

JUSTIN R. FALLON

Personal Information:

Citizenship: United States

Education:

Colgate University	A.B.	1973	Biology
University of Pennsylvania	Ph.D.	1979	Anatomy and Cell Biology
University College London	Postdoctoral	1980-83	Neurobiology
Stanford University	Postdoctoral	1983-86	Neurobiology

Research Interests:

Therapeutics for Alzheimer's and other neurodegenerative diseases. Novel ALS models. Molecular and cellular basis of synapse formation, regeneration and plasticity. Regulation of stem cell dynamics in muscle and brain.

Positions:

2000-	Professor, Department of Neuroscience, Brown University
2013-	Professor (Secondary Appt.), Department of Psychiatry and Human Behavior, Brown University
2014-17	Founding Director, Brown Center for the Neurobiology of Cells and Circuits
1997-2000	Associate Professor, Department of Neuroscience, Brown University
1991-96	Senior Scientist, Worcester Foundation for Biomedical Research
1992-96	Associate Professor (Affiliated), Department of Cell Biology, University of Massachusetts Medical School
1986-91	Staff Scientist, Worcester Foundation for Experimental Biology
1983-86	Postdoctoral Research Assistant, Department of Neurobiology, Stanford University School of Medicine, Stanford, CA. Sponsor, U.J. McMahan, Ph.D.
1983-84	Visiting Lecturer in Human Anatomy, Department of Surgery, Stanford University School of Medicine
1980-83	NIH Postdoctoral Research Fellow, MRC Neuroimmunology Project, Department of Zoology, University College London, U.K. Sponsor, Martin C. Raff, M.D., FRS
1976-77	Instructor in Medical Histology (Partially Affiliated), Department of Anatomy, University of Pennsylvania School of Medicine, Philadelphia, PA
1975	Teaching Assistant, Dental Gross Anatomy, Department of Anatomy, University of Pennsylvania
1973-79	NIH Predoctoral Trainee, Department of Anatomy, University of Pennsylvania School of Medicine, Advisor, Vivianne. T. Nachmias, M.D.

Professional Activities, Societies and Awards:

1973	Honors in Biology, Colgate University
1980-83	NIH Postdoctoral Fellow, NRSA
1983-84	Dysautonomia Foundation, Postdoctoral Fellow,
1989-91	March of Dimes, Basil O'Connor Starter Research Scholar Award
1995	Co-organizer, Symposium on Neurodegenerative Diseases, Worcester

Foundation for Biomedical Research
1998 Co-organizer, Keystone Symposium on Synapse Formation and Plasticity
Member, Society for Neuroscience; American Society for Cell Biology
2003- Associate Editor, *Journal of Cellular Physiology*
2004- Member, Scientific Advisory Board, Fragile X Research Foundation (FRAXA)
2006- Member, Scientific Advisory Board, Charley's Fund (Muscular Dystrophy)
2009-2012 Executive Committee, NIAMS, NIH, P30 Boston Medical Research Institute
2009 Parent Project Muscular Dystrophy- First Time Awarded "End Duchenne Grant"
2009-11 Co-Chair, Rhode Island Collaborative for Autism Research and Treatment
2013- Editorial Board, *Journal of Neuromuscular Diseases*
2014 Chair, Biomarkers Working Group and Steering Committee Member, PPMD
FDA draft guidance for Duchenne Muscular Dystrophy
2016- Member, Scientific Council, Association Française Contre les Myopathies

Active Grant Support:

R41 AG073144-01A1. "Promoting adult hippocampal neurogenesis in Alzheimer's Disease using antibody-based therapy" 9/2021 – 8/2022. Role: Co-PI with A. Webb \$408,839

R21 NS112743-01A1. "Next generation machine vision for automated behavioral phenotyping of knock-in ALS- FTD mouse models". 4/1/20-3/31/22. J. Fallon, PI. Goal is to use machine learning to develop a novel automated behavioral assay for mouse models of neurodegenerative disease. Role: Co-PI with T. Serre and R. Gutmann. \$223,438

Edward N. & Della L. Thome Memorial Foundation Awards Program in Alzheimer's Disease Drug Discovery Research. "Promoting Adult Hippocampal Neurogenesis as an Alzheimer's Disease Therapy" 2/1/2020-1/31/2022; J. Fallon, PI; Ashely Webb, Co-PI. Goal is to develop an ASO-mediated therapeutic to enhance neurogenesis in mouse AD models. \$250,000

NIH 5P20GM121298-02. "COBRE for Reproductive Health" 4/2019 – 3/2022. Role: Mentor to Beatrice Lechner, M.D. Goal is to mentor Beatrice Lechner, an early career clinician scientist. \$102,839

NIH R21 AG073743; "Promoting adult hippocampal neurogenesis in Alzheimer's Disease Models". Role: Co-PI with A. Webb. 7/1/21 – 6/30/23. \$259,554

Carney Innovation Award, Robert J. & Nancy D. Carney Institute for Brain Science, Brown University. 1-2022 – 1-2023. "Promoting Adult Hippocampal Neurogenesis by the MuSK-BMP pathway: In vivo testing of a novel target". Role PI. (A. Webb co-PI). Goal is to test a new dimension of the MuSK-BMP signaling pathway in a mouse model. \$132,000

Recent Grant Support:

NIH 1U01NS064295-04. "Development of biglycan as a therapeutic for Duchenne Muscular Dystrophy". Justin Fallon, Principal Investigator. 8/1/09 – 6/30/18. Total costs \$1,366,500/year

ALS Finding a Cure. Accelerating identification of cross-species suppressor genes and elucidating early pathophysiology in ALS. Justin Fallon, co-Investigator. 10/1/15 – 7/30/18. \$235,000/yr

