

**Curriculum Vitae**  
**Douglas L. Rosene,**  
**Professor of Anatomy and Neurobiology**  
**Co-Director, Laboratory for Cognitive Neurobiology**  
**Professor in Undergraduate Program in Neuroscience**

**Department of Anatomy and Neurobiology**  
**Boston University School of Medicine**  
**700 Albany Street, W-701**  
**Boston, Massachusetts, 02118**  
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**January 29, 2016**

**Academic Training:**

1968-1975 Ph.D. University of Rochester, Rochester, NY; Psychology and Neurobiology  
1964-1968 A.B. Stanford University, Stanford, CA; Psychology

**Additional Training:**

2/1974-5/2005 Postdoc in Neuroanatomy, Drs. DN Pandya and GW VanHoesen, Harvard Medical School, Boston, MA

**Academic Appointments:**

2014-present Professor of Undergraduate Program in Neuroscience, Boston University College of Arts and Science  
2005-present Professor of Anatomy and Neurobiology, Boston University School of Medicine  
1985-2005 Associate Professor of Anatomy and Neurobiology, Boston University School of Medicine  
1983-present Collaborative Scientist, Division of Neurobiology, Yerkes Regional Primate Research Center, Emory University, Atlanta, GA  
1978-1985 Assistant Professor of Anatomy, Boston University School of Medicine  
1974-78 Research Associate in Neurology, Boston University School of Medicine, Boston, Massachusetts.  
1974-1978 Lecturer, Department of Neurology, Harvard Medical School, Boston, MA

**Honors:**

1992-1993 Dr. Stanley L. Robbins Award for Excellence in Teaching, Boston University School of Medicine, Boston, MA  
1987-1988 Thomas Robitscher Faculty Award for Excellence in Preclinical Science Teaching, Boston University School of Medicine, Boston, MA

**Departmental and University Committees:**

2014-present Member, Core Advisory Committee, Boston University Medical Campus  
2012, Mar Ad hoc Committee of Inquiry (Scientific Misconduct)

2010-2014	Co-Chair, Core Advisory Committee, Boston University Medical Campus
2009-present	Chair, Appointment & Promotions Committee, Department of Anatomy & Neurobiology
2009-present	Member, Graduate Education Committee, Department of Anatomy & Neurobiology
2008-2012	Chair, Faculty Senate of the Graduate Division of Medical Sciences, Boston University Medical Campus
2008-2012	Member, Animal Users Advisory Committee, Boston University Medical Campus
2008-2009	Member Search Committee for Director of the Laboratory Animal Sciences Center, Boston University Medical Campus
2008-2010	Co-Chair Research Subcommittee and Member Task Force on Information Technology Resources, Boston University Medical Campus
2008-2009	Graduate Medical Sciences MD-PhD Executive Committee - Chair, Subcommittee on Fully Funding MD-PhD Tuition - Boston University School of Medicine
2005-2010	Core Implementation and Oversight Committee, Boston University Medical Campus,
2005-2006	Member, Ad Hoc Advisory Committee on Expansion of Animal Science Center Space, Boston University Medical Campus
2004-2005	Member, Ad Hoc Advisory Committee on Animal Science Center Space Allocation - Boston University Medical Campus
2004-2008	Member, Preclinical Sciences Curriculum Committee - Boston University School of Medicine
2004-2007	Member, Committee on Appointments & Promotions, Dept of Anatomy & Neurobiology
2003-2007	Member, Committee on Promotions, First Year MD Program, Boston University School of Medicine
2003-present	Advisor-At-Large in the Academy of Advisors, Boston University School of Medicine
2003-2004	Member, Ad hoc Faculty Committee on Pathways for Graduate Studies, Dept of Anatomy & Neurobiology
2002, Dec	Ad hoc Committee of Inquiry (Scientific Misconduct)
2001-2003	Chair, Faculty Development Committee, Dept of Anatomy & Neurobiology
1999-2007	Information Technology Advisory Committee, BUSM
1994-1995	Self-Study Task Force on Basic Science Departments, Boston University School of Medicine
1998	Faculty Search Committee, Department of Anatomy and Neurobiology, Boston University School of Medicine
1996-present	MD-PhD Executive Committee, Boston University School of Medicine
1996-1998	Stanley Robins Teaching Award Selection Committee, Boston University School of Medicine
1996-1999	Medical School Graduation Honors Selection Committee, Boston University School of Medicine
1995-1996	BUSM-2000 Information Technology Task Force, Boston University School of Medicine
1994	Task Force on Academic Computing Support and Resources at Boston University School of Medicine
1993	Committee for the re-evaluation of promotion guidelines for First Year MD Promotions
1992	Committee on Interdisciplinary programs of the Graduate Division of Medical and Dental Sciences
1991-1994	Committee on Computers in Medical Education, Boston University School of Medicine

1989-2007	Institutional Animal Care and Use Committee, Boston University Medical Campus
1989-1994	First Year Medical School Promotions Committee, Boston University School of Medicine
1989-1999	MD-Ph.D. Admissions Committee of the Graduate Division of Medical and Dental Sciences
1984-1988	Admissions Committee of the Graduate Division of Medical and Dental Sciences

