

# CURRICULUM VITAE

James Michael Tepper

February 2020

## CURRENT POSITION

Board of Governors Professor of Molecular and Behavioral Neuroscience  
Distinguished Professor  
Rutgers, The State University of New Jersey  
Aidekman Research Center  
Center for Molecular and Behavioral Neuroscience  
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Newark, NJ 07102 USA

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## EDUCATION

- 1983 Ph.D., Biological Psychology, Department of Psychology, University of Colorado, Boulder, CO
- 1979 M.A., Biological Psychology, Department of Psychology, University of Colorado, Boulder, CO
- 1975 B.A., Psychology, Department of Psychology, University of Colorado, Boulder, CO

## PROFESSIONAL EXPERIENCE

- |                           |   |
|---------------------------|---|
| July 2019- present        | Board of Governors Professor of Molecular and Behavioral Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ            |
| July 2006 - present       | Distinguished Professor, Center for Molecular and Behavioral Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ        |
| June 2006-present         | Adjunct Professor, Department of Neurosciences, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, NJ |
| May 2004- September 2004- | Visiting Scientist, MRC Anatomical Neuropharmacology Unit, Oxford University, Oxford, UK  |
| October 1998 to June 2006 | Professor, Center for Molecular and Behavioral Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ                      |

- April 1995 to May, 2006 Adjunct Associate Professor, Department of Neurosciences, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, NJ
- July 1993 to September 1998 Associate Professor, Center for Molecular and Behavioral Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ
- February 1990 to June 1990 Visiting Assistant Professor, Department of Psychology, Princeton University, Princeton, NJ
- July 1989 to March 1995 Adjunct Assistant Professor, Department of Neurosciences, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, NJ
- September 1987 to June 1993 Assistant Professor, Center for Molecular and Behavioral Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ
- February 1987 to August 1987 Assistant Research Psychobiologist, Department of Psychiatry, University of California San Diego School of Medicine, La Jolla, CA
- February 1986 to January 1987 Post-Graduate Researcher, Department of Psychiatry, University of California San Diego School of Medicine, La Jolla, CA
- July 1980 to January 1986 Staff Research Associate I-IV, Department of Psychiatry, University of California San Diego School of Medicine, La Jolla, CA

## HONORS

- 2019 Board of Governors Professor of Molecular and Cellular Neuroscience, Rutgers, The State University of New Jersey, Newark, NJ
- 2014 Rutgers Board of Trustees Award for Excellence in Research
- 2009 Fellow of the American Association for the Advancement of Science
- 2004-2013 President-Elect, President, Past President, International Basal Ganglia Society
- 1994-1995

1987-1989	Henry Rutgers Research Fellowship
1976-1977	All University Fellowship, University of Colorado, Boulder, CO.

## GRANTS

(J.M. Tepper, Ph.D. is PI unless otherwise noted. Excluding regular research grants on which Dr. Tepper has no listed percent effort. **Internal Rutgers grants are not listed.**)

2018-2023	NINDS 5R01NS034865-20-24., Characterization and connectomics of striatal interneurons”, \$3,082,474 (total costs).
2017-21019	NJ Governor’s Council for Medical Research and Treatment of Autism/NJ Dept of Health (grant #CAUT17BSP022) “A role for semaphorin functions in portico-basal ganglia development, repetitive behavior, and autism spectrum disorder”, T.Tran, P.I., J.M. Tepper and M. W. Shiflett Co-PIs. \$400,000 (total costs), \$71,484 for J.M. Tepper (total costs).
2016-2017	NINDS 3R01NS034865-18S1, “Functional Striatal Microcircuits in vivo and in vitro”, Supplement, \$50,000 (Direct Costs only).
2017-2021	NINDS R01 NS097530-01, “Role of LRRK2 in Striatal Synaptic Transmission”, H. Zhang, PI. JM Tepper, Co-I (0.12 months % effort), \$1,250,000 (Direct Costs).
2013-2018	NINDS 5R01NS034865-15-19, “Functional Striatal Microcircuits in vivo and in vitro”, \$2.6M (total costs)
2011-2017	NINDS 1R01NS072950-01 “Optogenetic Analysis of Neostriatal Circuits Engaged by Cholinergic Interneurons”, T. Koós and J.M. Tepper, Co-PIs., \$1,684,375 (total costs).
2010-2011	NINDS 3R01NS034865-12S1 “Nigrostriatal Dopamine Function”, \$63,500 (total costs)
2010	NINDS 1R13NS070488-01 “10th Triennial Meeting of the International Basal Ganglia Society” \$20,000 (direct costs)
2010-2012	CHDI Foundation Inc. “Adaptations in the Globus Pallidus and Subthalamic Nucleus of BACHD and HdhQ140 Mice” \$205,159 (total costs)
2009-2013	NINDS 5R01 NS 034865-12-15 “Nigrostriatal Dopamine Function” \$1,405,589 (total costs).
2009	NINDS 5R01 NS 034865-11S1 “Nigrostriatal Dopamine Function”, \$98,454 (direct costs)
2008-2009	NINDS 2R01 NS 034865-11 “Nigrostriatal Dopamine Function” (1 year at \$386,250 total cost).

- 2008-2009 Hereditary Disease Foundation “Basal Ganglia Function in Huntington's Disease: Genetic Mouse Models”, Co-P.I.s, Elizabeth Abercrombie, J.M. Tepper, \$75,000 total direct costs.
- 2008-2013 NINDS 1R01 NS059921-01A1 “Basal Ganglia Function in Huntington's Disease: Genetic Mouse Models”, P.I. Elizabeth Abercrombie, Co-I. J.M. Tepper, 16% effort, \$1,689, 845 (total costs).
- 2006-2008 Howard Hughes Medical Institute, “Development of a Quantitative Neuroscience Program”, James M. Tepper, Robert Miura, Joshua Berlin, Co-PIs., \$1,000,000.
- 2006-2011 NNDS 1R01 NS052370 “Dopamine modulation of neostriatal circuitry”, P.I.: Tibor Koós, Co-I.; J.M. Tepper 8% effort, \$1,590,414.
- 2004 Human Frontiers Science Project Short Term Fellowship
- 2003-2006 NSF 0320964 “Acquisition of a Flexible Multiphoton System for Studies of Neuronal Plasticity”, \$393,652 (including cost sharing). P.I.: E. Nimchinsky, Co-P.I.s: E.D. Abercrombie, D. Paré, J.M. Tepper and L. Zaborszky.
- 2003-2008 NINDS 2 R01 NS 34865 “Nigrostriatal Dopamine Function”, \$1,681,129
- 2002-2003 Johnson and Johnson Discovery Research Award “Neurophysiology And Neuropharmacology Of Dendritic Dopamine Release”, \$20,000 (E.D Abercrombie and J.M. Tepper, Co-PIs).
- 2001-2002 New Jersey Commission on Higher Education, “Biomedical and Other Technology Research Capacity-Building Funds”, \$200,000.
- 2000-2001 NINDS 3R01 NS34865-4S1 “Anatomy and Physiology of Substantia Nigra Afferents” Infrastructure Supplement, \$50,000
- 1999-2000 NCRR 1 S10 RR10473 “Philips CM100 “Electron Microscope”, L. Zaborszky, P.I., G. Buzsaki, A. Cali, T. Perney and J.M. Tepper, Co-Investigators, \$279, 293.
- 1998-2001 NIMH 5R03 MH 58885 “Internal Microcircuitry of the Rat Neostriatum”, \$150,670.
- 1997- 2002 NINDS 5R01 NS 34865 “Anatomy and Physiology of Substantia Nigra Afferents”, \$957,046.
- 1996-2000 NIMH 5R01 MH 52450 “Electrophysiology of CNS Dopamine Receptor Knockout”, \$384,816.
- 1995-2004 NIGMS 2S06 GM 08223-16 “Minority Biomedical Research Support Grant”, P.I. B. R. Komisaruk, J.M. Tepper, Associate Investigator , \$152,214.
- 1994-2000 NSF BIR-9413198 Research Training Grant "Cellular and Molecular Biodynamics" Frank Jordan, P.I., J.M. Tepper, E. Bonder and D. Murnick, Co- P.I.s, \$1,810,000.