OVRP Seed Grant, Brown University, "Regulation of neural stem cells by the BMP co-receptor MuSK" Co-PI with Ashely Webb, MCB. \$80,000/yr

Tivorsan Pharmaceuticals. Biglycan as a therapeutic for Duchenne Muscular Dystrophy and ALS. Justin Fallon, Principal Investigator. 4/1/14 – 5/1/16. Reviewer, granting agencies:

Federal

Dept. of Defense Chair, CDMRP-Muscular Dystrophy Integration and Vision Setting Panels,

2014-2023

NIH/CSR AN 11 Small Business Study Section, Ad Hoc, 11/2022
 NIH/NIA R21/R33 grant application committee, Ad Hoc, 2/2021.
 NIH-CSR ZRG1 MOSS-S (02) Special emphasis panel, 3/2021
 NIH-NINDS Chair, Wellstone Muscular Dystrophy Review, 3/2018
 NIH-NINDS NSD-B, *ad Hoc*, 2017
 NIH-CSR ZRG1 MOSS-R 02, *ad Hoc* 2017
 NIH-NIAMS P50 'RISK' grant review 10/2017
 NIH-CSR NSD-B Review Panel, 2/2016, *ad Hoc*,
 NIH-NIAMS P50 CORT Review Panel, 4/2016, *ad Hoc*
 NIH-CSR SMEP Review Pane. 10/2016, *ad hoc*
 NIH-NSD-B Translational Grant Panel, 6/2015, *ad Hoc*
 NIH-NINDS Wellstone Muscular Dystrophy Center Review 4/2015
 Dept. of Defense Chair, CDMRP-Muscular Dystrophy Integration Panel, 2014-2016
 NIH-NINDS Chair, Wellstone Muscular Dystrophy Center Review. 4/2013, 11/2013
 NIH-CSR Ad hoc member, Skeletal Muscle and Exercise Physiology, 2013
 Dept. of Defense Member, CDMRP-Muscular Dystrophy Integration Panel, 2011-
 NIH-NINDS Member Blueprint Review 12/12
 NIH-NSD-B Member, Review panel 10/11
 NIH-NIAMS P50 CORT, Review Panel, 11/10
 NIH-MDCN IRG Special Emphasis Panel, ad hoc reviewer, 11/10
 NIH/MOSS IRG Special Emphasis Panel, ad hoc reviewer, 3/10
 NIH-NINDS Wellstone Review Panel 3/10
 NIH, NIMH Board of Scientific Counselors, ad hoc reviewer, 10/09
 NIH-SYN 6/09 (reviewer reserve)
 NIH-NINDS Fellowship Review Panel 3/08
 NIH-CSR Special Emphasis Panel Review 3/08
 NIH-CSR Regular member, Synapses, Cytoskeleton and Trafficking, regular member
 5/04 – 5/07
 NHLBI Board of Scientific Counselors, *ad hoc* reviewer, 10/05
 NIH- BCST ad hoc 11-05
 NIH, NIMH NIMH Board of Scientific Counselors, *ad hoc* reviewer, 11/01; 11/04
 NIH-CSR Molecular, Developmental and Cellular Neurobiology- 1 *ad hoc*, 10/98,
 4/99, 6/99, 10/00, 10/01, 6/02, 10/02, 2/03, 6/03, 10/03
 NIH-CSR Molecular, Developmental and Cellular Neurobiology- 2 *ad hoc*, 6/03
 NIH-CSR MDCN-2-2, Chair, Special Emphasis Panel 4/03
 NIH-CSR MDCN-5, Chair, Special Emphasis Panel, 4/03
 NIH-CSR ZRG1, F03A (20) Review Committee, *ad hoc*, 3/02
 NIH-CSR NIMH, BSC Review Committee 12/01
 NIH-CSR Molecular, Developmental and Cellular Neurobiology -7 *ad hoc*, 2/99, 2/03
 NIH-CSR Molecular, Developmental and Cellular Neurobiology-3 *ad hoc*, 11/01
 NIH-CSR NINDS, NST Review Committee, 10/01
 NIH-CSR NIA, ZAG1 Review Committee, *ad hoc*, 2/01
 NIH-CSR NINDS, ZNS1, SRB-K Review Committee, 11/00
 NIH-CSR NINDS, NSD-B Review Committee, *ad hoc*, 2/00
 NIH-CSR Neurological Sciences 1 study section member, *ad hoc*, 1989, 1994-97
 NIH-CSR NSPB Review Committee, *ad hoc*, 1995, 1996
 NIH-CSR Neur B1, *ad hoc*, 1995

Non-Federal

Association Française contre les Myopathies Member, Scientific Council, 2016-
 Keck Foundation, Ad Hoc, 3/2021

ALS Therapy Alliance, Review Committee, 3/2014; 4/2015
AIBS, Scientific Peer Advisory and Review Services, 12/10
Muscular Dystrophy Association, Medical Advisory Committee, 10/10
Muscular Dystrophy Association, Scientific Advisory Committee, ad hoc, 10/07 - 2/10
Boston Biomedical Research Institute/ Wellstone P30 Executive Committee 2008
National Alliance for Autism Research (NAAR) 2006
Marsden Foundation (New Zealand) 6/03
Fragile X Foundation (FRAXA) Reviewer 3/02, 6/03, 1/05
Muscular Dystrophy Association, 3/03, 3/05
Swiss National Science Foundation, *ad hoc*, 1997
Spinal Cord Research Foundation, 1994, 1995, 1999
American Institute for Biological Sciences, 1994, 1995

Reviewer, Journals:

Cell, J. Biol Chem., J. Cell Biol, J. Neurosci. , J. Neurobiol., J. Neurochem. Mol. Cell. Neurosci., Nature, Nature Genetics, Nature Neurosci., Neuron, Proc. Natl. Acad. Sci (USA). Science

Symposia talks by invitation: (1992-)

3/92 Keystone Symposium on Synapse Formation and Function, Big Sky, Montana.
4/94 Keynote Speaker, Symposium on Extraocular Muscles
North American Association of Neuro-ophthalmology, Sarasota, FL
6/94 Gordon Conference on Cell Biology of the Neuron
1/95 AFM Workshop: 'The Dystrophin Connection', Paris, France
5/95 Symposium on Neurodegenerative Diseases, Shrewsbury, MA
7/95 Gordon Conference on Neural Plasticity
11/95 Symposium on Synaptic Plasticity
Society for Neuroscience Annual Meeting, San Diego, CA
1/96 Winter Conference on Brain Research, Snowmass, Colorado
10/96 Banbury Conference on Plasticity of Glutamate Receptors, Cold Spring Harbor, NY
10/97 Formation and Plasticity of Neuronal Circuits, Ascona, Switzerland
3/98 Keystone Symposium on Synapse Formation: Neuromuscular Junction to CNS
10/99 Symposium on Dendritic Protein Synthesis: Implications for Synaptic Development and Plasticity, Society for Neuroscience Annual Meeting. Miami, FL
3/00 Symposium on Building and Rebuilding the Brain, Irvine, CA
4/00 Banbury Conference on Fragile X Mental Retardation, Cold Spring Harbor, NY
6/00 The Dynamic Brain: Molecules, Mathematics and Mind. Providence, RI
6/00 Dendrites in the Central Nervous System, New York, N.Y.
6/00 Gordon Conference on The Cell Biology of the Neuron, Plymouth, NH
7/00 Gordon Conference on Proteoglycans, Newport, RI
9/00 Banbury Conference on Structure, Function, and Mechanism of CaMKII, Cold Spring Harbor, NY
12/00 American College of Neuropsychopharmacology, San Juan, Puerto Rico
03/01 Keystone Symposium on the Synapse/Hippocampus, Taos, NM
08/01 International Congress of Physiological Sciences, Christchurch, New Zealand
04/02 Banbury Center, Fragile X Meeting, Cold Spring Harbor, NY
05/02 Developmental Cognitive Neuroscience Conference, Brown U., Providence, RI
07/02 Satellite Meeting on Muscular Dystrophy, Univ. of Washington, Seattle, WA
04/03 Banbury Center, Fragile X Meeting, Cold Spring Harbor, NY
05/03 Blankenese Conference on Learning at the Synapse, Hamburg, Germany

10/03 Harden Conference on Proteoglycans, Parma, Italy
 06/04 NIH/NICHD Conference "Fragile X: State of the Science", Washington, DC
 09/04 Seattle Muscular Dystrophy Conference, Seattle, WA
 09/04 Matrix Biology Society of Australia and New Zealand, Keynote Speaker, Rottneest Island, Australia
 09/04 ComBio 2004, Perth, Australia
 02/05 Banbury Center, Fragile X Meeting, Cold Spring Harbor, NY
 07/05 Arden Conference of Fragile X Syndrome (Co-organizer), Dover, NH
 11/05 Society for Neuroscience Satellite Symposium on Fragile X (Organizer)
 04/06 Banbury Center, Fragile X Meeting, Cold Spring Harbor, NY
 07/06 International Conference on Neuromuscular Disease, Istanbul, Turkey
 07/06 Parents Project Muscular Dystrophy, Cincinnati, OH
 08/06 International Symposium for Developmental Neurobiology, Banff, Canada
 06/07 NIH Translational Work Shop on Muscular Dystrophy, Bethesda, MD
 06/07 Seattle Muscular Dystrophy Conference, Seattle, WA
 07/07 PPMD Annual Conference, Philadelphia, PA
 10/07 Janelia Farms Conference, "Translation at the Synapse", Ashburn, VA
 11/07 Muscular Dystrophy Assoc. Clinic Directors Meeting, Providence, RI
 01/08 ISF-Legacy Heritage Fund Inaugural Meeting on New Approaches to Neurodegenerative Diseases, Tel Aviv, Israel
 07/08 Muscular Dystrophy Assoc. Clinic Directors Meeting, Providence, RI
 01/09 Parent Project Muscular Dystrophy Connect Conference, Philadelphia, PA
 06/09 Parent Project Muscular Dystrophy Connect Conference, Atlanta, GA
 07/09 Suna Kiraç Conference on Neurodegeneration, ALS-IST 2009, Istanbul, Turkey
 11/09 Janelia Farms Conference, "Translation at the Synapse II", Ashburn, VA
 01/10 ISF-Legacy Heritage Fund Inaugural Meeting on New Approaches to Neurodegenerative Diseases, Ein Bokek, Israel
 5/10 ICOSA Conference on RNA Biology and Neurodegeneration, UMMS, MA
 05/10 FRAXA Investigators Meeting, New England Center, Durham, NH
 06/10 Parents Project Muscular Dystrophy Connect Conference, Denver, CO
 01/11 Suna Kiraç Workshop on Neurodegenerative Disease (Co-organizer), Istanbul, Turkey
 02/11 Duchenne Parent Project Italy Meeting, Rome, Italy
 03/11 National MDA Scientific Conference, Las Vegas, NV
 07/11 Parent Project Muscular Dystrophy, USA. Baltimore, MD
 09/11 FRAXA Investigator's Meeting, Southbridge, MA
 11/11 Action Duchenne Conference, London, UK
 02/12 Parent Project Muscular Dystrophy Italia, Rome Italy
 02/12 Cure Duchenne, Newport Beach, CA
 03/12 MDA Clinical Meeting, Las Vegas, NV
 06/12 Gordon Conference on Fragile X and Autism (Session Chair), Easton, MA
 06/12 New Directions in Skeletal Muscle Biology and Disease, New Orleans, LA
 06/12 Parent Project Muscular Dystrophy DuchenneConnect Meeting, Ft. Lauderdale, FL
 11/12 Action Duchenne Conference, London, UK
 01/13 Suna Kiraç Workshop on Neurodegenerative Disease (Co-organizer), Istanbul, Turkey
 06/13 Gordon Research Conference on Neurotrophic Factors, Newport, RI
 06/13 Suna Kiraç Conference on Neurodegeneration, Istanbul, Turkey
 02/14 Scientific Conference, Parent Project Muscular Dystrophy