### **Teaching Experience and Responsibilities:**

2005 - Present	Course Manager, Systems Neurobiology, Boston University School of Medicine
2003 - 2008	Course Manager, Medical Neurosciences, Boston University School of Medicine
2000 - 2003	Co-Course Manager, Experimental Design & Statistics, Boston University School of Medicine
1992 - 2010	Co- Course Manager, Neurobiology of Aging, Boston University School of Medicine
1991 - Present	Co-Course Manager, Neurobiology of Learning and Memory, Boston University School of Medicine
1989-1994	Course Manager, Medical Neurosciences, Boston University School of Medicine.
1986-1988	Course Manager, Dental Neuroanatomy, Boston University School of Medicine
1985 - Present	Lecturer, Neuroscience Survey, Boston University School of Medicine
1983-1990	Co-Course Manager, Quantitative Methods in Biological Investigations, Boston University School of Medicine
1981-1991	Course Manager, Advanced Neuroanatomy, Boston University School of Medicine
1978-2004	Faculty, Medical Microscopic Anatomy, Boston University School of Medicine
1978 - Present	Faculty, Medical Neurosciences, Boston University School of Medicine
1976-1978	Instructor, Introduction to the Nervous System, Harvard University Medical School
1973	Instructor, Physiological Psychology, University of Rochester, College of Arts and Sciences
1972-1974	Instructor, Neural Sciences, University of Rochester Medical School
1972	Instructor, Statistical Methods, University of Rochester, College of Arts and Sciences

### **Major Graduate Mentoring Activities:**

2014	Larissa I Estrada, PhD, Major Advisor & First Reader
2014	Ana Claudio Amaral, PhD, Major Advisor & First Reader
2013	Amy A. Robinson, PhD, Major Advisor & First Reader
2013	Jon Rueckemann, PhD, Co-Advisor & First Reader
2010	Lela Giannaris, PhD, Major Advisor & First Reader
2009	Michael Bowley, MD, PhD, Major Advisor & First Reader
2009	Debra Roberts, MD, PhD, Major Advisor & First Reader
2008	Laura Ngweny, MD, PhD, Major Advisor & First Reader
2007	James Lister, PhD, Major Advisor & First Reader
2006	Laura Welke, PhD, Co-Advisor & Second Reader

2005	John Pugh, MD, PhD, Major Advisor & First Reader
2003	Jonathan Wisco, PhD, Major Advisor & First Reader
2003	Anthony Schwagerl, PhD, Major Advisor & First Reader
2002	Todd Fiacco, PhD, Co-Advisor & Second Reader
2002	Tara Moore, PhD, Co-Advisor & Second Reader
2000	Chuang-kuo Wu, MD, PhD, Co-Advisor & First Reader
1998	Timothy Nicholson, MD, PhD, Major Advisor & First Reader
1997	Bradford Fenton, MD, PhD, Major Advisor & First Reader
1994	Lori Beason, PhD, Co-Advisor & Second Reader
1992	Kenneth Rhodes, PhD, Major Advisor & First Reader
1991	Kinan Hreib, PhD, Major Advisor & First Reader

### **Current Graduate Mentoring Activities:**

Nadine Heyworth (PhD Candidate) - Major Advisor & First Reader  
Eli Townsend-Shobin (PhD Student) – Major Advisor & First Reader  
Sherri Eldridge (PhD Student - UMass Dartmouth) - Major Advisor

### **Major Undergraduate Research Mentoring Activities**

Madeline Brendle - Boston University  
Alexandra Willcox - University of Cardiff, Cardiff, Wales, United Kingdom  
Simrat Dahliwal - Boston University  
Danny McKenzie - Boston University  
Samantha Calderazzo - Boston University  
Alana Carmichael - Boston University  
Tara Kenworthy - Boston University  
Dalia De Ita - National Autonomous University of Mexico, Querétaro, Mexico  
Kathryn Post - Boston University  
Caitlin Devitt - Boston University  
Macayla Donegan - Boston University

### **Major Administrative Responsibilities:**

2005-present	Course Manager, Systems Neurobiology, Boston University School of Medicine
2003-2008	Course Manager, Medical Neurosciences, Boston University School of Medicine
2000-2003	Co-Course Manager, Experimental Design & Statistics, Boston University School of Medicine
1992-2010	Co-Course Manager, Neurobiology of Aging, Boston University School of Medicine
1991-present	Co-Course Manager, Neurobiology of learning and Memory, Boston University School of Medicine
1989-1994	Course Manager, Medical Neurosciences, Boston University School of Medicine
1986-1988	Course Manager, dental Neuroanatomy, Boston University School of Medicine

### **Other Professional Activities:**

#### **Professional Societies: Memberships, Offices, and Committee Assignments:**

2014-2020	Elected President-Elect of the Histochemical Society (successive 2yr terms as President-Elect, President & Past President)
2013-2019	Elected as a Scientific Member to the Council of American Aging Association
2013-2016	Representative of Histochemical Society on the Science Policy Committee of the Federation of American Societies for Experimental Biology (FASEB)
2010-2014	Elected to a four year term on the Council of the Histochemical Society

#### **Editorial Board Memberships:**

2011-present	Associate Editor, AGE – The Journal of the American Aging Association
1989-present	Associate Editor, Journal of Histochemistry and Cytochemistry