- 1994-1995 Johnson and Johnson Discovery Fund "Electrophysiological Consequences of Antisense Knockout of Dopamine Receptors *in vivo*", \$20,000 (J.M. Tepper and Ian Creese, Co-P.I.s).
- 1994-1995 Hoechst-Celanese Innovative Research Award "Antisense Knockout of CNS Dopamine Receptors", \$20,000, (J.M. Tepper and Ian Creese, Co-P.I.s).
- 1992 NIMH 1 S15 MH 50854-01 "Small Instrumentation Grant Program", \$18,515 (J.M. Tepper and R.P. Hart, Co-P.I.s).
- 1992-1996 NINDS 1R01 NS 30679 "Postnatal Development of Rat Basal Ganglia", \$434,621.
- 1988-1994 NIMH 1R29 MH 45286 "Schizophrenia and Afferent Control of Dopamine Neurons" \$542,560.
- 1988-1989 Pharmaceutical Manufacturers Association Foundation Research Starter Grant in Pharmacology "Dopaminergic Terminal Excitability: Effects of Chronic Autoreceptor Stimulation and Blockade" \$20,000.
- 1977-1979 NIGMS T32 GM07305, Pharmacogenetics Training Grant, Institute for Behavioral Genetics, University of Colorado, Boulder, CO.

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- 2000-2009 British Neuroscience Association  
 1995- present International Basal Ganglia Society  
 1988-2010 New York Academy of Sciences  
 1988-present American Association for the Advancement of Science  
 1988-1991 New Jersey Neuropsychopharmacological Society  
 1981-present Society for Neuroscience

## DEPARTMENTAL COMMITTEES AND ACTIVITIES

- 2018-2019 Faculty Mentor for BNS Graduate Student and Postdoctoral Minisymposium
- 2010-2013 Co-Chair, BNS Admissions Committee
- 2010-2012 Member, BNS Program Qualifying Examination Committee
- 2010 Redesigned Foundations of Neuroscience (BNS) 1st Semester
- 2009 Member, INS Executive Committee
- 2006-2008 Member, INS Program Qualifying Examination Committee
- 2006 Member, PII Promotion Committee for Joan Morrell
- 2003 Reading Committee for Laszlo Zaborszky promotion
- 2002 Reading Committee for Denis Paré tenure
- 2002 Member, CMBN Faculty Search Committee
- 2002-2003 Member, INS Qualifying Examination Committee
- 2001-2002 Member, Executive Committee INS program

2000	Reading Committee for Laszlo Zaborszky promotion
2000	Reading Committee for Teresa Perney promotion and tenure
1999	Reading Committee for Teresa Perney 6th year re-appointment
1999	Reading Committee for Ralph Siegel promotion and tenure
1999	Reading Committee for Linda Brzustowicz promotion and tenure
1997	Reading Committee for Ralph Siegel promotion and tenure
1997	Reading Committee for Laszlo Zaborszky tenure
1996	Reading Committee for Teresa Perney 3 year re-appointment
1995	Reading Committee for Laszlo Zaborszky tenure
1993	Reading Committee for Elizabeth Abercrombie promotion and tenure
1992-1997	Member, CMBN FASIP Review Committee
1992-2001	Chair, BNS Program Qualifying Examination Committee
1992-2005	Member, CMBN Computer Committee
1991- 2005	Director, CMBN Darkroom Facility
1991-2000	Second Year Graduate Student Advisor, BNS program
1987-1996	Member, Search Committee for CMBN Faculty

CMBN - Center for Molecular and Behavioral Neuroscience, BNS - Behavioral and Neural Sciences Graduate Program, CON- College of Nursing, Rutgers, Newark, INS - Integrated Neuroscience Program (Rutgers and UMDNJ)

## UNIVERSITY COMMITTEES AND ACTIVITIES

2019-2020	Vice Chair, Rutgers-Newark IACUC Committee
2019	Chair, IACUC Subcommittee of Research Regulatory Affairs Committee
2019	Member, Research Regulatory Affairs Committee
2019	Member, IACUC Policy Handbook Review Committee
2016-present	Member, Rutgers-Newark IACUC Committee
2014	Member, Shared Instrumentation Grants Selection Committee
2013-2016	AAUP-AFT Executive Council Representative from Rutgers-Newark
2013-2016	Member, Newark Faculty Council
2011	Member, PII Promotion Committee for Lucille Joel (CON)
2011	Member, Professor Promotion Committee for Elise Lev (CON)
2009-2011	Chair, Animal Facility Oversight Committee
2008-2011	Dean's Appointments and Promotions Committee
2008-2011	Newark Faculty Council
2008-2012	Member, Biomedical Research Advisory Committee
2006- 2009	Co-Director, Howard Hughes Medical Institute Program in Quantitative Neurosciences
2001	Member, Provost's Task Force of the Future of Science, Rutgers-Newark
2001-2003	Vice-Chair, Rutgers Animal Care and Facilities Committee and Institutional Review Board
2001	Member, Task Force on the Future of the Sciences at Rutgers-Newark
2001	Member, Computing Support Committee for Rutgers-Newark
1999-2003	Member, Rutgers Animal Care and Facilities Committee
1999-present	Member, MBRS Program Advisory Committee
1998-1999	Interviewer for Biological Sciences Department New Faculty Recruits

1998-1999	Member, Rutgers Institutional Review Board for the Use and Care of Animals
1997- 2003	Member, Review Committee for Johnson and Johnson Discovery Awards
1997-1999	Member, Graduate School, Newark, Rules of Procedure Committee
1997	Member, Middle States Evaluation Committee - Curriculum Subcommittee
1997	Member, Rutgers President's Neuroscience and Cognitive Science Implementation Committee
1997	Member, M. Adler Grievance Committee
1996-1999	Member, Faculty Advisory Committee for Post-Awards Administration
1996	Co-Chair, Faculty Committee of the 1998 Middle States Evaluation Steering Committee
1996	Member, Rutgers President's Neuroscience and Cognitive Science Strategic Planning Committee
1996-1999	Director, Summer Undergraduate Research Internship Program, Program in Cellular and Molecular Biodynamics
1995 -2000	Co-Director and Member of Executive Committee, Program in Cellular and Molecular Biodynamics
1993	Member, Review Committee for Dean's Faculty Research Grants
1993- 2004	Member, Biomedical Research Advisory Committee (Charles and Joanna Busch Biomedical Grants Review)
1991-1995	Member, Rutgers Animal Care and Facilities Committee
1988-1994	Member, Rutgers Institutional Review Board for the Use and Care of Animals

CMBN - Center for Molecular and Behavioral Neuroscience, BNS - Behavioral and Neural Sciences Graduate Program, CON- College of Nursing, Rutgers, Newark, INS - Integrated Neuroscience Program (Rutgers and UMDNJ)

## TEACHING

### Courses:

*Neurophysiology* (graduate program in Neuroscience, Princeton University)

*Cellular Neurophysiology* (graduate; Rutgers - BNS/INS 532)

*Critical Thinking* (graduate; Rutgers-BNS 651)