- 02/14 General Conference, Parent Project Muscular Dystrophy
- 03/14 Packard ALS Symposium, Baltimore, MD
- 06/14 Suna Kiraç Conference on Neurodegeneration, Istanbul, Turkey
- 01/15 Kiraç Workshop on Neurodegenerative Disease, Istanbul, Turkey
- 09/15 EMBO Conference on Muscle Wasting, Ascona, Switzerland
- 11/15 Action Duchenne Conference, London, UK
- 03/16 Cure Congenital Muscular Dystrophy Conference, Toronto, Canada
- 06/16 Parent Project Muscular Dystrophy Duchenne Connect Meeting, Orlando, FL
- 09/16 MDA meeting on Becker Muscular Dystrophy, Washington, DC
- 10.16 11th International BMP Conference, Boston, MA
- 11/16 Action Duchenne Conference, London, UK
- 11/16 Society for Neuroscience Workshop: Paths to Translation. San Diego, CA
- 6/17 Parent Project Muscular Dystrophy Duchenne Connect Meeting, Chicago, IL
- 6/18 Parent Project Muscular Dystrophy Meeting, Scottsdale, AZ
- 8/21 Platinum Longevity Event, Singularity Foundation, Boston, MA
- 5/22 14th International Conf. on Myasthenia Gravis and Related Disorders, Miami FL.
- 09/22 International Conference on Muscle Wasting, Ascona, Switzerland
- 04/23 Banbury Center, Fragile X Meeting, Cold Spring Harbor, NY

Seminars presented by invitation: (1991-)

- 10/91 Laboratory of Biochemical Genetics, National Institutes of Health
- 11/91 Muscular Dystrophy Association, Clinic Directors Meeting
- 12/91 Regeneron Pharmaceuticals, Tarrytown, New York
- 2/92 Neurosciences Department/HHMI, Johns Hopkins Medical School
- 5/92 Dept. of Cell Biology, U. Mass. Medical School
- 9/92 Dept. of Biology, College of the Holy Cross
- 3/93 E.K. Shriver Center, Waltham, Massachusetts
- 8/93 Neurobiology Course, Marine Biological Laboratory, Woods Hole, MA
- 10/93 Dept. of Anatomy, University of Arizona Sch. Medicine
- 10/94 Vollum Institute, Portland, Oregon
- 10/94 Dept. Physiology and Biophysics, University of Washington.
- 10/94 Dept. of Neurosciences, Case Western Reserve University
- 2/95 Dept. of Neurobiology, University of Pittsburgh
- 4/95 Dept. of Cell Biology, Georgetown University School of Medicine
- 5/95 MDA Clinic Directors Meeting, U. Mass. Medical School
- 8/95 Dept. of Neurobiology and Anatomy, Bowman Gray School of Medicine
- 9/95 Dept. of Neurosciences, University of Pennsylvania
- 10/95 Department of Neurobiology, Harvard Medical School
- 10/95 Neurosciences Institute, Montreal General Hospital
- 11/95 Dept. of Molecular Pharmacology, Brown University
- 3/96 Neurosciences Program, University of Massachusetts, Amherst
- 8/96 Dept. of Cellular Pharmacology, Univ. of Miami
- 9/96 Dept. of Molecular Biology, Cell Biology, and Biochemistry, Brown University
- 2/97 Dept. of Neuroscience, Tufts University School of Medicine
- 5/97 Dept. of Pharmacology, University of Connecticut Health Sciences Center
- 5/97 Dept. of Pharmacology, University of Virginia School of Medicine
- 7/97 Neurobiology Course, Marine Biological Laboratory, Woods Hole, Massachusetts
- 10/97 Biozentrum, Basel, Switzerland

