. COUNTS, Helen, 1989-90, Madeira School, McLean, VA
19. CHOU, Jeanne, 1990-91, Madeira School
20. FARMER, Charles, 1991, Kenyon College
21. LAWRENCE, Brenda, 1991, Smith College, Northampton, MA
22. HODZIEWICH, Gabriel, 1991-92, St. Andrew's High School (Teacher), Bethesda, MD
23. LAWANDE, Reena, 1991-92, Madeira School, McLean, VA
24. JORN, Andreas, 1992, Gustavus Adolphus College, St. Peter, MN
25. KOPRIVICA, Vuk, 1992-93 Bethesda-Chevy Chase High School, Bethesda, MD
26. BUCKHOLTZ, Joshua, 1992, Churchill High School, Potomac, MD
27. HIGGINS, Karen, 1992, Colgate University
28. LAM, Natalie, 1992-93, Madeira School, McLean, VA
29. SHADER, David, 1992-93, St. Andrew's High School, Bethesda, MD
30. ROWE, Paula, 1993-94, Spring Valley High School (Teacher), Silver Spring, MD
31. HARDY, Melva, 1993-94, Walter Johnson High School, Bethesda, MD
32. KOPRIVICA, Uros, 1993-94, Bethesda-Chevy Chase High School, Bethesda, MD
33. O'MARA, John, 1993, Colgate University
34. WEDDLE, Meagan, 1993-94, Madeira School, McLean, VA

35. MOORSHEAD, Ashley, 1994-95, Madeira School, McLean, VA
36. CARRILO, Jose Miguel, 1994-95, Albert Einstein High School, Silver Spring, MD
37. McCOMAS, Elena, 1995, Magruder High School (Teacher), Rockville, MD
38. BIZRI, Carolyn, 1995, Boston College
39. DRUMMOND, Melody, 1995, Governors School for Science and Math, Hartsville, SC
40. ONALAJA, Ava, 1995-96, Montgomery Blair High School, Silver Spring, MD
41. KALRA, Simrun, 1995-96, Madeira School, McLean, VA
42. SCHLAIFER, Jonathan, 1996, Montgomery Blair High School, Silver Spring, MD
43. HERSCOVITCH, Penny, 1996, Sidwell Friends High School, Washington, DC
44. MILLER, Katherine, 1996-97, Walter Johnson High School, Bethesda, MD
45. LIGLER, Amy, 1997, Wake Forest University, Winston-Salem, NC
46. BRYANT, Katherine, 1997, Atholton High School, Columbia, MD
47. NGUYEN, Michelle, 1997-98, Albert Einstein High School, Silver Spring, MD
48. ARAUJO, Kristlyn, 1997-98, Seneca Valley High School, Germantown, MD
49. DREILING, Jennifer, 1997-98, Madeira School, McLean, VA,
1999, 2000, 2001 Wellsley College, Middletown, MA
50. ARIEFF, Alexis, 1998, Ecole Active Bilingue Jeannine Manuel, Paris, France
51. LUO, Mulon, 1998-99, Walt Whitman High School, Bethesda, MD
52. GUTSHALL, Mitchell, 1998-99, Walter Johnson High School, Bethesda, MD
53. DE SOLE, Laura, 1999-2000, Madeira School, McLean, VA
54. YARED, Edom, 1999-2000, Kennedy High School, Silver Spring, MD
55. THAYER, Karen, 2000, Walt Whitman High School, Bethesda, MD
56. YANG, Rebecca, 2000-2001, Spring Brook High School, Silver Spring, MD
57. STAROSTA, Grzegorz, 2000-2001, Rockville High School, Rockville, MD
58. TIGNOR, April, 2000, Cornell University Medical School, New York, NY
59. LONG, Kassy, 2000-2001, Madeira School, McLean, VA
60. HARRIS, Ashley, 2000-2001, Walt Whitman High School, Bethesda, MD
61. SAAVEDRA, Maria, 2001-2002, Walter Johnson High School, Bethesda, MD
62. INNERFIELD, Caitlin, 2001-2002, Sherwood High School, Brookeville, MD
63. VISHWANATH, Janani, 2001-2002, Walt Whitman High School, Bethesda, MD
64. CURLEY, Allison, 2002, Colgate University, Hamilton, NY
65. SCHLOSSER, Sophie, 2002-2003, Walter Johnson High School, Bethesda, MD
66. GOLD, Eric, 2002-2003, Quince Orchard High School, Gaithersburg, MD
67. KLAUS, Michael, 2003, Landon School, Bethesda, MD
68. STEPHENSON, Dejaimenay, 2003-2004, John F. Kennedy High School, Silver Spring, MD
69. KOENIG, Elizabeth, 2003-2004, Paint Branch High School, Burtonsville, MD
70. FLORES, Sandra, 2004, University of Maryland, College Park, MD
71. COHEN, Jordan, 2004-2005, Winston Churchill High School, Potomac, MD
72. TOLU, Selen, 2004-2005, James Hubert Blake High School, Silver Spring, MD
73. MORRIS, Tabitha, 2005-2006, Bethesda-Chevy Chase High School, Bethesda, MD
74. CHEN, Thomas, 2005-2006, Winston Churchill High School, Potomac, MD
75. WASHBURN, Richard, 2005-2006, Walt Whitman High School, Bethesda, MD
76. PURI, Amit, Thomas S. Wooten High School, Rockville, MD
77. FREEMAN, Anike, 2006-2007, Damascus High School, Damascus, MD
78. ZHODZISHSKY, Vladimir, 2006-2007, Thomas S. Wooten High School, Rockville, MD
79. BOLTUCK, Sarah, 2007-2008, Walt Whitman High School, Bethesda, MD
80. CLARKE, Andrew, 2007-2008, Gaithersburg High School, Gaithersburg, MD
81. TOLU, Seda, 2008-2009, 2010, Magruder High School, Gaithersburg, MD
82. PERRY, Kayla, 2008-2009, Blake High School, Silver Spring, MD
83. DIAGNE, Dieynaba, 2009 – 2010, James Blake High School, Silver Spring, MD
84. WOLDEYOHANNES, Leuk, 2009 – 2010, Wheaton High School, Wheaton, MD,
85. SIMON, Harrison, 2010-2011 Winston-Churchill High School, Potomac, MD
86. LOUREIRO, Darren, 2011-2012, Bethesda-Chevy Chase High School, Bethesda, MD

87. BUTLER-STRUBEN, Hanna, 2013-2015, University of California Davis
88. ESPIRITU, Nathaniel Franc, 2013, University of California Davis
89. FOLEY, Gillian, 2013-2015, University of California Davis
90. BAKER, Sammy, 2013-2015, University of California Davis
91. MCELROY, Amy, 2014-2015, University of California Davis
92. KIM, Phirun, 2014-2016, University of California Davis
93. SARVI, Michael, 2015-2016, University of California Davis
94. LIOW, George, 2015-2016, University of California Davis
95. WHITE Steven, 2015-2016, University of California Davis
96. FRIEDMAN, Adam, 2015, Rio Americano High School, Sacramento, CA