#### **Editorial Service (Invited Reviewer):**

Anatomical Record  
Behavioral Brain Research  
Brain Research  
Cerebral Cortex  
Cognitive Brain Research  
European Journal of Pharmacology  
European Journal of Neuroscience  
Experimental Brain Research  
Experimental Gerontology  
Hippocampus  
Journal of Comparative Neurology  
Journal of Chemical Neuroanatomy  
Journal of Histochemistry and Cytochemistry  
Journal of Neurochemistry  
Journal of Neuroendocrinology  
Journal of Neurophysiology  
Journal of Neuroscience  
Neurobiology of Aging  
Neuroscience Letters  
Neuroscience  
Nutritional Neuroscience

## **Major Committee Assignments:**

### **Government:**

- 2015 National Institutes of Health, Center for Scientific Review, Special Emphasis Panel (SEP) ZRG1 BBBP-T (02) M for the BRLE Study Section, December 14, 2015.
- 2015 National Institutes of Health, Center for Scientific Review, Special Emphasis Panel (SEP) ZRG1 BBBP-J 48 P, Site Visit and Review of Southwest National Primate Research Center, San Antonio Texas, Sept 16 - 18, 2015.
- 2015 National Institutes of Health, Center for Scientific Review, Special Emphasis Panel (SEP) ZRG1 BBBP-T (02) M for the BRLE Study Section, July 27, 2015.
- 2015 National Science Foundation, Physics of Living Systems, Major Research Instrumentation Review Panel (mail reviewer), May 15, 2015.
- 2013 Canada Foundation for Innovation, Expert Committee Review: “The Translation Stroke Research Program at Queens University”, August 8, 2013.
- 2013 The National Science Foundation & The Kavli Foundation Workshop: “Physical and Mathematical Principles of Brain Structure and Function” An advisory meeting for the White Brain Initiative, Arlington Virginia, May 5 – 7, 2013.
- 2013 National Institute on Aging, Special Emphasis Contract Review Committee, Review: “Development and Maintenance of an Aged Non-Human Primate Tissue Bank”, April 8, 2013.
- 2012 National Institutes of Health, Office of the Director, Special Emphasis Panel Review: “Wisconsin National Primate Research Center, Base Grant Renewal”, Bethesda, MD, July 11, 2011
- 2011 Harvard Medical School and MGH “The Human Connectome Project” Scientific Advisory Board Meeting, December 30-31, 2011.
- 2011 National Institute on Aging, Special Emphasis Program Project Review Committee, Re-Review: “Dietary Restriction and Aging in Rhesus Monkeys”, June 2011.
- 2010 National Institute on Aging, Special Emphasis Program Project Review Committee, Review: “Dietary Restriction and Aging in Rhesus Monkeys”, July 2010.
- 2010 National Institute on Aging, Chair, Special Emphasis Review Committee, Program Project Re-review, “Estrogen and the Aging Brain” April 2010.
- 2009 National Institute on Aging, Chair, Special Emphasis Review Committee, Program Project Review, “Estrogen and the Aging Brain” December 2009.
- 2009 National Institute on Aging, Special Emphasis Panel for RC2 Grand Opportunity Applications. August 19, 2009.
- 2009 National Institute of Health, Center for Scientific Review, Brain Disorders and Clinical Neuroscience Review Group (BDCN-L96S) Special Emphasis Panel for Competitive Supplements. June 22, 2009.
- 2009 Alzheimer’s Disease Association – Grant Reviewer, May 2009.
- 2010 National Institute of Health, Center for Scientific Review, Aging Systems and Geriatrics (ASG) Study Section Meeting. Permanent Chartered Member , Bethesda MD, June, 2006 - May 2010.
- 2006 National Institute of Health, Center for Scientific Review, Clinical Neuroscience and Disease (CND) Study Section Meeting. Ad hoc member , Bethesda MD October 05 & 06, 2006.