*Cellular Biophysics* (undergraduate/ graduate; Rutgers - Bio 461 /561)

*Foundations of Neuroscience and Behavior* (graduate, Rutgers - BNS/INS 565)

*Introduction to Neuroanatomy and Neurophysiology* (3- day undergraduate minicourse for Bridges to Higher Education grant program)

*Proseminar in Quantitative Neuroscience* (*Quantitative Neuroscience Program, first given in Fall, 2007; Course designer and coordinator*)

### Lectures:

*Basal Ganglia* (graduate; Rutgers BNS/INS 565, 566)

*Basal Ganglia* (undergraduate Neuroscience Honors course)

*Basal Ganglia* (undergrad Rutgers-NJIT Biology 447 /641)

*Cell Biology* (graduate; Rutgers)

*Cell Biology* (undergraduate; Rutgers)

*Foundations of Neuroscience and Behavior* (graduate; Rutgers BNS 565 8 lectures 2016)

*History of Neuroscience* (graduate; Rutgers BNS 565)  
*History of Neuroscience* (undergraduate Neuroscience Honors course)  
*Human Health and Disease* (undergraduate; Rutgers)  
*Neurobiology* (undergraduate; Rutgers BIO 346)  
*Neurochemistry* (graduate, Rutgers)  
*Neurophysiology I, II, III, IV, V* (graduate; Rutgers BNS 565)  
*Neuroscience II* (graduate; UMDNJ - Newark)  
*Neuroscience Methods* (graduate; Rutgers BNS 705)  
*Psychopharmacology* (undergraduate Rutgers Neuroscience 2018)  
*Psychiatry Residence Program* (post-graduate; UMDNJ - Newark)

## HIGH SCHOOL STUDENTS SUPERVISED

- 1) Simone Wilson (1990), Project Seed
- 2) Latisha Anderson (1990), Project Seed
- 3) Netal Petal (1994, 1995), Project Seed
- 4) Marshana Crosby (2001), Project Seed
- 5) Saima Mirza (2002), Project Seed
- 6) Mayra Amaya (2003, 2004), Project Seed
- 7) Danxun Li (2007)
- 8) Lindsey Lee (2009)
- 9) Shah Zeb Ali (2009), Project Seed
- 10) Parini Shah (2009), Project Seed
- 11) Simran Mirchandani (2012), Livingston High School "University in the High School"
- 12) Adam Lerman (2012), Livingston High School "University in the High School"
- 13) Daniel Campbell (2013), West Orange High School
- 14) Stacey Cohen (2013, 2104), Livingston High School "University in the High School"
- 15) Dominick Brown (2013, Montclair High School)
- 16) Daphne Campbell (2014) West Orange High School
- 17) Adam Magistro (2015) Newark Academy, Livingston, NJ
- 18) Karini Mehta (2015) Newark Academy, Livingston, NJ
- 19) Elina Hoffman (2015) Newark Academy, Livingston, NJ
- 20) Zechariah Brown (2015) Montclair High School, Montclair, NJ
- 21) Catherine Benoit (2016) Newark Academy, Livingston, NJ
- 22) Giulia Socolof (2018) Newark Academy, Livingston, NJ

## UNDERGRADUATE STUDENTS SUPERVISED

- 1) Thomas Agesen (1993)
- 2) Tuan Tran (1994, 1995)
- 3) Alvaro Duque (1994)
- 4) Fernando Lobelo (1995)
- 5) Davine Willoughby Armstrong, M.D. (1996-1998 - **Senior Honors Thesis, Spring 1998**)
- 6) Neil Resnick (Dartmouth, 1996)
- 7) Ellen Thomas (Mt. Holyoke, 1997)
- 8) Catherine Hwang (Wellesley, 1998)
- 9) Christian Lee, Ph.D. (Rutgers-New Brunswick, 2000)
- 10) Ranjith Ramsamy, M.D. (Rutgers-Newark, Biology, 2001)



- 11) Lou Alexandre (Rutgers-Newark, Biology, 2002-2003 – **Senior Honors Thesis, Spring 2003**)
- 12) Nancy Uythoven (Rutgers-Newark, Biology, 2003-2004 – **Senior Honors Thesis, Spring 2004** )
- 13) Daniel Solis (University of Pennsylvania, 2006)
- 14) Igor Gerlin (Rutgers-Newark, Biology, 2006 **Senior Honors Project**)
- 15) R. Tyler Weisbarth (Rutgers-Newark, Biology, 2007-2009)
- 16) Monali Shah (Rutgers-Newark, Biology, 2009)
- 17) Ibrahim Tadros (New Jersey City University, 2009-2010)
- 18) Ruthy Scher (Columbia University, 2010)
- 19) Zoë Siegel (Tulane University, 2011)
- 20) Adam Lerman (University of Massachusetts, Amherst, 2013)
- 21) Daphne Campbell (Northeastern University, 2016)
- 22) Rahul Muchintala (NJIT, 2016-2017)

### ROTATION STUDENTS SUPERVISED

- 1) Giorgio Sansone (1988)
- 2) Avijit Mitra (1991)
- 3) Daniel Askin (1991-1992)
- 4) David Miller (1992)
- 5) David R. Anderson (1992)
- 6) Wenge Li (1992)
- 7) Jessica Willert (1994)
- 8) Kevin Moore (1995)
- 9) Meng Dai (1995)
- 10) George Dragoi (1996)
- 11) Alvaro Duque (1997)
- 12) Daphna Shohamy (1997)
- 13) Brandi Mattson (1998)
- 14) Elizabeth Hur (2001)
- 15) Christian Lee (2001)
- 16) Guillame Joe Pelletier (2002)
- 17) Simal Ozen (2003-2004)
- 18) Bengi Altinbilek (2007)
- 19) Temuchin Unal Cagri (2007)
- 20) Bengi Altenbilek
- 21) Daniel English (2008)
- 22) Gunes Unal (2008)
- 23) Harry Xenias (2009)
- 24) Kurt Fakira (2010)
- 25) Janet Barroso (summer 2011, UNAM, Mexico City)
- 26) Thomas Faust (2011) with T. Koós
- 27) John J. McClure Jr. (2012) with T. Koós
- 28) Aaron Schiffman (2013)
- 29) Sally Wang (2014)
- 30) Jiakuan Wang (2015-2016)
- 31) Miguel Diaz-Acevedo (2016)

- 32) Samet Kocaturek (2107-2018)

### MASTER'S STUDENTS SUPERVISED

- 1) David R. Anderson (1992-1994, M.S., Behavioral and Neural Sciences, Rutgers, 1/94)
- 2) Meng Dai (1994-1997, M.S., Behavioral and Neural Sciences, Rutgers, 5/97)
- 3) Alvaro Duque (1994-1997, M.S., Behavioral and Neural Sciences, Rutgers, 5/97)
- 4) Kevin Moore (1995-1996, M.S., Behavioral and Neural Sciences, Rutgers, 5/97)

