

ERIN MARGARET SCHUMAN

PERSONAL

Birth date: May 15, 1963
Current status: Director, Professor
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Family status: Married, 3 daughters

EDUCATION

Ph.D.	Neuroscience	Princeton University	January, 1990
B.A.	Psychology	Univ. of Southern Cal.	May, 1985
	Neural Systems & Behavior	Marine Biological Lab	Summer, 1988

AWARDS AND HONORS

2018 Society for Neuroscience, Salpeter Lifetime Achievement Award
2017 Elected Member Academia Europaea
2017 Elected Member German National Academy of Sciences Leopoldina
2017 European Research Council, Advanced Investigator Grant
2016 Forbes Lectures, Marine Biological Laboratory
2014 Elected EMBO member
2013 Alexander Cruickshank Lecture, Gordon Research Conference
2013 Hodgkin-Huxley-Katz Prize
2013 Norbert Elsner Lecture, German Neuroscience Society
2011 European Research Council, Advanced Investigator Grant
2008 Gerard Lecture, University of California, Irvine
2005 Howard Hughes Medical Institute Investigator
2002 Howard Hughes Medical Institute Associate Investigator
1997 Howard Hughes Medical Institute Assistant Investigator
1996 Ferguson Biology Undergraduate Teaching Prize
1996-1998 Beckman Young Investigator Award
1995 Ferguson Biology Graduate Teaching Prize
1995 American Association of University Women Emerging Scholar
1995-1999 Pew Biomedical Scholar
1994-1998 John Merck Scholar
1994-1996 Alfred P. Sloan Research Fellow
1994-1996 McKnight Scholars Award (declined)
1991 Katherine McCormick Foundation fellow
1990 NIH postdoctoral fellowship
1986 NIH predoctoral fellow
1985 Phi Beta Kappa, graduation with honors
1985 Sigma Xi Outstanding Undergraduate Research Award

EMPLOYMENT

2009-	Director, Max Planck Institute for Brain Research, Frankfurt
2013-2016	Managing Director, Max Planck Institute for Brain Research
2015-present	Professor, Biology, Goethe University Frankfurt
2004-2010	Professor, Caltech, Biology
2007-2009	Option Representative, Division of Biology, Caltech
2008	INSERM-Visiting Faculty, Ecole Normale Supérieure, Paris
2005	Visitor in Biology, Russ Fernald's lab, Stanford University
2004-2009	Investigator, HHMI
2002-2004	Associate Investigator, Howard Hughes Medical Institute
2000-2006	Executive Officer in Biology, Caltech
1999-2004	Associate Professor, Caltech, Biology
1997-2002	Assistant Investigator, Howard Hughes Medical Institute
1993-1999	Assistant Professor, Caltech, Biology
1990-1993	Postdoctoral Fellow, Stanford University, Mol-Cell Physiology
1990	Postdoctoral fellow, Princeton University, Neuroscience/Psychology
1985-1990	Graduate student, Princeton University, Neuroscience/Psychology

Advisory/Editorial Boards

2018-	Panel Member, Lundbeck Foundation Talent Panel 2019
2018-	Councilor, Society for Neuroscience
2018	Brain Research Institute, HiFo, University of Zurich, SAB
2017	External Evaluation Board, IBENS, Paris
2017-	European Training Network ZENITH
2017-	Simons Initiative for the Developing Brain, Univ. of Edinburgh, UK
2017-	Center for Integrative Biology, College de France
2016-	Editorial Board, Neuron
2016-	Frankfurt International School, Board of Trustees
2016-	Editorial Board, Annual Review of Cell and Developmental Biology
2016	11 th RIKEN Brain Science Advisory Council (BSAC), Japan
2016	Advisory Committee, Harvard University, Molecular-Cellular Biology
2016	DFG (German Research Foundation) Review Board (Priority Program)
2015-	Neurobiology Advisory Group, EMBL Monterotondo
2015-	Scientific Advisory Board, NERF Neuroelectronics Research Flanders
2015-2017	Frankfurt International School Advisory Council
2014-	FENS Brain Conferences Committee (BCC)
2014- 2017	Gruber Neuroscience Prize Committee
2014-	Chair, Scientific Advisory Board, MRC Centre for Dev Neurobiology (UK)
2014-	Associate Editor of Neuroscience Research (Japan)
2014	10 th RIKEN Brain Science Advisory Council (BSAC), Saitama, Japan
2013-2016	Scientific Advisory Committee, Foundation for Dystonia Research
2013	Scientific Advisory Board, VIB Center for the Biology of Disease
2013-2016	Axelrod Neuroscience Prize Selection Committee
2011-2014	Panel Member, ERC Starting Grant Selection Committee
2011-	Scientific Advisory Board, Kavli Institute, Trondheim, Norway
2011-2016	Editorial Board, Learning & Memory