10/97 Institute François Jacob, Paris, France
10/97 Dept of Molecular, Pharmacology & Biotechnology, Brown University
11/97 Dept. of Biology, Assumption College
11/97 Dept. of Pharmacology, University of Chicago
4/98 Section of Neurobiology, Yale University
4/98 Dept. of Anatomy and Cell Biology. SUNY Upstate Medical Center
10/98 Dept. of Neurobiology and Anatomy, Pennsylvania State Univ. Coll. Med.
3/99 Boston Hippocampal Club, Brandeis Univ.
9/99 Dept. of Physiology & Neurobiology, University of Connecticut
9/99 Dept. of Neuroscience, Albert Einstein College of Medicine
1/00 Dept. of Cell Biology, Emory University School of Medicine
3/00 Center for Learning and Memory, MIT
5/00 Craniofacial and Skeletal Disease Branch, NIDR, NIH
5/00 Neurosciences Program, Georgetown University School of Medicine
5/00 Dept. Pharmacology & Physiology, UMDNJ -New Jersey Medical School
10/00 Dept. of Pharmacology, Ohio State University
01/01 LifeCell Corporation, Branchburg, NJ
02/01 Regeneron Pharmaceuticals, Tarrytown, NY
02/01 Genzyme Corporation, Framingham MA
02/01 Program in Neuroscience, Boston University
04/01 Department of Pharmacology, Boston University
04/01 Department of Cell Biology, University of Alabama at Birmingham
05/01 Department of Cell Biology, Case Western University
05/01 Department of Cellular and Molecular Medicine, University of Ottawa
06/01 Department of Biochemistry & Biophysics, University of California, San Francisco
10/01 Review and Update in Neurobiology for Neurosurgeons, Woods Hole, MA
11/01 Department of Neuroscience, U. Mass Medical School, Worcester, MA
01/02 Dept. of Pharmacology & Toxicology, Medical College of Georgia
02/02 Biology Department, University of Texas at San Antonio
02/02 Dept. of Neurobiology and Physiology, Northwestern University, Illinois
04/02 LifeCell Corporation, Branchburg, NJ
04/02 Dept. of Molecular, Cellular & Developmental Biology, Yale University, CT
06/02 Marine Biological Laboratory, Woods Hole, MA
07/02 Dept of Anatomy and Human Genetics, Oxford Univ. UK
07/02 MRC Clinical Sciences Center, Hammersmith Hospital, UK
07/02 International Conference on Neuromuscular Diseases, Vancouver, BC, Canada
08/02 Sention Pharmaceuticals, Providence, RI
09/02 Dept. of Genetics, Children's Hospital Boston, MA
09/02 Weis Center for Research, Danville, PA
10/02 Dept. of Human Genetics, Erasmus Medical College, Rotterdam, The Netherlands
10/02 Fishberg Research Center for Neurobiology, Mt. Sinai School of Medicine, NY, NY
04/03 Dept. of Pharmacology, U. Connecticut Health Sciences Center, Farmington, CT
09/03 Dept. of Neuroscience, Biozentrum, Basel, Switzerland
03/04 Institute for Biomedicine and Technology, Texas A&M University
10/04 Dept of Molecular, Cellular and Developmental Biology, U. Michigan
07/05 LifeCell Corporation, Branchburg, NJ
11/05 Scientific Advisory Board, Health Care Ventures, Boston, MA
01/06 Neuroscience Center, Miami Project, University of Miami

03/06	Neuroscience Program, University of Pennsylvania
04/06	Genzyme Corporation, Waltham, MA
04/06	Oswald Avery Memorial Lecture, Colgate University, Hamilton, NY
09/06	Zilkha Institute for Neurogenetics, U. Southern California, Los Angeles, CA
10/06	Department of Neurobiology, Biozentrum, Basel, Switzerland
02/07	Dept. of Biochemistry, University of Minnesota
01/08	Gladstone Institute, UCSF, San Francisco, CA
03/08	Nemours Research Institute, Wilmington, DE
09/08	Lafayette College, Easton, PA
12/08	Cannon Research Center, Charlotte, NC
01/09	Department of Biology, Bogazici University, Istanbul, Turkey
10/09	University of Pennsylvania School of Medicine, Philadelphia, PA
03/10	UMass Medical School, Neurodegeneration Club, Worcester, MA
11/11	MRC Center for Neuromuscular Disorders, University College London, UK
01/12	Dept of Pediatrics, Nationwide Children's Medical Cntr. Columbus, OH
01/13	Neurology Grand Rounds, Univ. Massachusetts Medical School, Worcester, MA
03/13	Packard-ALS Center, Johns Hopkins University, Baltimore, MD
11/16	Brain Repair Center, University of Cambridge, Cambridge, UK
12/16	Department of Molecular Genetics, Biochemistry, and Microbiology, U. Cincinnati
01/17	University of Paris Descartes, Paris, France
01/18	Institute Neuromyogenie, Univ of Lyon, Lyon, France
06/18	Parent Project Muscular Dystrophy, Scottsdale, AZ
09/18	Dept. of Clinical Neuroscience, King's College, London, UK
11/18	Venetian Institute of Molecular Medicine, Padua, Italy
11/18	Dept. of Medicine, U. of Cambridge School of Clinical Medicine, Cambridge, UK
12/18	Molecular Biology and Genetics- KUTTAM, Koç University School of Medicine, Istanbul, Turkey
04/20	Universidad Autónoma de Madrid, Spain (Postponed due to Covid)
04/20	Biomedicine Institute of València, Spain (Postponed due to Covid)

Book Chapters and Reviews by invitation:

Lieth, E., A.M. Missias, E. Yang and J.R. Fallon. (1989) Agrin-related molecules at the developing neuromuscular junction. "The Assembly of the Nervous System" ed. by L.T. Landmesser. Alan R. Liss. New York. P. 213-233.

Fallon, J.R. (1991) Synapse formation: Rounding up acetylcholine receptors. *Current Biology* 1: 265-267

Nastuk, M.A. and J.R. Fallon. (1993) Agrin and the molecular choreography of synapse formation. *Trends in Neurosciences* 16: 72-76.

Fallon, J.R., and Hall, Z.W. (1994) Building synapses: Agrin and dystroglycan stick together. *Trends in Neurosciences* 17: 469-473

Bowe, M.A. and Fallon, J.R. (1995) Agrin and synapse differentiation. *Annual Review of Neuroscience* 18: 443-462

Deyst, K. and Fallon, J.R. (1995) Agrin: Towards a molecular understanding of synapse regeneration. *Neurosurgery* 37: 71-77.