### DOCTORAL STUDENTS SUPERVISED

- 1) Sarah E. Durand, Ph.D. (1988 - 1992, with M.-F. Cheng; Ph.D., Behavioral and Neural Sciences, Rutgers, 12/92; **Dean's Dissertation Award, 1993**); currently *Associate Professor, Department of Natural and Applied Science, LaGuardia Community College, City University of New York, New York, New York*
- 2) Francine Trent (1988 -1993; Ph.D., Behavioral and Neural Sciences, Rutgers, 7/93); postdoctoral associate with David McCormick, Ph.D. Yale University.
- 3) Meri Damlama (1990-1994; Ph.D., Behavioral and Neural Sciences, Rutgers 4/94); **Dean's Dissertation Award, 1994**, currently *President, Global Education Exchange, Inc. ([www.globaleducationexchange.net](http://www.globaleducationexchange.net))*.
- 4) Carlos A. Paladini (1994-1998, Ph.D., Behavioral and Neural Sciences, Rutgers, 12/98); **NRSA Predoctoral Award, MH 11947, 1998**; currently *Professor, University of Texas, San Antonio, San Antonio, TX*.
- 5) Tibor Koós (1993-2000, Ph.D., Behavioral and Neural Sciences, Rutgers, 5/00); currently *Assistant Professor, CMBN, Rutgers University, Newark, NJ*.
- 6) Neal A. Sharpe (1991-2000, Ph.D., Behavioral and Neural Sciences, Rutgers 11/00); currently *Research Supervisor, Schering-Plough, Lafayette, NJ*.
- 7) Christian R. Lee (2001–2007, Ph.D., Integrated Neuroscience Program, Rutgers/UMDNJ); currently *post-doc with David Margolis, Center for Cell Biology and Neuroscience at Rutgers-New Brunswick*
- 8) Daniel English (2008–2012, Ph.D., [with T. Koós] Integrated Neuroscience Program, Rutgers/UMDNJ); currently *post-doc with Gyorgy Buzsaki, NYU*.
- 9) Bengi Altinbilek Unal (2007–2012), Ph.D., Integrated Neuroscience Program, Rutgers/UMDNJ). Currently *Assistant Professor, Istanbul Medipol University*.
- 10) Harry Xenias (2009-2014, Ph.D., Integrated Neuroscience Program, Rutgers/UMDNJ). Currently *post-doc with Savio Chan at Northwestern University, Chicago, IL*.
- 11) Miguel Diaz-Acevedo (2016-2019) with Professor Tibor Koós, Behavioral and Neural Sciences, Rutgers-Newark.
- 12) Samet Kocaturek (2018-present), Behavioral and Neural Sciences, Rutgers-Newark.

### POST-DOCTORAL ASSOCIATES SUPERVISED

- 1) David S. Schwartz, Ph.D. (1989 – 1990; *last known position with McCarter and English, Newark, NJ*)
- 2) Lynn P. Martin, Ph.D. (1993 - 1995); *last known position Post-Doc with Barbara Waszczak at Department of Pharmaceutical Sciences, Northeastern University, Boston, MA*

- 3) Bao C. Sun, Ph.D. (1993-1995)
- 4) Kevin Pang, Ph.D. (1994 – 1995, *currently Professor, UMDNJ-NJMS and VA Medical Center, East Orange, N*)
- 5) Pau Celada, Ph.D. (1994 – 1996; *currently Professor, Instituto de Investigaciones Biomedicas de Barcelona, Barcelona, Spain*)
- 6) Yuji Iribe, M.D., Ph.D. (1996 - 2000; *last known position Nihon University, School of Medicine*)
- 7) Tibor Koós, Ph.D. (2000- 2001; *currently Assistant Professor, CMBN Rutgers*)
- 8) Constantinos Paspalas, Ph.D. (2000 – 2001; *currently Post-Doc, Section of Neurobiology, Yale University, New Haven CT*)
- 9) James A. Zackheim, Ph.D. (2003 - 2004; *last known position: Medical Science Liason, Medical Affairs, UCB Pharma, Inc., Smyrna, GA*).
- 10) Yoshiyuki Ishida, Ph.D. (2003-2004);
- 11) M. Cristina Puddu, Ph.D. (2003-2006):
- 12) Elena Brazhnik. Ph.D. (2005-2007); *currently Research Associate with Judith Walters, NIMH*
- 13) Osvaldo Ibanez-Sandoval, Ph.D. (2007 - 2013); *currently Assistant Professor, Universidad Autónoma de San Luis Potosí, México*
- 14) Fatuel Tecuapetla,, Ph.D. (with Professor T. Koós) (2007 - 2009); *currently Assistant Professor, Instituto de Fisiología Celular, Universidad Autónoma de Coyocán, México*
- 15) Jonathan Moss, Ph.D. (2010-2011), *currently Premier assistant, [Universite de Lausanne](http://www.unil.ch) Faculté de biologie et de médecine Section des sciences fondamentales.*
- 16) Maxime Assous, Ph.D. (2013-2018)
- 17) Jaime Kaminer, Ph.D. (with Professor T. Koós) (2014-2018)
- 18) Krishnakanth Kondabolu, Ph.D. (with Professor T. Koós) (2016-2018)

## RESEARCH FACULTY SUPERVISED IN LABORATORY

- 1) Tibor Koós, Ph.D. (2004-2015) Research Assistant/ Associate Professor
- 2) Maxime Assous (2018-present) Research Associate

## DOCTORAL DISSERTATION COMMITTEE MEMBERSHIPS

- 1) #Safwan Sweidan (Ph.D., 1988, Neuroscience, UMDNJ, Newark)
- 2) Margaret McCarthy (Ph.D., 1989, Psychobiology, Rutgers)
- 3) \*Ziying Zang (Ph.D., 1993, Behavioral and Neural Sciences, Rutgers)
- 4) \*Stewart Hoffman (Ph.D., 1995, Behavioral and Neural Sciences, Rutgers)
- 5) Ming Zhang (Ph.D., 1996, Behavioral and Neural Sciences, Rutgers)
- 6) Adam Kandel (Ph.D., 1997, Behavioral and Neural Sciences, Rutgers)
- 7) \*Lilliam Rosario (Ph.D., 1997, Behavioral and Neural Sciences, Rutgers)
- 8) Kathleen Anderson (Ph.D., 1998, Behavioral and Neural Sciences, Rutgers)
- 9) Tracy Matthews (Ph.D., 1998, Behavioral and Neural Sciences, Rutgers)
- 10) \*David Miller (Ph.D., 1998, Behavioral and Neural Sciences, Rutgers)
- 11) James D. Luterma (Ph.D., 1998, Behavioral and Neural Sciences, Rutgers)
- 12) \*Jozef Csicsvari (Ph.D., 1999, Behavioral and Neural Sciences, Rutgers)
- 13) Wenge Li (Ph.D., 1999, Behavioral and Neural Sciences, Rutgers)
- 14) \*Yvonne Clarke-Hall (Ph.D., 1999, Behavioral and Neural Sciences, Rutgers)