2010-2013	Society for Neuroscience International Affairs Committee
2010-2015	Wellcome Trust Core Interview Panel
2010-2014	Scientific Advisory Board, Neuroscience Institute, Helsinki
2009-	Associate Editor, Current Opinion in Neurobiology
2008	Advisory Committee, Harvard University, Molecular-Cellular Biology
2004-2007	NIH Study section regular member, SYN

Meeting Organization

2018	Co-Organizer, Logistics of Neuronal Function, Frankfurt
2018	Co-Organizer, Dendrites 2018, Crete, Greece
2016-	The Brain Conferences Committee, Spring Brain Conference
2013-2015	Chair and Organizer, RNA Localization Conference 2015, Crete, Greece
2013-2014	Organizer Janelia High-throughput Sequencing for Neuroscience
2012	FENS Forum (2014) Program Committee
2011	Co-Chair, Gordon Conference on Dendrites
2009	Co-Organizer, Cell-adhesion symposium, Cell Biology meeting
2009	Organizer, JFRC Protein Translation at the Synapse
2007	Organizer, JFRC Protein Translation at the Synapse
2003	Co-Chair, Cold Spring Harbor Meeting on Learning and Memory
2001	Chair, Gordon Conference on Neural Plasticity
2001	Co-Organizer, Keystone Meeting on the Hippocampus and Synapses
1998	Chair, Gordon Conference on Neural Plasticity

Teaching

2011-present	IMPRS Lecturer
2006-2009	Co-Instructor, Bi129, Cellular Dynamics
2004-2009	Co-Instructor, Bi162, Cellular Neurophysiology
2003-2009	Guest Lecturer, Bi150 and Bi156, Neurobiology
1998-2003	Co-Instructor, Bi260, How to give a seminar
1996-1998	Co-Director, Brain Development and Function Course, CSHL
1995	Faculty, Neural Systems and Behavior, Marine Biological Laboratory
1994-2002	Co-Instructor, Bi150, Neurobiology
1994-2005	Co-Instructor, Bi80, Current Research

Committees and Groups

2018-	MPG Sexual Harassment Committee
2018-	Jury member Hermann Neuhaus Prize for Postdocs in the MPG
2016	Horizons 2020 Grant Panel Reviewer
2016-	PI, DFG CRC, Resilience
2016-	EMBO Long-term Postdoc Fellowship Committee
2016-	FENS Brain Conferences Committee
2012-	MPI for Molecular Genetics Search Committee
2012-	Working Group to support female scientists in the MPG
2011-2014	MPG Perspective's Committee
2011-	CAESAR Search Committee
2011-2015	IMPRS for Neural Circuits, Spokesperson
2010	Max Planck 20X2020 Initiative Author
2011	Biology of Sleep Search Committee

2011- PI, DFG CRC 1080, Homeostasis
2011- PI, Cluster of Excellence, Macromolecular Complexes
2010- PI, DFG CRC 902, RNA regulation
2010-2011 Max Planck Florida Institute
2010 MPG 2010+ Co-Author

Caltech Committee Work

2007-2009 Admissions Task Force
2006-2009 Chair, Genetics of Neural Circuits and Behavior
2006-2009 Institute Convocations committee
2006-2009 Faculty Committee on Recruiting and Retaining Women and Minority Faculty
2005-2009 Cellular and molecular biology search committee
2006-2009 Behavior & Genetics Search committee chair
2003-2009 Target of Opportunity committee
2000-2009 Division of Biology Postdoctoral Fellowship committee
2002-2009 Cellular & Molecular Neuroscience Qualifying Exam chair
2002-2006 Behavior & Genetics Search Committee
2003 Faculty Board nominating Committee
2002 Child Care Committee
2001-2004 Faculty Board
2003-2004 Bioengineering Search Committee