- Froehner, S.C., and Fallon, J.R. (1995) Synapses take the Rap. *Nature* 377: 195-196.
- Wells, D.G., and Fallon, J.R. (1996) Neuromuscular junction: State of the union *Current Biology* 6: 1073-1075.
- Lisman, J.E., and J.R. Fallon (1999) What maintains memories? *Science* 283: 339-340.
- Fallon, J.R. (2000) Building inhibitory synapses: exchange factors getting into the act? *Nature Neurosci.* 3: 5-6.
- Wells, D. G., and J.R. Fallon (2000) Dendritic mRNA translation: deciphering the uncoded. *Nature Neurosci.* 3: 1062-1064.
- Hagiwara, H., and J.R. Fallon (2001) Shaping Membrane Architecture: Agrins In and Out of the Synapse. *J. Cell Biology* 153: F39-F42
- Taylor, A. and J.R. Fallon. (2006) Protein Synthesis in Neurons. *Encyclopedia of Life Sciences*.
- Lim, J.H., A.B. Booker, J.R. Fallon. (2005) Regulating fragile X gene transcription in the brain and beyond. *J. Cell. Physiol.* 205: 170-175.
- Lim, J.H., A.B. Booker, J.R. Fallon. (2005) Towards an understanding of fragile X gene regulation in the brain. *In The Molecular Basis of Fragile X Syndrome*. Y-J. Sung, and R.B. Denman, editors.
- Richter, J.D., and J.R. Fallon. (2007) Synapses go nucle(ol)ar. *Nat. Neurosci.* 10: 399-400.
- Akins M.R., Berk-Rauch H.E., and J. R. Fallon. 2009. Presynaptic translation: stepping out of the postsynaptic shadow. *Front Neural Circuits.* 3:17.
- Fallon, J.R. (2011) Calcium channels put synapses in their place. *Nat Neurosci.* 14:536-538.
- Young MF and Fallon JR. 2012. Biglycan: a promising new therapeutic for neuromuscular and musculoskeletal diseases. *Curr Opin Genet Dev.* (4):398-400. PMID: 22841370
- Fallon, J.R. (2013) On the path to a Duchenne Muscular Dystrophy therapy. *Rhode Island Medical Journal.* 96: 22-25.
- Fallon, J.R., and E.M. McNally. 2018. Non-Glycanated Biglycan and LTBP4: Leveraging the extracellular matrix for Duchenne Muscular Dystrophy therapeutics. *Matrix Biol.* 68-69:616-627.
- Fish, L.A. and Fallon, J.R. 2020. Multiple MuSK signaling pathways and the aging neuromuscular junction. *Neurosci. Lett.* 731, 135014.

Committee Memberships/Service Posts, 1997-

1997-03	Member, Neuroscience Graduate Program Training Committee, Brown University
1998-00	Faculty Coordinator, Neuroscience Graduate Program Retreat
1998-01	Director, Neuroscience Graduate Program, Brown University
1998-99	Director, Seminar Committee, Dept. of Neurosciences, Brown University
1999	Member, Faculty Search Committee, Dept of Mol. Pharmacology and Biotechnology
1999	Member, Faculty Search Committee, MCB Dept.
1999	Member, Admissions Committee, M.D./Ph.D. Program
1999	Member, Program Committee, Burroughs Wellcome Symposium "The Dynamic Brain"
1999-	Member, Radiation Safety Committee, Brown University
2000-	Member, Life Sciences Building Committee, Brown University
2000-3	Member of Neonatologist Search Committee, Department of Pediatrics, Women & Infants Hospital
2000-5	Member, Executive Committee, Center for Genetics & Genomics, Brown Univ.
2000	Chair, Faculty Search Committee, Department of Neuroscience
2001-2	Co-Chair, Strategic Planning Committee, Division of Biology and Medicine, Brown Univ.
2001-3	Co-Director, Neuroscience Graduate Program
2003	Chair, Faculty Search Committee, Department of Neuroscience

2004	Member, Faculty Search Committee, Center for Genetics and Genomics
2005-06	Chair, Faculty Search Committee, Department of Neuroscience
2007-8	Chair, Ad Hoc Tenure and Promotion Committee, Department of Neuroscience
2008-10	Health Careers Advisory Committee, Brown Alpert Medical School
2009-	Faculty Liaison, Brown–Boğaziçi (Istanbul) Kirac Exchange Program
2011-	Member, Radiation Safety Committee, Brown University
2012	Member, Faculty Search Committee, Dept. of Neuroscience, Brown University
2012	Internal Reviewer, Department of Molecular, Cellular and Developmental Biology
2014-16	Founding Co-Director, Brown Center for the Neurobiology of Cells and Circuits
2015-	Member, Radiation Safety Committee
2020-22	Member, Faculty Grievance Committee
2021-	Member, Institutional Biosafety Committee
2022-	Member, Executive Committee Center for Translational Neuroscience, Brown Univ.

Teaching:

Pre-1992	Medical and Dental Gross Anatomy, Medical Histology; Univ. of Pennsylvania and Stanford Univ. Medical Schools
1992	Advanced Topics in Cell Biology, Univ. of Mass. Medical School; Section Head
1993	Neurobiology Course, Marine Biological Laboratory, Guest Instructor
1993	Introduction to Cell Biology, Univ. of Mass. Medical School, Lecturer
1994-95	Introduction to Neurosciences, Univ. of Mass. Medical School; Section Head
1993-00	Review and Update in Neurobiology for Neurosurgeons, MBL, Woods Hole, MA
1997	BN 092 Co-course Director, Principles of Neurobiology, Brown University
1997	BN 294 Topics in Neurobiology: “Synaptic Plasticity” Brown University,
1998-07	BN 104 Course Director, Developmental Neurobiology, Brown University
2000	Neuroscience Fundamentals for Non-Biologists, Lecturer
2001	BN 102 Principles of Neurobiology, Brown University, Guest Lecturer
2002-07	BN 294 Course Director Topics in Neurobiology, “Mechanisms of Neurological Disease”,
2008-	BN 1740, Course Director, The Diseased Brain: Mechanisms of Neurological and Psychiatric Diseases
2009-11	BN 2930F, Course Director, Disease, Mechanism, Therapy: Harnessing Basic Biology for Therapeutic Dev.
2016	BN2030, Course Director, Cellular and Molecular Neurobiology
2017-	BN 193,G Seminar: From Disease to Therapy
2019-	NEUR2030, Advanced Cellular and Molecular Neurobiology, Guest lecturer