- 2006 National Institute of Health, Center for Scientific Review, Aging Systems and Geriatrics (ASG) Study Section Meeting. Ad hoc member, Bethesda MD February 23 & 24, 2006.
- 2005 National Institute on Aging, Special Emphasis Program Project Review Committee, Review of: "CNS and Cerebrovascular Aging" December 12, 2005.
- 2005 National Institute on Aging, Special Emphasis Review Committee, Review: "Dietary Restriction and Aging in Rhesus Monkeys" Wisconsin National Primate Research Center, University of Wisconsin, Madison Wisconsin, May 2005.
- 2004 National Institute on Aging, Special Emphasis Review Committee, Review: "Estrogen and the Aging Brain" June, 2004.
- 2004 National Institute on Aging, Special Emphasis Review Committee, Review: "Dietary Restriction and Aging in Rhesus Monkeys" Phone Review: May 2004.
- 2004 National Institute of Mental Health, Special Emphasis Review Committee, Review of "Conte Centers for Anxiety and Mood Disorders" Bethesda, MD, March 2004.
- 2003 Nathan Shock Center for Excellence in the Basic Biology of Aging at the University of Washington. Pilot Grant Reviewer, June 2003.
- 2003 National Institute on Aging, Special Emphasis Review Committee, Program Project Site Visit and Review: "Dietary Restriction and Aging in Rhesus Monkeys" Wisconsin National Primate Research Center, University of Wisconsin, Madison Wisconsin November 2003.
- 2003 National Institute on Aging, Chair, Special Emphasis Review Committee, Program Project Reverse Site Visit, "Estrogen and the Aging Brain" December 2003, Bethesda, MD.
- 2003 National Institute of Aging, Special Emphasis Review Committee, "Review of Proposals for Establishing a Non-human Primate Tissue Bank", May 2003.
- 2000 National Institute of Aging and National Center for Research Resources Workshop: "Aged Non-human Primate Resources: Planning for the Future" January 18-19, 2000, Bethesda, Maryland.
- 1999 Center for Scientific Review, Special Emphasis Panel, "Cingulate Cortex in the Human Brain" (ad hoc reviewer) August, 1999.
- 1998-2005 Alzheimer's Association Research Grants, (ad hoc reviewer,) 1998, 1999, 2001, 2005
- 1998 National Institute on Aging, Special Emphasis Review Committees, (Dec 1998)
- 1998 National Institute on Aging Workshop: "Age-related Neurobehavioral Research: An Integrative Cognitive Neuroscience Agenda for the 21st Century", June 3 - 5, 1998, Bethesda, Maryland.
- 1998 National Institute of Health, Scientific Review Branch, Special Emphasis Review Committee, (ad hoc reviewer) Sept 1998.
- 1998 National Institute for Aging, Special Emphasis Panel for Pilot Studies, (ad hoc reviewer) May 1998.
- 1998 National Institute on Aging, Special Emphasis Review Committee, (July 1998)
- 1998 National Institute on Aging Program Project Site Visit, Mt. Sinai Hospital Medical Center, (Chair) March, 1998.
- 1997 Veteran's Administration Merit Review Grants, ad hoc reviewer, (1997 - present)
- 1996-1998 Program Committee - Spring Brain Conference (1996 - 1998)
- 1994 National Institute for Child Health and Human Development, Special Review Committee for RFA "Developmental Disabilities Prevention Research Center" August, 1994.

- 1994 University of Health Sciences Antigua School of Medicine, Computerized Learning Resource Center Advisory Committee, 1994.
- 1994 Boston University Alzheimer's Disease Center Core – Internal Review Committee (1994 – 1997)
- 1991 National Institute on Aging, Alzheimer's Disease Center Core Grant Pilot Project Reviews (ad hoc reviewer) 1991.
- 1991 National Institute of Mental Health Schizophrenia Site Visit Review Committee, Yale University, New Haven, Connecticut. 1991.
- 1990 National Institute on Aging, Alzheimer's Disease Research Center Review Committee (ad hoc reviewer) February 1990.
- 1989 National Institute on Aging Program Project Site Visit, Burke Rehabilitation Center, White Plains, NY (ad hoc reviewer, 1989)

**NIH Study Sections:**

- 6/2006 - 5/2009 National Institute of Health, Center for Scientific Review, Aging Systems and Geriatrics (ASG) Study Section Meeting. Permanent Chartered Member , Bethesda MD, June, 2006 through May 2010.

**Private Foundations, Civic and Cultural Organizations:**

- 2014-present Permanent Funds Committee, Universalist Unitarian Church of Haverhill (2004 - 2012)
- 2013-present Chair, Building and Grounds Committee, Universalist Unitarian Church of Haverhill (2002 -Present)
- 2010 Bylaws Revision Committee, Chair, Universalist Unitarian Church of Haverhill (2010)
- 2008-2012 Personnel Committee, Universalist Unitarian Church of Haverhill (2008 - 2012)
- 2004-2012 Permanent Funds Committee, Universalist Unitarian Church of Haverhill (2004 - 2012)
- 2002-2013 Member, Building and Grounds Committee, Universalist Unitarian Church of Haverhill (2002 -Present)
- 2001-2004 Clerk, Universalist Unitarian Church of Haverhill (2001-2004)
- 2001-2002 U16 Boys Group Director, Georgetown Athletic Association (2001-2002)
- 1999-2004 Capital Campaign Committee, Universalist Unitarian Church of Haverhill (1999 - 2004) (Co-chair).
- 1999-2001 Head Soccer Coach, Boys U14, Georgetown Athletic Association (1999 - 2001)
- 1997-1999 Board of Trustees of the Universalist-Unitarian Church of Haverhill (1997 - 1999) (Chairman)
- 1996 Parent Representative, Curriculum Evaluation Committee for 10 Year Reaccreditation, Georgetown Middle-Senior High School, Georgetown, MA (1996)
- 1996-1997 Ministerial Search Committee of the Universalist-Unitarian Church of Haverhill (1996 - 1997)
- 1994-1999 Assistant Soccer Coach, Georgetown Athletic Association (1994 - 1999)
- 1994-2004 Finance Committee of the Universalist-Unitarian Church of Haverhill (1992 - 2004) (Chairman, 1994 - 2004)



1993-1994 Board of Trustees of the Universalist-Unitarian Church of Haverhill (1990 - 1994) (Vice-chairman, 1993 - 1994)

### Other Support:

#### Current:

8/1/15-7/31/20 PHY1505000 National Science Foundation Physics of Living Systems; “Collaborative Research: Unraveling cerebral connectivity with diffusion MRI, microscopy and statistical physics.” MPIs: DL Rosene, HE Stanley, VJ Wedeen; Total Direct Costs (BU, All Years): \$747,890

9/2013-8/2018 R01 AG042512 National Institute of Aging; Neural Substrates of Diffusion Imaging in Cognitively Aging Rhesus Monkeys” MPIs: M. Kubicki, N. Markis, Douglas L. Rosene; Total Direct Costs (All Years) \$300,449.