Invited Talks at Universities, Research Centers and Conferences

2018

Milner Centenary Symposium, Rockefeller University, NY
Francis Crick Institute, London, UK
SfN Annual Meeting, Mini-symposium on Neural Proteomics, San Diego, CA
Wellcome Trust India Alliance EMBO Symposium, New Delhi, India
Sussex Neuroscience, University of Sussex, Brighton, UK
Keynote lecture, Harris and Holt Farewell Symposium, Cambridge, UK
SAB symposium, Kavli Center for Systems Neuroscience, Trondheim, Norway
Leopoldina Symposium, Halle/Saale, Germany
Fondation des Treilles, Synapses: from Complexity to Diversity, Paris, France
Edinburgh Neuroscience Day 2018, Annual Distinguished Lecture, Univ Edinburgh
DFG Conference "RNA Transport Meeting 2018", Düsseldorf, Germany
Genomics & Systems Biology VIII at NYU Abu Dhabi, UAE

2017

Keynote Lecture, EMBL Graduation Ceremony, Heidelberg, Germany
Cell Symposia: Big questions in Neuroscience, Arlington, VA
Bordeaux Neurocampus Inaugural Conference, France
Janelia Farm Conference on Cell Biology of Neurons & Circuits, Ashburn, VA
Brain Prize Symposium, Lund, Sweden
ISN-ESN Symposium, Paris, France
RNA Conference on Localization and Local Translation, Barga, Italy
FENS-IBRO Cajal Course, Champalimaud Center for the Unknown, Lisbon, Portugal
Stockholm Nordic Neuroscience Meeting, Stockholm, Sweden
GRC on Dendrites, Il Ciocco, Barga, Italy

King's College, Wohl Imaging Center Opening Symposium, London, UK
MPI-Cambridge Neuroscience Meeting, Berlin, Germany
2016

EMBO/EMBL Symposium: Complex Life of mRNA, Heidelberg, Germany
Soc. for Neurochemistry, INC-JCN Flagship School, Alpbach, Austria,
Caltech, Norman Davidson Anniversary Lecture, Pasadena, CA
DENDRITES 2016, Keynote Lecture, Crete, Greece
UCL, London, UK

MIT, Picower Institute for Learning and Memory, Cambridge, MA
Neuroscience School of Advanced Studies, Bressanone, Italy
Forbes Lectures, Marine Biological Laboratory, Woodshole MA
University of Göttingen Medical Center, Göttingen, Germany
IGMM Edinburgh, Scotland
2015

Science for Life Symposium, Utrecht University, Netherlands
Society for Neuroscience Symposium on Dendrite Development & Function, USA
16th National Congress of the Spanish Society of Neuroscience, Granada, Spain
Sunposium, MPI Florida, Jupiter USA
IMP-IMBA-BI Meeting, Vienna, Austria
Brandeis University, Bauer Distinguished Lecturer, Waltham, MA
University of Massachusetts, Worcester, MA
Adrian Lecture, University of Cambridge, UK
Max Planck Institute for Psychiatry, Munich, Germany
5th European Synapse Meeting, Bristol, UK,
Zebrafish Workshop, Janelia Farm Research Campus, Ashburn, VA
FMI for Biomedical Research, Basel, Switzerland

2014

EMBL-La Sapienza Seminar Series, Monterotondo, Rome, Italy
Freiburg University, Germany
School of Biosciences, Cardiff University, Wales
Collège de France, Paris, France
15th EMBL/EMBO Science and Society Conference, Chair, Heidelberg, Germany
Janelia Conference on High-Throughput Sequencing for Neuroscience, Ashburn, VA
Translational Control Meeting Wellcome Trust, Keynote Address, London, UK