	<u>Dates</u>	<u>Current Position:</u>
<u>Former Predoctoral Trainees:</u>		
Jianyi Ma, WPI	1989-1993	Unknown
Mary-Alice Abbott (MD/PhD), UMass Chan	1995-1999	Chief, Medical Genetics Division, Baystate Associate Professor of Pediatrics at UMass Chan Medical School - Baystate
Laura Megeath, UMass Chan.	1993-1999	Community Outreach Coordinator Lourdes University Sylvania, OH
Michael Rafii (MD/PhD), NSGP	1997-2001	Medical Director, Alzheimer's Therapeutic Research Institute

Professor of Neurology
USC Keck School of Medicine

Eric Snyder, NSGP	1998-2002	Partner Novo Ventures Boston, MA
Hilliary Creely, UMass Chan	1999-2004	Dean, School of Graduate Studies and Research Indiana University of Pennsylvania
Jae Lim (MD/PhD), NSGP	2002-2005	Head and Neck/Skull Base Surgery Honolulu, HI
Aaron Taylor, NSGP	2003-2006	Director, Light Microscopy Facility HHMI Janelia Farms Ashburn, VA
Alison Amenta, NSGP	2002-2007	Senior Supervisor Siemens Healthineering
Anne Booker, NSGP	2003-2009	Research Associate Walter Reed National Military Medical Center
Atilgan Yilmaz, MCB	2006-2012	Assistant Professor KU Leuven, Leuven, BE
Hanna Berk-Rauch, NSGP	2006-2012	Program Supervisor NYU Langone Health New York, NY
Emily Stackpole, NSGP	2009-2014	Senior Medical Writer ApotheCom
Amanda Duffy, NSGP	2012-2018	Postdoctoral Fellow Massachusetts General Hospital Boston, MA
Diego Jaime, MCB	2016-2021	Scientist, Takeda Corp.
Lauren Fish NSGP	2016-2023	Postdoctoral Fellow, Brown U.
Laura Madigan, MCB	2016-2022	Senior Scientist 1. Abbvie Corp.
<u>Former Postdoctoral Trainees:</u>		
Erich Lieth	1988-1992	Independent Music Professional Chapel Hill, NC
Mary Nastuk	1989-1996	Editor New England Journal of Medicine Journal Watch Pediatrics and Adolescent Medicine

Katherine Deyst	1993-1998	Founder and Director Growing Places Garden Project, Inc Harvard, MA
Mark Bowe	1992-1998	Director Macrogenics, Inc. Rockville, MD
Duane Mendis	1996-1998	President and General Manager D-Mark Biosciences Toronto, Canada
David Wells	1995-2000	Associate Professor Department of Biology Yale University
Sandra Won	1999-2002	Unknown
Hiroki Hagiwara	2000-2003	Professor Dept. of Neurology Teikyo University of Science Uenohara, Japan
Hideki Kawai	2001-2003	Associate Professor, Faculty of Engineering Department of Bioinformatics Soka University, Tokyo, Japan
Lisa Gabel	2002-2004	Professor Department of Psychology Lafayette College Easton, PA
Mary Lynn Mercado	2002-2005	Senior Medical Writing Scientist Janssen Pharmaceutical Titusville, NJ
Sean Christie	2004-2006	Imaging Specialist Nikon Incorporated
Beatrice Lechner	2003-2006	Associate Program Director for Neonatal- Perinatal Medicine Department of Pediatrics Women and Infants' Hospital
Michael Akins	2007-2012	Regulatory Writer Certara Synchrogenix
<u>Current Master's Students:</u> Chengjie Xi	2022-	
Sei Hyun Choi	2022-	

Alex Von Eckartsberg 2022-

Former Masters students:

Xin Dong	1998-2001	Quantitative Analyst 1 st USA, Inc
Elizabeth Glater	1999-2000	Associate Professor Dept of Biology Pomona College Claremont, CA
John S. Page, MPPB	2019-2021	Medical Student Warren Alpert School of Medicine CEO, Bolden Therapeutics
Mark Gad, MPPB	2019-2021	PhD Student Rockefeller University
Faith Keller, MPPB	2020-2022	PhD Student UMass Chen Medical School
Julia Hecking, MPPB	2022-2023	Intern Bolden Therapeutics

Internal Thesis Examiner (Brown University)

1999 Stephanie Haus Schorge (NSGP)
 2001 Sunil Mehta, MPPB
 2002 Weifeng Xu, MPPB
 2004 Stephanie Lahousse, Pathobiology
 2004 Yong Yoon (MCB)
 2006 Troy Shrinagi (MCB)
 2006 Wendy Chen, (Neuroscience)
 2007 Gul Dolen (Neuroscience)
 2008 Judith Chapman (Psychology)
 2008 Jocelyn Lippman (Neuroscience)
 2010 Michael Ragusa (MPPB)
 2012 Breann Brown (MPPB)
 2012 Deborah Kwon (Brown-NIH Graduate Partnership Program)
 2013 Lulu Tsai (MCB)
 2013 Xiaoi Zhao (MCB)
 2013 Emily Normand (MCB)
 2013 Scott Herrick (NSGP)
 2014 Kristen Zukowsky (Brown-NIH Graduate Partnership Program)
 2014 Peter Lee (MPPB)
 2015 Asli Sahin, (MCB)
 2015 Scott Herrick (Brown-NIH Graduate Partnership Program)
 2015 Alec Nuckolls (GPP)
 2015 Arielle Nitinsen (NSGP)
 2016 Chris Niel (MCB)
 2015 Jessica Sadick (MPPB)