- 15) #Peter J. Magill (D. Phil., 2001, Department of Pharmacology, University of Oxford, Oxford, UK)
- 16) \*Salma Quraishi (Ph.D., 2001, Behavioral and Neural Sciences, Rutgers)
- 17) \*Alvaro Duque (Ph.D. 2001, Behavioral and Neural Sciences, Rutgers)
- 18) \*George Dragoi (Ph.D. 2002, Behavioral and Neural Sciences, Rutgers)
- 19) #Dimitris Placantonakis (Ph.D., 2002, Physiology and Neuroscience, New York University School of Medicine)
- 20) \*William S. Cobb (Ph.D., 2002, Behavioral and Neural Sciences, Rutgers)
- 21) Alexis Rodriguez (Ph.D., 2002, Biological Sciences, Rutgers)
- 22) \*Daphna Shohamy(Ph.D., 2002, Behavioral and Neural Sciences, Rutgers)
- 23) \*James Zackheim (Ph.D., 2003, Behavioral and Neural Sciences, Rutgers)
- 24) \*Akira Mamiya (Ph.D, 2003, Behavioral and Neural Sciences, Rutgers)
- 25) \*Derek Buhl (Ph.D, 2004, Behavioral and Neural Sciences, Rutgers)
- 26) #Justin Boyes (D. Phil, 2004, Department of Pharmacology, University of Oxford, Oxford, UK)
- 27) \*Joe Guillame Pelletier (Ph.D.,2005, Integrative Neuroscience, Rutgers-UMDNJ)
- 28) \*Anton Sirota (Ph.D., 2006, Integrative Neuroscience, Rutgers-UMDNJ)
- 29) \*Rachel Sampson (Ph.D.2007, Integrative Neuroscience, Rutgers-UMDNJ)
- 30) \*John Apergis-Schoute (Ph.D. 2007, Integrative Neuroscience, Rutgers-UMDNJ)
- 31) \*Sean Montgomery (Ph.D. 2008, Integrative Neuroscience, Rutgers-UMDNJ)
- 32) \*Katya Likhtik (Ph.D., 2008, Integrative Neuroscience, Rutgers-UMDNJ)
- 33) #Sarah Blythe (Ph.D, 2009, Department of Physiology, Feinberg School of Medicine, Northwestern University, Chicago, IL)
- 34) \*André Popescu (Ph.D., 2009, Integrative Neuroscience, Rutgers-UMDNJ)
- 35) Stephan Marguet (Ph.D. 2010, Integrative Neuroscience, Rutgers-UMDNJ)
- 36) #Collin Lobb (Ph.D. 2010, Department of Biology, University of Texas at San Antonio, San Antonio, TX)
- 37) #Nathalie DeHorter (Ph.D., 2010, Mediterranean Institute of Neurobiology, Unit Inserm 901, Marseille, France)
- 38) \*Sevil Duvarci (Ph.D. 2011, Integrative Neuroscience, Rutgers-UMDNJ)
- 39) \*Till Hartmann (Ph.D. 2011, Integrative Neuroscience, Rutgers-UMDNJ)
- 40) \*David Sullivan (Ph.D., 2013, , Behavioral and Neural Sciences, Rutgers)
- 41) Temucin Cagri Unal (Ph.D., 2013, Behavioral and Neural Sciences, Rutgers)
- 42) Sonal Goswami (Ph.D.,2013, Behavioral and Neural Sciences, Rutgers)
- 43) \*Joshua Callahan (2013, Behavioral and Neural Sciences, Rutgers)
- 44) Kohitij Kar (Ph.D., 2014, Behavioral and Neural Sciences, Rutgers)
- 45) \*Alon Amir (Ph.D., 2015, Behavioral and Neural Sciences, Rutgers)
- 46) Soomin Song (Ph.D., 2016, Department of Biology, U University of Texas at San Antonio, San Antonio, TX)
- 47) \*Samar Alselehdar (Ph.D., 2017, Behavioral and Neural Sciences, Rutgers)
- 48) Thomas J. Faust (Ph.D., 2018, Behavioral and Neural Sciences, Rutgers)
- 49) Robert Assini (Ph.D., 2019, Behavioral and Neural Sciences, Rutgers)

(\* indicates service as chair of the examination committee)

(# indicates service as the outside member of the examination committee)

**EXTRACURRICULAR ACTIVITIES**

2016-2017	Program Committee, XIIth International Basal Ganglia Society Meeting, Merida, Mexico
2011-2013	Past-President, International Basal Ganglia Society
2007-2010	President, International Basal Ganglia Society
2004-2007	President-Elect, International Basal Ganglia Society
2004-2007	Councilor, International Basal Ganglia Society
2004-2009	External Consultant to Northwestern University Udall Center Grant, D.J. Surmeier, P.I.
2003-2004	Member, Organizing Committee for VIIIth International Basal Ganglia Society Meeting
2000-2003	Member, Local Organizing Committee for Greater Metropolitan Area Catecholamine Club
1999-2002	External Consultant to Program Project Grant 5 P01 NS26473 "Morphology and Function of the Basal Ganglia, S.T. Kitai, P.I.
1999	Consultant, Hereditary Disease Foundation
January 30, 1998	Session Organizer and Chair, Workshop on "Regulation of Dopamine Neuron Firing Pattern", Winter Conference on Brain Research, Snowbird, UT
1997-1998	Member, Program Committee for VIth International Basal Ganglia Society Meeting
1990- 1996	Liberty Science Center "Science-by-Mail" Scientist Pen Pal
1988	Member, Steering Committee for Fifth Annual New Jersey State Psychopharmacology Society Meeting (Rutgers, CMBN, July 18, 1991)

**REVIEWING****JOURNAL REVIEWING****EDITORIAL BOARDS**

2012-2017	Member, Editorial Board of <i>Scientifica</i>
2010-2011	Guest Editor, IBAGS X <i>Special Topics in Frontiers in Systems Neuroscience</i>
2010-present	Review Editor, <i>Frontiers in Neuroanatomy</i>
2009- present	Review Editor, <i>Frontiers in Cellular Neuroscience</i>
2009- present	Review Editor, <i>Frontiers in Systems Neuroscience</i>
2006- present	Member, Editorial Board of <i>Brain Structure and Function</i>
2000- present	Member, Editorial Board of <i>Neuroscience</i>
2003- 2009	Associate Editor, <i>Journal of Neuroscience</i>

**AD HOC REVIEWER FOR:**

*American Journal of Physiology*  
*Behavioral Brain Research*  
*Biological Psychiatry*  
*Brain Research*  
*Brain Research Bulletin*

*Brain Research Reviews*  
*Brain Structure and Function*  
*British Journal of Pharmacology*  
*Cerebral Cortex*  
*eLife*

*European Journal of Neuroscience*  
*European Journal of Pharmacology*  
*Experimental Brain Research*  
*Experimental Neurology*  
*Journal of Anatomy*  
*Journal of Chemical Neuroanatomy*  
*Journal of Computational Neuroscience*  
*Journal of Neural Transmission*  
*Journal of Neurochemistry*  
*Journal of Neurophysiology*  
*Journal of Neuroscience*  
*Journal of Physiology*

*Neuron*  
*Neuroscience*  
*Neuroscience Letters*  
*Pharmacology, Biochemistry and Behavior*  
*Philosophical Transactions of the Royal Society B*  
*PLoS One*  
*Proceedings of the National Academy of Sciences*  
*Physiology and Behavior*  
*Psychopharmacology*  
*Restorative Neurology and Neuroscience*  
*Synapse*  
*Trends in Neurosciences*

### GRANT REVIEWING

Ad Hoc Medical Research Council Peer Reviewer (UK) (2019).

Ad Hoc Reviewer for NIH Udall Centers Special Emphasis Panel ZNS1 SRB-J(12) (2016)

**Co-Chair**, NIH Special Emphasis Panel ZRG1 BDCN-L (02) M (2014)

Ad Hoc Reviewer for NIH Udall Centers Special Emphasis Panel ZNS1 SRB-E-34 (2013)

Ad Hoc Reviewer for Special Emphasis Panel ZRG1 IFCN-T (02) (2012)

Ad Hoc Reviewer for R15 AREA Grants - Special Emphasis Panel NIH ZRG1 MDCN E96 (2012)

Ad Hoc Reviewer for NIH Udall Centers Special Emphasis Panel ZNS1 SRB-E-34 (2010)

Ad Hoc Reviewer for NIH Sensory Motor Integration Study Section (2009)

Ad Hoc Reviewer for ZRG1-IFCN-A-58R, ARRA "Challenge Grants" (2009)

**Chair**, NIH Special Emphasis Panel ZRG1 IFCN-L (03) M (2008)

**Chair**, NIH Special Emphasis Panel ZRG1 IFCN-B (02) M (2008)

**Chair**, NIH Special Emphasis Panel ZRG1 IFCN-B (03) M (2007)

Ad Hoc Reviewer for NIH Special Emphasis Panel ZRG MDCN-E-91 S (2007)