2013

Baylor College of Medicine, Houston, Texas, USA
The University of Texas at Austin, USA, Winter
Bordeaux Neurocampus, Bordeaux, France,
DGIST Distinguished Lecture, Daegu, Korea
Rockefeller University, NY, NY
Université Paris Descartes, Paris, France
ICM, Paris, France
Max Planck Institute for Medical Research, Heidelberg, Germany
TEDx: The Brain, Caltech, Pasadena CA
LTP Meeting by the Royal Society, London, UK
IFM International Colloquium 2013, Paris, France
10th Horizons in Molecular Biology Symposium, Göttingen, Germany
Hodgkin-Huxley-Katz Prize Lecture, IUPS, Birmingham, UK

Gordon Research Conference on Dendrites, Les Diablerets, Switzerland
10th Meeting of the German Society of Neuroscience, Göttingen, Germany
107th International Titisee Conference, Titisee, Germany

2012

Neuroscience Seminar, Max Planck Institute Florida, Jupiter, Florida

CNS Colloquium, NYU, New York,

Research Institute of Molecular Pathology, Vienna, Austria

IBMB Barcelona, Spain

Instituto de Neurociencias, Alicante, Spain,

Centro de Biología Molecular, Madrid, Spain

Institute of Neuroscience, Newcastle-upon-Tyne, UK

Centre for Integrative Physiology, Edinburgh, Scotland

MRC LMB, Cambridge, UK,

EMBL, Heidelberg, Germany

Brain Research Institute, University of Zurich, Switzerland

Champalimaud Neuroscience Symposium, Lisbon, Portugal

Kavli Prize Symposium on Neuroscience 2012, Bergen, Norway

RIKEN BSI Summer Program 2012, Japan,

14th International Winter Neuroscience Conference, Soelden, Austria

Janelia Dendrites: Substrates for Information Processing, Ashburn, VA

Molecular Neurobiology, Weizmann Institute of Science, Rehovot, Israel

2011

VIB, K.U. Leuven & Vesalius Research Center, Leuven, Belgium

Single-Unit Human Recordings, New York University, NY

Max Delbrück Center for Molecular Medicine, Berlin, Germany

Pharmazentrum Frankfurt, University Hospital Goethe-University Frankfurt, Germany

Society for Neuroscience Special Lecture, SfN Meeting, Washington DC

Nobel Forum Lecture, Karolinska Institutet, Stockholm, Sweden

Ascona Neuronal Circuits Meeting, Ascona, Switzerland,

ISN 2011 Meeting, Athens, Greece

IEEE • ICDL • EPIROB 2011, Keynote lecture Frankfurt, Germany

EMBO Conf. on Intracellular RNA Localization & Localized Translation, Barga, Italy

8th IBRO World Congress of Neuroscience, Florence, Italy

34th German Society for Cell Biology (DGZ), Bonn, Germany

Translational Regulation in the CNS, German SfN, Göttingen, Germany

University of Oxford, Physiology, Anatomy and Genetics, Oxford, UK

2010

Stanford University, Molecular and Cellular Physiology, Palo Alto, CA

Institute for Cell Biology and Neuroscience, Goethe-University, Frankfurt, Germany

Harvard, Center for Brain Science, Boston, MA

Europ. Symp. on Imaging Structure & Function in the Zebrafish Brain, Lisbon, Portugal

XIIIth Magdeburg Neurobiological Symposium, Magdeburg

FENS Forum, Amsterdam, The Netherlands

GRC on the Cell Biology of the Neuron, Waterville Valley Resort, NH

AREADNE , Encoding & Decoding of Neural Ensembles, Santorini, Greece

Ribosomes Keynote, Orvieto, Italy

1st Francis Crick Symposium on Neuroscience, Suzhou, China

Janelia Farm Conference on Structural Plasticity in the Mammalian Brain, Ashburn, VA

SFB Initiative Mainz-Frankfurt on Mechanisms of Molecular Adaptation, Mainz, Germany
Max Planck Unit for Structural Molecular Biology, Hamburg, Germany
Bernstein Center for Computational Neuroscience, Berlin, Germany
Neuroscience Center Niederrad, Frankfurt, Germany
SFB/TR 3, University Hospital, Bonn, Germany

2009

MRC Laboratory for Molecular Cell Biology, UCL, London, UK
Biozentrum, Basel, Switzerland,
Allen Institute, Seattle, WA