8/2013-7/2018 R01 AG043478 National Institute of Aging “The effect of curcumin on age-related cognitive decline in the rhesus monkey” PI: Mark B. Moss, Co-I: Douglas L. Rosene, Total Direct Costs (All Years) \$1,757,320

8/2013-4/2018 R01 AG043640 National Institute of Aging; “Histopathology, Neuroimaging, and Mechanism of Myelin Damage in Aging Monkey Brain”; PI: Douglas L. Rosene; Total Direct Costs (All Years): \$1,863,564

9/2014-9/2018 U01 NS076474 National Institute of Neurological Disease & Stroke; Translational Development of Glial Growth Factor-2 (GGF2) for the Treatment of Stroke; MPI: AO Cagianno (Acorda Inc), DL Rosene; Total Direct Costs (All Years) \$1,399,057

#### Past:

9/2013-8/2015 U01 MH093765; National Institute of Mental Health; “The Human Connectome Project”; MPIs: B Rosene & VJ Wedeen; PI BU Subcontract: DL Rosene

9/2012-8/2014 R21 NS081261; National Institute for Neurological Disease and Stroke “Facilitating The Recovery Of Function Following Stroke: The Efficacy Of Inosine”; PI: TL Moore, Co-I: DL Rosene,

6/2010-5/2014 R01 MH064044; National Institute of Mental Health; “MRI of Complex White Matter and Connectivity” MPIs: JD Schmahmann & VJ Wedeen: PI BU Subcontract DL Rosene

5/2008-4/2014 R01 AG021133; National Institute of Aging; “Spatial Analysis of Cerebral Cortex in Aging Monkeys”; MPIs: HE Stanley, LC Cruz, DL Rosene,

12/2010-11/2012 Efficacy of CNTO-0007 in a Non-Human Primate MPIs: Douglas L. Rosene & T. L. Moore, Advanced Therapeutics and Regenerative Medicine Division of Johnson & Johnson

8/2009-9/2013 PHY-0855453; National Science Foundation - Physics of Living Systems; “Unraveling the Structure of Cerebral Cortex Gray Matter with Diffusion MRI”; MPIs: DL Rosene, HE Stanley, VJ Wedeen,

7/2008-6/2010 R21-AG017609; National Institute of Aging; “Primate Model of Stroke and Recovery in Aging”; PI TL Moore, Co-I: DL Rosene,

7/2007-6/2013 R01-MH074811-01-05; National Institute of Mental Health; “Malnutrition and Mental Health: A Rat Model”; PI, JR Galler, Consultant: DL Rosene

4/2007-3/2013 P01-AG000001-30-34 National Institute of Aging; “Neural Substrates of Cognitive Decline in Aging Monkeys”; PI/PD DL Rosene

3/2005-2/2010 R37-AG017609-06-10; National Institute on Aging; “Neurobiological Consequences of Hypertension and Age”; PI: Mark B. Moss, Co-I: DL Rosene

- 9/2002-8/2007 AG017636 National Institute of Aging “Melatonin and Aging in Non-Human Primates”; PI: IH Zhdanova, Co-I: DL Rosene
- 7/2002-4/2004 Non-human Primate Model for Testing Drug Facilitation of Motor Recovery after Stroke PI: Douglas L. Rosene, ViaCell Inc., Worcester, MA
- 8/2000-6/2005 Neural Substrates of Cognitive Decline in Aging Monkeys PD/PI: Douglas L. Rosene, National Institute of Aging
- 4/2000-3/2001 Interaction of Hippocampal Formation and Prefrontal Cortex in Learning and Memory PI: Mark B. Moss, National Science Foundation
- 3/2000-2/2005 R37-AG017609-01-05 National Institute of Aging ; ‘Neurobiological Consequences of Hypertension and Age’ PI: Mark B. Moss,
- 4/1999-3/2004 National Institute of Child Health and Development “Prenatal Malnutrition and Mental Retardation” PD: JR Galler; PL: DL Rosene, “Neuroanatomy Division”
- 2/1997-1/2000 P01 AG000001; National Institute of Aging “Neural Substrates of Cognitive Decline in Aging Monkeys” PD/PI: DL Rosene,
- 12/1993-11/1998 National Institute of Neurological Diseases & Stroke “Cognition and Cerebrovascular Disease” PD: MB Moss; CoPL: DL Rosene and TL Kemner
- 1/1996-1/1997 National Institute of Aging “Neural Substrates of Cognitive Decline in Aging Monkeys” PD: Alan Peters, PI Project 3 DL Rosene “Age-related Changes in Limbic System of Primate Brain
- 9/1991-8/1994 National Institute of Neurological and Communicative Diseases & Stroke “Anatomy of the Hippocampal Commissures” PI: Steven Demeter, BU Subcontract PI: DL Rosene.
- 4/1987-3/1992 National Institute of Heart, Lung and Blood “Role of the Arterial Wall in Atherosclerosis” PI; Cerebrovascular Disease in the Cynomolgus Monkey: A Behavioral and Neuropathological Study” PD W Hollander, PL: Mark B. Moss, Co-I DL Rosene
- 7/1983-6/1991 National Institute of Aging; “Basal Forebrain and Age-related Disease” Co-PIs: MB Moss, DL Rosene,
- 3/1983-2/1989 National Institute of Neurological and Communicative Diseases & Stroke “Anatomy of the Limbic System in Primates” PI: Douglas L. Rosene,
- 7/1981-11/1988 P01-AG000001 “Aging and the Primate Nervous System Project 3: The Basal Forebrain and Limbic System in the Aged Monkey” PD: A Peters; PL: DL Rosene,
- 2/1981-2/1994 National Institute of Neurological Diseases & Stroke; “Organization of the Cerebral Cortex in Primates”; Co-PIs: DN Pandya, DL Rosene,
- 2/1980-1/1983 National Science Foundation: “Anatomy of the Limbic System in Primates” PI: DL Rosene, National Science Foundation
- 11/1979-12/1982 Office of Naval Research; “Physologic and Stereotactic Coordinates for the Forebrain of the Rhesus Monkey”; PI: Douglas L. Rosene,