Ad Hoc Reviewer for NIH Special Emphasis Panel ZNS1 SRB-M (17) (2005)

Ad Hoc Reviewer for the Neurological Foundation of New Zealand (2004-present)

Member, NIH Somatosensory and Motor Integration (SMI) Study Section (2003-2004)

Ad Hoc Reviewer for the Health Research Council of New Zealand (2003-present)

Member, NIH Special Emphasis Panel ZRG1 F02B 20L Study Section (2002-2004)

Member, NIH Integrative, Functional and Cognitive Neuroscience 5 (IFCN5) Study Section (1998-2003)

Reviewer for the United States-Israel  
Binational Science Foundation (1998-  
present)

Member, NIH/NINDS Neurological  
Sciences Subcommittee 2 (NLS-2)  
Study Section (1997-1998)

Ad Hoc Reviewer for New Zealand  
Neurological Foundation (New  
Zealand) (1997-present)

Ad Hoc Reviewer for National Science  
Foundation (Developmental  
Neuroscience) (1997)

Ad Hoc Reviewer for NINDS Neurological  
Sciences Subcommittee 2 (NLS-2)  
Study Section (1995-1997)

Ad Hoc Reviewer for Wellcome Trust (UK)  
(1995-present)

Ad Hoc Reviewer for NINDS Program  
Project Site Visit Team and NSP-B  
Committee (1993-1994)

## PUBLICATIONS

### RESEARCH ARTICLES

1. Deckard, B.S., Tepper, J.M., and Schlesinger, K. (1976) Selective breeding for acoustic priming. *Behav. Genet.* 6:375-383.
2. Bondy, S.C., Tepper, J.M., and Bettis, D.B. (1979) Seizure proneness and neurotransmitter uptake. *Neurochem. Res.* 4:755-761.
3. Tepper, J.M., Wilson, J.R., and Schlesinger, K. (1979) Relations between nicotine-induced convulsive behavior and blood and brain levels of nicotine as a function of sex and age in two inbred strains of mice. *Pharmacol. Biochem. Behav.* 10:349-353.
4. Tepper, J.M., and Schlesinger, K. (1980) Acoustic priming and kanamycin-induced cochlear damage. *Brain Res.* 187:81-95.
5. Groves, P.M., Fenster, G.A., Tepper, J.M., Nakamura, S., and Young, S.J. (1981) Changes in dopaminergic terminal excitability induced by amphetamine and haloperidol. *Brain Res.* 221:425-431.
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9. Nakamura, S., Tepper, J.M., Young, S.J., Ling, N., and Groves, P.M. (1982) Noradrenergic terminal excitability: Effects of opioids. *Neurosci. Lett.* 30:57-62.
10. Tepper, J.M., Young, S.J., and Groves, P.M. (1984) Autoreceptor-mediated changes in dopaminergic terminal excitability: Effects of increases in impulse flow. *Brain Res.* 309:309-316.
11. Tepper, J.M., Nakamura, S., Young, S.J., and Groves, P.M. (1984) Autoreceptor-mediated changes in dopaminergic terminal excitability: Effects of striatal drug infusions. *Brain Res.* 309:317-333.
12. Sawyer, S.F., Tepper, J.M., Young, S.J., and Groves, P.M. (1985) Antidromic activation of dorsal raphé neurons from neostriatum: Physiological characterization and effects of autoreceptor activation. *Brain Res.* 332:15-28.



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14. Tepper, J.M., Groves, P.M., and Young, S.J. (1985) The neuropharmacology of the autoinhibition of monoamine release. *Trends Pharmacol. Sci.* 6:251-256.
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21. Tepper, J.M., Trent, F., and Nakamura, S. (1990) Postnatal development of the electrical activity of rat nigrostriatal dopaminergic neurons. *Dev. Brain Res.* 54:21-33.
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23. Trent, F, and Tepper, J.M. (1991) Dorsal raphé stimulation modifies striatal-evoked antidromic invasion of nigral dopaminergic neurons in vivo. *Exp. Brain Res.* 84:620-630.
24. Tepper, J.M., Creese, I. and Schwartz, D.S., (1991) Stimulus-evoked changes in neostriatal dopamine levels in awake and anesthetized rats as measured by microdialysis. *Brain Res.* 559:283-292.

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28. Li, X.-G., Somogyi, P., Tepper, J.M., and Buzsáki, G. (1992) Axonal and dendritic arborization of an intracellularly labeled chandelier cell in the CA1 region of rat hippocampus. *Exp. Brain Res.* 90:519-525.
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32. Sawyer, S.F., Tepper, J.M., and Groves, P.M. (1994) Cerebellar-responsive neurons in the thalamic ventroanterior-ventrolateral complex of rats: Light and electron microscopy. *Neuroscience* 63:725-745.
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37. Pang, K., Tepper, J.M., and Zaborszky, L. (1998) Morphological and electrophysiological characteristics of non-cholinergic basal forebrain neurons. *J. Comp. Neurol.* 394:186-204.
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40. Paladini, C.A., Celada, P., and Tepper, J.M. (1999) Striatal, pallidal, and pars reticulata evoked inhibition of nigrostriatal dopaminergic neurons is mediated by GABA<sub>A</sub> receptors *in vivo*. *Neuroscience* 89:799-812.
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75. Assous, M. and Tepper, J.M (2019) Excitatory extrinsic afferents to striatal interneurons and interactions with striatal microcircuitry. *Eur. J. Neurosci.* 49:593-603. doi: 10.1111/ejn.13881.
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78. Kaminer, J., Espinoza, D., Bhimani, S., Tepper, J.M., Koos, T., and Shiflett, M. W. (2019) Loss of striatal tyrosine-hydroxylase interneurons impairs instrumental goal-directed behavior. *Eur. J. Neurosci.* doi: 10.1111/ejn.14412.
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## BOOKS

1. Tepper, J.M., and Groves, P.M. (1988) Study Guide to accompany *Introduction to Biological Psychology, 3rd Edition, (Groves and Rebec)* Dubuque, W.C. Brown.
2. Tepper, J.M., and Groves, P.M. (1992) Study Guide to accompany *Introduction to Biological Psychology, 4th Edition, (Groves and Rebec)* Dubuque, W.C. Brown.
3. Rebec, G.V., Groves, P.M., and Tepper, J.M. (1992) Instructor's manual to accompany *Introduction to Biological Psychology, 4th Edition, (Groves and Rebec)* Dubuque, W.C. Brown.