2016 Liam O'Connell (MCB)
2016 Tracey Suter (NSGP)
2017 Veronica Ryan (MCB)
2017 Amanda Audesse (MCB)
2017 Kelsey Nickerson (MCB)
2018 Kathryn Russo (MCB)
2018 Kaylee Matthews (MCB)
2018 Yuliya Nemtsova (MCB)

Undergraduate Honors Students Sponsored, Brown University:

2001 – Paul Santorum
2009 – Cally Sizer
2011 – Eunice Chyung
2012 – Hannah LeBlanc
2013 – Susan Slepian
2014 – Connie Liou
2017 – Tali Sorets
2018 – John Page
2021 – Madison Ewing
2022- Lizi Zhang

External Thesis Examiner:

1993 Paula Scotland, Department of Biochemistry, Dartmouth University Medical School
1995 Andrew Ahn, Program in Neurosciences, Harvard University Medical School
1996 Jason Campagna, Dept. of Cellular Pharmacology, University of Miami
1996 James Yeadon, Dept. of Biology, Massachusetts Institute of Technology
1996 Helene Puccio, Department of Genetics, Harvard Medical School
2000 Christian Jacobson, Department of Biology, McGill University
2001 Kristen O'Brien, Department of Genetics, Harvard Medical School
2002 Jonathan Trinidad, Dept. of Neurobiology, Harvard Medical School
2003 Peter Condon, Dept. of Biochemistry, U. Mass. Medical School
2004 Alison Compton, Dept. of Pediatrics, U. of Sydney, Australia
2004 Michael Bianchetta, Dept. of Neurobiology, Harvard Medical School
2004 Laura Antar, Albert Einstein School of Medicine
2005 Isin Dalkilic, Dept of Genetics, Harvard Medical School
2007 Rachel Peat, University of Sydney
2010 Michael Ragusa, Harvard University
2012 Ariya Lapan, Dept. of Genetics, Harvard Medical School

Publications

Nachmias, V.T., J.F. Sullender and J.R. Fallon (1979) Effects of local anesthetics in human platelets: filopodial suppression and endogenous proteolysis. *Blood* 53: 63-72.

Fallon, J.R., and V.T. Nachmias (1980) Localization of cytoplasmic and skeletal myosins in developing muscle cells by double label immunofluorescence. *J. Cell Biol.* 87: 237-47.

Nachmias, V. T., J. Sullender, J. R. Fallon and A. Asch. 1980. Observations on the "cytoskeleton" of human platelets. *Thromb. Haemost.* 42: 1661-6.

Nitkin, R.M., J. R. Fallon, B.G. Wallace and U.J. McMahan (1984) The role of extracellular matrix in regeneration of the neuromuscular junction. In *The Role of Extracellular Matrix in Development* pp. 596-662, ed. R.L. Trelstad, Alan R. Liss., New York.

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- Fallon, J.R., R.M. Nitkin, N.E. Reist, B.G. Wallace, and U.J. McMahan. (1985) Monoclonal antibodies directed against AchR-aggregating factor from *Torpedo* electric organ recognize molecules concentrated at neuromuscular junctions. *Nature* 315: 571-574.
- Wallace, B.G., R. M. Nitkin, N.E. Reist, J.R. Fallon, N.N. Moayeri and U.J. McMahan. (1985) AchR-aggregating factor from *Torpedo* electric organ also causes formation of AchE aggregates. *Nature* 315: 574-577.
- Wallace, B.G., N.E. Reist, R.M. Nitkin, J.R. Fallon and U.J. McMahan (1985) Monomolecular induction of two components of the postsynaptic apparatus in muscle. In *Molecular Determinants of Animal Form*, UCLA Symposium on Molecular and Cellular Biology, Vol. 31, pp. 385-392, ed. G. M. Edelman. Alan R. Liss Inc., New York.
- Fallon, J.R., R.M. Nitkin, B.G. Wallace, and U.J. McMahan (1985) Identifying the components of the muscle fiber basal lamina that aggregate AchR at the regenerating neuromuscular junctions. In *Molecular Basis of Neural Development* eds. G.M. Edelman, W. Einar Gall and W. Maxwell Cowan, Neuroscience Foundation, New York. pp. 61-66.
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Recent Abstracts:

- Rafii, M.R., Creely, H., and J.R. Fallon (2000) Role for the proteoglycan in Biglycan in Muscular Dystrophy. The American Society for Cell Biology.
- H.E. Creely, M.R. Rafii, N.S. Seo, D.J. McQuillan, W.Hoch, T. Xu, M.F. Young, J.R. Fallon (2001) Biglycan regulates Agrin-induced MuSK Activation. Society for Neuroscience. Abstract 904.2
- H. Hagiwara, M.R. Rafii, B.A. McKechnie, and J.R. Fallon (2001) Biglycan is an Extracellular Scaffolding Molecule for the Dystrophin-Associated Protein Complex. The 6th International Congress of the World Muscle Society. B.P.1.4.
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- H.E. Creely, B.M. McKechnie, D.M. McQuillan, J.R.Fallon. (2003) The role of biglycan in MuSK redistribution, agrin-induced MuSK phosphorylation and NMJ structure Viewer/Itinerary Planner. Washington, DC: Society for Neuroscience, 2003. Online.
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