Janelia Meeting on Dendritic Translation, Ashburn, VA

Gordon Conference on Cell Adhesion,

FASEB Meeting on RNA translation

Gordon Conference on Dendrites, Ventura, CA

Learning and Memory meeting, UCI, Irvine, CA

Case Western University, Case Western, Ohio

2008

UCI, Gerard Lecture, Irvine, CA

Hippocampus Conference, Spitsbergen Norway

Hinxton meeting, Cambridge, UK

Bergamo Scienza, Keynote public lecture, Bergamo, IT

University of Michigan, Agranoff Lecture, MA

Ecole Normale Superieure, Paris, France

2007

University of Pennsylvania Children's Hospital, Philadelphia, PA

CSHL and EMBL Protein Translation, Keynote address, Heidelberg, Germany

Protein Translation at the Synapse, Janelia Farm, Ashburn, VA

Mass Spectrometry in the Health & Life Sciences, San Francisco, CA

Gordon Research Conference on Neural Circuits

Banbury Center Fragile X meeting, Cold Spring Harbor, NY

Johns Hopkins University, Neuroscience, Baltimore, MA

USC, Zilkha Neurogenetics Institute, LA, CA

University of Minnesota, Department of Neuroscience, Minneapolis, MN

Scripps Research Institute, San Diego, Ca

2006

Ecole Normale Superieur, Paris, France

University of New Mexico, Grass Traveling Lecturer, Santa Fe, NM

Rockefeller University, NY, NY

Emory University, Atlanta, GA

Carnegie Mellon University, Philadelphia, PA

Cold Spring Harbor, Learning and Memory, 2006

2005

RNA and Protein Synthesis, Kfar Blum, Israel, 2005

Molecular and Cellular Physiology, Stanford, Fall 2005

Vollum Institute, Winter, 2005

Neuroscience, UT Southwestern, Dallas, Winter, 2005

Women in Life Sciences Speaker, UCSF, Winter, 2005

2004

Montreal Neurological Institute, McGill University, Winter, 2004

Washington University Neuroscience, Spring, 2004
Penn Neurobiology, Spring, 2004
Harvard Medical School, Neurobiology, Spring, 2004
UT Southwestern Medical Center, Dallas, Winter, 2004
University of California, Santa Cruz, Winter, 2004
Picower Center for Learning and Memory, Learning Meeting, 2004
Molecular mechanisms of long-term memory, SFN symposium speaker, 2004
The Cytoskeleton and Synaptic Function, San Diego, 2004
Gordon Research Conference on the Cell Biology of the Neuron, 2004

2003
University of Colorado Denver, CO
Pasteur Institute, Paris, France
Neuron's 15th anniversary symposium: Cell Biology of the Neuron, New Orleans, LA
Assembly of Neural Circuits, Ascona, Switzerland
Formation and Function of Neural Circuits, Varenna, Italy
30th Anniversary of LTP, Royal Society, London, UK

2002
Laboratoire de Physiologie Cerebrale, CNRS, Paris, France
USC, LA, CA
Stanford, Molecular and Cellular Physiology, Palo Alto, CA
Learning and Behavior, UCLA, LA, CA
Cellular Motility and Signaling, Keystone, Taos, NM

2001
Cellular and Molecular Medicine, UCSD, San Diego, CA
MIT, Center for Learning and Memory, Boston, MA
Harvard Medical School, Boston, MA
Harvard, Molecular and Cellular Biology, Boston, MA
UCSD, Molecular Medicine, San Diego, CA
Learning and Memory Symposium, UCI, Irvine, CA
Harvard-Armenise Foundation Symposium, Milano, Italy
Keystone Meeting on Synaptic Function and the Hippocampus, Taos, NM
Cold Spring Harbor Learning and Memory Meeting, CSH, NY

2000
UCSF, San Francisco, CA
Duke University, Durham, NC
University of Pittsburgh, PA
UC Berkeley, Berkeley, CA
Gordon Research Conference on Neural Development, Salve Regina, NH
Gordon Research Conference on The Cell Biology of the Neuron, Plymouth, NH

1999
Harvey Mudd College, Pomona, CA
Neuronal Circuits, Monte Verita, Ascona, Switzerland
FASEB Meeting, Symposium on Local Protein Synthesis, Washington, D.C.