4. Tepper, J.M., Abercrombie, E.D. and Bolam, J.P. (2007) *GABA and the Basal Ganglia: From Molecules to Systems, Progress in Brain Research, Vol. 160, Elsevier, Amsterdam ISBN: 978-0-444-52184-2.*
5. Tepper, J.M., Bargas, J., Wilson, C.J. and Abercrombie, E.D. (Editors) *Basal Ganglia X- Proceedings of the 10th Meeting of the International Basal Ganglia Society. Frontiers in Systems Neuroscience, ebook published online 2012.*

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99. Ibanez-Sandoval, O., Tecuapetla, F., Shah, F., Koós, T., and Tepper, J.M. (2010) Mouse Striatal NPY interneurons are electrophysiologically and morphologically diverse. 10th Triennial Meeting of the International Basal Ganglia Society. *Abstr.* P-32.
100. English, D.F., Stark, E., Deisseroth, K., Buzsaki, G., Tepper, J.M. and Koos, T. (2011) Optogenetic investigation of neostriatal tonically active cholinergic interneurons and their control of spiny projection neurons *in vivo*. *Soc. Neurosci. Abstr.* 37:80.11.
101. Ibáñez-Sandoval, O., Koós, T. and Tepper, J.M. (2011) Striatal NPY interneuron subtypes differ in their afferent and efferent synaptic connections. *Soc. Neurosci. Abstr.* 37: 665.12.
102. Unal, B., Shah, F., Kothari, J., and Tepper, J.M. (2012) Anatomical and electrophysiological changes in striatal TH-interneurons after nigrostriatal dopamine loss. *Soc. Neurosci. Abstr.* 38:790.21.
103. Xenias, H., Shah, F., and Tepper, J.M (2012) Voltammetric studies of DA release from optogenetically activated striatal TH+ interneurons. *Soc. Neurosci. Abstr.* 38: 183.12.
104. Shah, F., Faust, T., Unal, B., Koós, T and Tepper, J.M. (2012) Anatomical and Electrophysiological Studies of Striatal Calretinin-Expressing Interneurons in Mice. *Soc. Neurosci. Abstr.* 38: 790.21.
105. Tepper, J.M., Ibáñez-Sandoval, O., Deisseroth, K., and Koós, T. (2012) Comparative properties of GABAergic circuits activated by synchronous cholinergic excitation in the dorsal striatum and the nucleus accumbens. *Soc. Neurosci. Abstr.* 38: 87.17.
106. Ibáñez-Sandoval, O., Xenias, H., Koós, T., and Tepper, J.M (2013) Dopamine-

- dependent plateau potentials and subthreshold oscillations in striatal TH interneurons. *Soc. Neurosci. Abstr.* 39: 648.06.
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  109. Shiflett, M.W., Assous, M., Martinez, E., Choe, E., Tepper, J.M. and Tran, T.S. (2015). Loss of *Neuropilin 2* induces aberrant corticostriatal circuit activity and impairs goal-directed instrumental behavior mice. *Soc. Neurosci. Abstr.*41.
  110. Assous M., Shah F., Garg A., Tepper J.M. (2016) Thalamic input to NPY-expressing interneurons in the mouse striatum. *2016 Gordon Confée on the Basal Ganglia, Ventura, CA, USA.*
  111. Kaminer J., Assous M., Faust T.W., Tepper J.M., Koos T. (2016) Towards understanding the behavioral function of rare striatal interneurons. *2016 Gordon Conference on the Basal Ganglia, Ventura, CA, USA*
  112. Kaminer, J., Diaz-Acevedo, M., Espinoza, D.G., Tepper, J.M., Koós, T., and Shiflett, M.W. (2017) Effects of Striatal TH-Interneuron Lesions on Goal-directed Instrumental Behavior. Pavlovian Society 2017.
  113. Lee, C.R., Wiskerke, J., Yonk, A. J., Paradiso, K. G., Tepper, J. M., Margolis, D. J. (2018) Corticostriatal inputs from somatosensory and motor cortex have distinct effects on behavior through differential actions on striatal neurons. *Soc. Neurosci. Abstr.*43:
  114. Yonk, A.J., Lee, C. R., Wiskerke, J., Paradiso, K. G., Tepper J. M.N and Margolis, D. J. (2018) Opposing influences of distinct cortical inputs on striatal circuitry and behavior. *Soc. Neurosci. Abstr.*43:.
  115. Assous<sup>1</sup>, M.. Tepper, J. M. Cholinergic regulation of striatal GABAergic interneurons. Program No. 146.09. 2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2018. Online.
  116. Stanfield<sup>1</sup>, B., Diaz<sup>1</sup>, M. A., Kaminer, J., Espinoza<sup>2</sup>, D. W., Assous<sup>1</sup>, M. Tepper<sup>1</sup>, J. M. Shiflett<sup>2</sup>, M. W. and Koos<sup>1</sup> T. Z. A role for striatal tyrosine hydroxylase interneurons in behavior. Program No. 147.08. 2018 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2018. Online.

## SELECTED INVITED LECTURES AND SYMPOSIA

- July 23, 1983 Department of Psychology, University of Colorado, Boulder, CO
- June 5, 1984 Department of Anatomy, University of Tennessee, Center for Health Sciences, Memphis, TN
- October 11, 1984 Invited Symposium Speaker: "Autoreceptors and Modulation of Neurotransmitter Release", Society for Neuroscience, Twelfth Annual Meeting, Anaheim, CA
- April 11, 1987 Department of Biological Sciences, Rutgers University, Newark, NJ
- February 8, 1989 Department of Neurosciences, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, NJ
- November 27, 1989 Department of Biology, Rutgers University, New Brunswick, NJ
- December 6, 1989 Invited Symposium Speaker: New York Academy of Sciences Symposium, *Presynaptic Receptors and the Question of Autoregulation of Neurotransmitter Release*, Philadelphia, PA
- March 9, 1990 Department of Psychiatry, University of California San Diego School of Medicine, La Jolla, CA
- June 29, 1990 **Invited Symposium Speaker:** XIth IUPHAR Meeting Satellite Symposium, *Presynaptic Receptors and Neuronal Transporters*, Rouen, France
- October 2, 1990 Department of Psychology, Princeton University, Princeton, NJ
- January 25, 1991 Department of Pharmacology, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, NJ
- February 5, 1992 Department of Psychiatry, University of California, San Diego School of Medicine, La Jolla, CA
- March 25, 1993 Department of Physiology and Pharmacology, Wake Forest University, The Bowman Gray School of Medicine, Winston-Salem, NC

April 13, 1994 Department of Psychiatry, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, NJ

April 28, 1994 Hoechst-Roussel Pharmaceuticals Inc., Somerville, NJ

November 3, 1994 Essex County Community College, Newark, NJ

January 24, 1995 Howard Hughes Special Seminar Series - Department of Biological Sciences, Rutgers University, Newark, NJ

May 16, 1995 Second Department of Physiology, Yamaguchi University School of Medicine, Ube, Japan

May 18, 1995 Department of Medicine, Yamaguchi University School of Medicine, Ube, Japan

May 22, 1995 Shionogi and Co., Toyonaka, Osaka, Japan

May 29, 1995 Department of Pharmacology, Nihon University, Tokyo, Japan

October 2, 1995 Department of Physiology and Biophysics, New York University, New York, NY

October 6, 1995 Department of Animal Science, Rutgers University, New Brunswick, NJ

November 10, 1995 Department of Psychiatry, University of California San Diego School of Medicine, La Jolla, CA

December 1, 1995 Department of Psychology, Rutgers University, New Brunswick, NJ

January 15, 1996 Schering-Plough Pharmaceutical Company, Lafayette, NJ

March 4, 1996 Department of Neuroscience, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Newark, NJ

March 11, 1996 Department of Pharmacology, MRC Anatomical Neuropharmacology Unit, Oxford University, Oxford, UK

March 15, 1996 Department of Neuroscience, University of Edinburgh, Edinburgh, UK

April 22, 1996 Department of Biology, Passaic County Community College, Patterson, NJ

July 18, 1996 Department of Pharmacology, University of Colorado School of Medicine Health Science Center, Denver CO

October 14, 1996 Invited Symposium Speaker, *Afferent Regulation of Catecholamine Neurons*, The Eighth International Catecholamine Symposium, Asilomar, Pacific Grove, CA

March 28, 1997 Department of Psychology, University of Connecticut, Storrs, CT

July 23, 1997 Invited Discussant, *Transgenics, Knockouts and Behavior*, Gordon Conference on Catecholamines, Andover, NH

September 16, 1997 Department of Neuroscience, Chicago Medical School, North Chicago, IL