**Invited Lectures and Conference Presentations (Since 1992 only):**

- October 30, 2015 “Testing the Reality of MR Tractography Using Tract Tracer and Immunohistochemistry to Explore Fiber Connectivity in the Monkey Brain” Connectivity Course: Structural and Functional Connectivity via MRI, Athinoula A. Martinos Center for Biomedical Imaging, Charlestown, MA
- October, 1, 2014 “Light Microscopic Exploration of Fiber Pathways in the Monkey Connectome: Tract Tracer and Immunohistochemistry of Axon Trajectories” Seminar, Center for Systems Neuroscience: Initiative for Physics and Mathematics of Neural Systems, Boston University, Boston, MA

- September 3, 2014 “Testing the Reality of MR Tractography Using Tract Tracers and Immunohistochemistry to Explore Fiber Connectivity in the Monkey Brain” Connectivity Course: Structural and Functional Brain Connectivity via MRI, Athinoula A. Martinos Center for Biomedical Imaging, Charlestown, MA
- June 14, 2014 “Testing the Reality of MR Tractography Using Tract Tracers and Immunohistochemistry to Explore Fiber Connectivity in the Monkey Brain” Connectivity Course: Structural and Functional Brain Connectivity via MRI and fMRI, Athinoula A. Martinos Center for Biomedical Imaging Charlestown, MA
- April 17, 2013 “Neuroanatomical and Cellular Correlates of Diffusion MR Tractography: What are we Really Seeing?” Athinoula A. Martinos Center for Biomedical Imaging Brian Maps Seminar Series, Massachusetts General Hospital, Charlestown, MA
- February 13, 2013 “Tracing Pathways in the Primate Brain” Athinoula A. Martinos Center for Biomedical Imaging Retreat on structural and Functional Connectivity: What should we be doing to weave connectomics across scales and modalities? Massachusetts General Hospital, Charlestown, MA
- December 14, 2012 “Testing the Reality of MR Tractography Using Tract Tracers and Immunohistochemistry to Explore Fiber Connectivity in the Monkey Brain” Connectivity Course: Structural and Functional Brain Connectivity via MRI and fMRI, Athinoula A. Martinos Center for Biomedical Imaging Charlestown, MA
- March 17, 2011 “White Matter Changes as a Common Denominator for Neuronal Dysfunction and Cognitive Aging in Rhesus Monkey” Spring Brain Conference, Tucson, AZ
- January 27, 2011 “Cognitive Aging: Neurobiological Insights from the Normal Aging Rhesus Monkey” Department of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA
- June 3, 2010 “The Rhesus Monkey as a Model for Ischemic Stroke & Cognitive Aging” Acorda Therapeutics, Hawthorne, NY
- April 30, 2010 “Medical Temporal Lobe Limbic System and Dorsolateral Prefrontal Cortex Interactions in Higher Cognitive Functions.” Limbic Symposium, Center for Excellence in the Neurosciences, University of New England, Biddeford, ME
- April 20, 2010 “Cognitive Aging: Neurobiological Insights from the Normal Aging Rhesus Monkey” Oregon National Primate Research Center, Oregon Health Services University, Beaverton, OR
- April 16, 2010 “Cognitive Aging in the Rhesus Monkey: Phenotype in need of its genetic underpinnings” Fourth International Conference on Primate genomics, Washington National Primate Research Center, University of Washington, Seattle, WA
- January 27, 2010 “Cognitive Aging: Neurobiological Insights from the Normal Aging Rhesus Monkey” Reynolds Center for Aging, Department of Geriatrics, University of Oklahoma, Oklahoma City, OK
- October 15, 2009 “Leon Cintra: Studies of Malnutrition and the Brain” Cintra Memorial Symposium, Neurobiology Institute of the National Autonomous University of Mexico (UNAM), Juriquilla, Queretaro, Mexico
- October 14, 2009 “Cognitive Aging and Adult Neurogenesis: Neurobiological Insights from the Normal Aging Rhesus Monkey” Neurobiology Institute of the National Autonomous University of Mexico (UNAM), Juriquilla, Queretaro, Mexico
- September 24, 2009 “The Primate Model of Cognitive Aging: Insights and Unsolved Problems” 14<sup>th</sup> Annual Canine Cognition, Aging and Neuropathology Conference, Niagra-on-the-Lake, Ontario, Canada