January 30, 1998 Symposium Organizer and Speaker, *Afferent Control of Dopaminergic Neurons*, Winter Conference on Brain Research, Snowbird, UT

February 16, 1998 Department of Biology, Emory University, Atlanta, GA

July 23, 1998 Department of Neuroscience and Anatomy, Pennsylvania State University College of Medicine, Hershey, PA

September 15, 1998 The Nathan Kline Institute for Psychiatric Research, Orangeburg, NY

September 17, 1998 Center for Molecular and Behavioral Neuroscience, Rutgers University, Newark, NJ

October 18, 1998 Invited Symposium Speaker, VIth International Basal Ganglia Society Meeting, Brewster, MA

November 18, 1998 Pharmacia-Upjohn, Kalamazoo, MI

March 13, 1999 Invited Plenary Speaker, *Inhibition of Spiny Projection Neurons by GABAergic Interneurons in Rat Striatum*, *Spring Brain Conference*, Sedona, AZ

April 20, 1999 Department of Anatomy and Neurobiology University of Tennessee Center for Health Sciences, Memphis, TN

September 15, 1999 Department of Biology and Biochemistry, University of Houston, Houston, TX

September 26-27, 1999 Invited Participant, *Hereditary Disease Foundation Workshop: Phenotype Assessment in Mouse Models of Huntington's Disease*, Playa Del Rey, CA

- October 14, 1999 Institute for Neuroscience, Department of Physiology, Northwestern University, Chicago, IL
- November 16, 1999 American Association of Laboratory Animal Sciences, New Brunswick, NJ
- June 27, 2000 Invited Symposium Speaker, "Electrophysiology of Dopamine Neurons", *Federation of European Neuroscience Societies Annual Meeting*, Brighton, UK.
- December 2, 2000 Invited Symposium Speaker "Physiological Studies of Dopamine Neurons *in Vivo*", in *The Basal Ganglia in Health and Disease -The Lund-Oxford Biomedical Exchange Programme*, Oxford, UK
- December 7, 2000 Invited Symposium Speaker/Participant, "Inhibitory Control of Spiny Projection Neurons by GABAergic Interneurons", *The Mexico City Symposium on The Neostriatum*, Mexico City, Mexico
- April 8, 2001 **Invited Keynote Symposium Speaker**, "Functional Aspects of GABAergic Inhibition in the Striatum", *British Neuroscience Association Annual Meeting 2001*, Harrowgate, UK
- May 17, 2001 Vollum Institute, Portland, Oregon.
- January 27, 2002 Workshop Participant, "Ventral Tegmental Area Dopamine Neurons – Similar or Different? - Introduction: Lumpers vs. Splitters", Winter Conference on Brain Research, Snowmass, CO
- January 31, 2002 Symposium Speaker, "Synaptic and Non-synaptic Regulation of Dopamine Neurons - GABAergic Regulation of Substantia Nigra Dopaminergic Neurons", Winter Conference on Brain Research, Snowmass, CO
- May 1, 2002 Cajal Neuroscience Research Center, University of Texas at San Antonio, San Antonio, TX.
- December 4, 2002 University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Department of Neurosciences, Newark, NJ
- January 8, 2003 National Institute on Drug Abuse, Baltimore, MD.
- June 11, 2003 Invited Workshop Participant, *Sensory Motor Systems, Afferent Control of Dopaminergic Neurons: GABAergic*

- Mechanisms Mathematical Biosciences Institute, Ohio State University, Columbus, OH.
- January 13, 2004 Massachusetts General Hospital, Departments of Neurology and Neuroscience, Charlestown, MA.
- April 25-30, 2004 **Invited Participant**, *93rd Dahlem Workshop on Microcircuits: The Interface between Neurons and Global Brain Function*, Freie Universität Berlin, Berlin, Germany.
- March 4, 2005 Department of Psychology and Program in Neural Science, Indiana University, Bloomington, IN.
- April 12, 2005 Department of Anatomy and Neurobiology, University of Tennessee Center for Health Science, Memphis TN.
- May 10, 2005 Department of Life Sciences, University of Texas at San Antonio, San Antonio, TX
- August 17, 2005 **Division of Neurophysiology**, Graduate School, Kyoto Prefectural University of Medicine, Kawaramachi-Hirokoji, Kamigyo-ku, Kyoto, Japan.
- August 21, 2005 **Invited Workshop Participant**, *Summer Workshop on Higher Brain Functions*, Nagano, Japan.
- October 30, 2005 **Invited Workshop Participant**, *GABAergic Systems*, Banbury Center, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.
- May 10, 2006 Department of Anatomy and Neurobiology, Drexel University College of Medicine, Philadelphia, PA.
- March 17, 2007 **Invited Participant**, *“Conference on Synaptic Inhibition”*, DFG Forschergruppe 577, University of Heidelberg, Heidelberg, Germany.
- June 22, 2007 **Invited Symposium Participant**, **Marcus Wallenberg Foundation Symposium for Scientific International Collaboration** *“Communication and Integration in the Basal Ganglia. From Molecules to the Clinic”*, Saltsjöbaden, Sweden.
- October 11, 2007 Department of Biology, University of Texas at San Antonio, San Antonio, TX.
- April 1, 2008 Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD

February 10, 2009 Joint Seminars in Neuroscience, Brain Research Institute, University of California at Los Angeles, Los Angeles, CA.

March 18, 2009 Brain Research Center, Bar-Ilan University, Ramat-Gan, Israel.

June 20-24 2010 **President and Organizer, 10th Triennial Meeting of the International Basal Ganglia Society**, Long Branch, NJ.

November 5, 2010 Mediterranean Institute of Neurobiology, Unit Inserm 901, Marseille, France.

September 14, 2012 **Invited Keynote Address, Pediatrics 2012**, Williamsburg, VA.

October 22, 2012 **Invited Think Tank Meeting** - Optogenetics Approaches to Understand Dysonia and Parkinson's Disease, The Bachman-Strauss Dystonia and Parkinson's Foundation Inc, New York, New York.

March 5, 2013 **Invited Symposium Participant, XIth Triennial Meeting of the International Basal Ganglia Society**, Eilat, Israel

April 3, 2013 Department of Psychiatry, College of Physicians and Surgeons, Columbia University, New York, NY

May 24, 2013 **Opening Plenary Lecture, Dopamine 2013**, Alghero, Sardinia, Italy

July 19, 2013 **Invited Speaker 30<sup>th</sup> Annual Unit Review Day, Anatomical Neuropharmacology Unit**, Oxford, UK.

September 20, 2013 Department of Physiology and Neuroscience, Northwestern University, Chicago, IL

October 15, 2013 Department of Pharmacology and Neuroscience, Georgetown University, Washington DC

February 3, 2014 First Gordon Research Conference on the Basal Ganglia, Invited Speaker, Ventura, CA

April 23, 2014 Department of Anesthesiology, New Jersey Medical School, Rutgers University, Newark, NJ

November 19, 2015 Parkinson's Disease Foundation Center, Columbia University, New York, NY

June 22, 2016 **Invited Speaker, 20<sup>th</sup> International Congress of Parkinson's Disease and Movement Disorders**, Berlin, Germany



February 23-24, 2017      Invited Consultant, CHDI Meeting, New York, NY

March 29, 2017              Session Organizer and Chair, Striatal Interneuronal Systems,  
XIIth International Basal Ganglia Society Meeting, Merida,  
Mexico.

September 28, 2018        Department of Department of Cell Biology and  
Neuroscience , Rutgers-New Brunswick, New Brunswick, NJ

January 14, 15, 2010        Okinawa Institute of Technology, Okinawa, Japan

Talks in green are outside the United States