- May 5, 2009 “Cognitive Aging: Neurobiological Insights from the Normal Aging Rhesus Monkey” New England National Primate Research Center, Harvard Medical School, Southborough Campus, MA
- May 31, 2008 “Neurogenesis in the Aging Non-Human Primate: What Happens to all these new cells?” Session I: Neurogenesis in Aging”, 37<sup>th</sup> Annual Meeting of the American Aging Association, Boulder, CO
- May 30, 2008 “Neurobiologia Substrates of Age-Related Cognitive Impairment” Pre-conference Workshop:”Aging Non-human Primates: Models, Progress & Future Directions” 37<sup>th</sup> Annual Meeting of the American Aging Association, Boulder, CO
- September 13, 2007 “Cognitive Aging: Neurobiological Insights from the Normal Aging Rhesus Monkey” Center for Brain Aging and Dementia, University of California at Irvine, Irvine, CA
- April 13, 2007 “Career Development Pathways for Post-doctoral Fellows” Boston University Medical Center Post-doctoral Association Presentation, Boston University Medical Center, Boston, MA
- December 9, 2006 “A Non-Human Primate Model of Cortical Stroke (Ischemic Damage) for Assessing Recovery of Motor Function” Wyeth Research, Collegeville, PA
- May 24, 2006 “Cognitive Aging: Neurobiological Insights from the Normal Aging Rhesus” Center for Aging & Developmental Biology, University of Rochester School of Medicine and Dentistry, Rochester, NY
- June 10, 2005 “A New View of the Aging Brain: Rethinking Conventional Wisdom” Department of Pharmacology Scientific Social, Boston University School of Medicine, Boston, MA
- March 8, 2005 “The Human Brain: A Map Through the Maze” Mini-Med School, Boston University School of Medicine, Boston, MA
- March 12, 2004 “Neurophysiological correlates of changes in forebrain white matter in the aged rhesus monkey” Presented in a Plenary Session on” Neuroimaging in Normal Aging, MCI and Alzheimer’s Disease, Spring Brain Conference, Sedona, AZ
- February 4, 2004 “Aging and Cognition in the Rhesus Monkey: Functional Correlates of White Matter Pathology” Translational Neuroscience Seminar Series, Mount Sinai School of Medicine, New York City, NY
- January 19, 2004 “Non-Human Primate Models of Neurological Disease: Ongoing Studies” Presented to the Neurological Disorders Division of Johnson and Johnson Pharmaceutical Research and Development Corporation, Raritan, NJ.
- April, 2003 “A Map of the Brain: Structure and Function” “Mini-Med School” of Boston University School of Medicine, Boston, MA
- September 22, 2002 “The Laboratory for Cognitive Neurobiology: In Search of the Engram” Laboratory Update Series, Department of Anatomy and Neurobiology, Boston University School of Medicine, Boston, MA.
- July 26, 2002 “Age-related Changes in Cognition and the Brain of the Monkey : Role of Inflammatory Processes in White Matter Degeneration” Vitamin Metabolism and Neurocognitive Laboratories of the USDA Numan Nutrition Research Center on Aging, Tufts University, Boston MA
- June 10, 2002 “Age-related Changes in Cognition and the Brain of the Rhesus Monkey: Evidence for Inflammatory Processes in White Matter” in a Symposium on “The Use of Antioxidants to Maximize Brain Function” Annual Meeting of the American Aging Association , Madison, WI
- March 15, 2002 “White Matter Changes in Aging Monkeys: MRI and Evoked Potential Findings“ March 15, 2002, Spring Brain Conference, Sedona, AZ

- January 16, 2002 “The Human Brain: A Map through the Maze” Senior Anatomy and Physiology Course, Georgetown Middle High School, Georgetown, MA
- October 31, 2001 “A Map of the Brain: Structure and Function” “Mini-Med School” of Boston University School of Medicine, Boston MA
- May 31, 2001 “The Aging Rhesus Monkey: Patterns of Neurobiological Change in Successful and Unsuccessful Aging” NIH sponsored workshop “Nonhuman Primate Models of Aging: Evaluating Their Current Status and Future Potential” Annual Meeting of the American Aging Association, Madison, WI
- April 26, 2001 “Aging in Non-human Primates: Neurobiological Correlates of Cognitive Decline” Annual Meeting of the International Behavioral Neuroscience Society, Cancun, Mexico.
- April, 2001 “A Map of the Brain: Structure and Function” “Mini-Med School” of Boston University School of Medicine, Boston, MA
- February 21, 2001 “Stereological Studies of the Age-related Changes in the Rhesus Monkey Brain” Stereology Resource Center Workshop, “Applications of Unbiased Stereology to Neural Systems” Boston, MA.
- February 11, 2001 “New Perspectives on Age-related Cognitive Impairments” Neuroscience Day, College of Arts and Sciences, Boston University, Boston, MA.
- January 29, 2001 “Age-related cognitive Impairments & Changes in the Brain of the Rhesus Monkey” USDA Human Nutrition Research Center on Aging, Tufts University, Boston, MA.
- November 28, 2000 “Non-human Primates as a Model for Assessing Sleep Disruption and Cognitive Functions” Continuous Performance (24/7) Workshop at Systems Planning Corp., Defense Advanced Research Projects Agency, Arlington, VA
- April 5, 2000 “A Map of the Brain: Structure and Function” “Mini-Med School” of Boston University School of Medicine, Boston MA
- March 28, 2000 “The Neurobiological Bases of Age-Related Cognitive Impairments: New Perspective from a Non-human Primate Model of Normal Aging Bio2000 TechTransferForm, Boston, MA
- March, 1999 “Experimental hypertension results in loss of white matter but not gray matter.” An MRI study in the rhesus monkey. Spring Brain Conference, Sedona, AZ
- June 3, 1998 “Age-related Changes in the Brain of the Rhesus Monkey: Preservation of Neurons and Synapses but Changes in Receptors and Myelin” National Institute on Aging sponsored Workshop- “Age-related Neurobehavioral Research: An integrative cognitive neuroscience agenda for the 21st Century” Bethesda, MD
- April 23, 1998 “Neurobiological Bases of Age-related Cognitive Decline in the Normal Aging Rhesus Monkey. Oregon Regional Primate Research Center, Oregon Health Sciences University, Portland, OR
- April 21, 1998 “Age-related Preservation of Hippocampal Neurons and Synapses but not Receptors” in the Symposium entitled “The Normal Aging Primate Brain” Experimental Biology 98, San Francisco, CA
- April 21, 1998 Chairman and Organizer: Symposium “The Normal Aging Primate Brain”, Experimental Biology 98, Annual meeting of the Federated Societies of Experimental Biology, San Francisco, CA
- March 10, 1998 “Hypertension Related Changes in a Non-human Primate Model of Cerebrovascular Disease: Early Stage Attentional Dysfunction” Annual Spring Brain Conference, Sedona, AZ.

- December 4, 1997 “Neurobiological Bases of Age-related Cognitive Decline in the Normal Aging Rhesus Monkey” Zeneca Pharmaceuticals, Neuroscience Division, Wilmington, DE
- November 21, 1997 “Effects of Aging on Behavior & Neuropathology of the Rhesus Monkey” Brain and Cognition Program, Department of Psychology, Boston University College of Arts and Sciences, Boston, MA
- November 20, 1997 Panel Discussant in the Symposium “Are Animals Just Another Supply Item? Issues in the Responsible Use of Animals in Research” Boston University School of Medicine, Boston, MA
- October 20, 1997 “Hippocampal Cytology and Connections in the Primate and Human Brains” Neuroscience Seminar Series, Massachusetts General Hospital, Harvard Medical School, Partners Neurology Program, Boston, MA
- April 22, 1997 “The Neurobiological Bases of Age-related Cognitive Decline in the Normal Aging Rhesus Monkey.” MacLean Hospital Neuroscience Seminar, Harvard University, Boston, MA
- March 9, 1997 “Preservation of Neurons and Synapses but Changes in Receptors in Normal Aging.” Spring Brain Conference, Sedona, AZ
- March 9, 1997 Chairman and Organizer: Plenary Session “Normal Aging and the Brain.” Spring Brain Conference, Sedona, AZ
- February 25, 1997 The Neurobiological Bases of Age-related Cognitive decline in the Normal Aging Rhesus Monkey.” Yerkes Regional primate Research Center, Emory University, Atlanta, GA
- February 22, 1997 “The Use of Stereological Methods in the Analysis of MRI Scans and Corresponding Tissue Sections of the CNS: Point Counting and the Optical Fractionator.” Neuroscience Spring Imaging Symposium, Emory University, Atlanta, GA
- March, 1996 “Age-related changes in neurotransmitter receptor systems in the cerebral cortex of the rhesus monkey.” Department of Neurology, Massachusetts General Hospital, Boston, MA
- June 4 - 6, 1995 Demonstration and presentation of the computer aided instructional program “Brainstorm” as part of a presentation on “Technology and Medical Education” to the Early Medical School Selection Program Conference: Medicine and Medical Education in the 21st Century, Boston University School of Medicine, Boston, MA
- December 2, 1994 “Hippocampal circuitry and neurobiology of memory systems in primates.” Interdepartmental Neuroscience Seminar Series, Department of Pharmacology, Boston University School of Medicine, Boston, MA
- November 16, 1992 “Comparing Age-related Changes in the Basal Forebrain and Hippocampus of the Rhesus Monkey” National Institutes on Aging Workshop on “The Aging Monkey: Behavior and Neurobiology”, Baltimore, MD

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### Chapters

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### **Dissertation**

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