1998
Institute for Neurobiology, Max Planck Institute, Martinsried, Munich, Germany
Wake Forest University, Bowman Gray School of Medicine, NC
Washington University, McDonnell Neuroscience Speaker, St. Louis, MI
University of Chicago, Chicago, IL

Salk Institute and UCSD Neuroscience, La Jolla, CA
Whitehead Institute Symposium on Neurobiology, Boston, MA
Frontiers of Science, National Academy of Sciences, Irvine, CA
Cortical Plasticity: the representation of experience, Berlin, Germany
Gordon Research Conference on The Cell Biology of the Neuron, Plymouth, NH
Keystone Symp. The Hippocampus, Park City, UT

1997

Northwestern University Neurobiology Dept., Chicago, I
NIH, Neuroscience Lecture Series, Winter, Bethesda, MD
NYU, Neural Sciences Dept., NY, NY
Stanford University Neuroscience Retreat, Palo Alto, CA
Society for Neuroscience, Molecular Basis of Long-term Memory, New Orleans, LA
Gordon Research Conference on Neural Plasticity, NH,
Gordon Research Conference on Neurotrophins, Newport, RI
Neurotrophins in Development and Plasticity, Osaka, Japan
Dahlem Conference on Learning and Development, Berlin, Germany
UCI, Psychobiology Dept., Irvine, CA
UCLA, Neuroscience Dept., LA, CA
UC Berkeley, Neuroscience Dept., Berkeley, CA
U. Washington, Dept. Pharmacology/Neuroscience, Seattle, WA

1996

Johns Hopkins University, Neuroscience Dept., Baltimore, MA
LUMC, Neuroscience Dept
U. Iowa, Biology Dept.,
4th NGF Conference, LondonUK
Spring Hippocampus Meeting, Grand Cayman, BWI
Keystone Symposium on Signal Transduction, Taos, NM

1995

Neurotrophic factors in development, plasticity & survival, Madison, WI
Gordon Research Conference on Neurotrophins, Plymouth, NH
UC Davis, Center for Neuroscience, Davis, CA
Duke University, Dept. of Neurobiology, Durham, NC
University of Texas, Dept. of Pharmacology, San Antonio, TX
University of Southern California, Neuroscience Dept., LA., CA
University of Minnesota, Dept. of Physiology, Minnesota, MN

1994

Gif sur Yvette: The latest in synaptic transmission, Paris, France
European Society for Neurochemistry, Jerusalem, Israel
Brain Development and Function Course, Cold Spring Harbor, NY
FASEB Meeting, Anaheim, CA
City of Hope, Neuroscience group, Duarte, CA
University of Oregon, Neuroscience Institute, Eugene, OR
SUNY Stonybrook, Department of Pharmacology, Stonybrook NY

1993

Hopkins Marine Station, Monterey, CA
Banbury Meeting: Molecular Aspects of NO and NO Synthase, Cold Spring Harbor, NY
IUBMB Meeting: Biochemistry of Cellular Membranes, Bari Italy
Keystone Meeting: Molecular aspects of signal transduction. Taos, NM

American Chemical Society, NO symposium, Richmond, VA
1992

Duke University, Neurobiology Department, Durham, NC

Nitric Oxide: Brain and Immune system, Calabria, Italy

Brain Development and Function Course, Cold Spring Harbor, NY

Keystone Meeting: Synapse Formation and Function, Big Sky, Montana

Cold Spring Harbor Conference on Learning and Memory, NY

Community Seminars

Royal High School, Girl's Science Lecture, Bath UK 2016

Frankfurt International School, Girls Science Lecture, 2016

TedX Brain, Pasadena, CA 2013

Ernest Watson Public Lecture, 2007

Caltech Trustee's Board Meeting, 2007

Caltech Associate's President's Circle speaker, 2006

SURF summer speaker, 2003, 2005

WEST evening speaker, Fall, 2001

Caltech Discovery Weekend, Spring, 1997

Caltech Board of Trustees, Winter, 1997

Watson Lecture, Fall, 1996

Discovery Weekend, Caltech Development, Spring, 1996

Sigma Xi, L.A. Hughes Chapter, Spring, 1996

Caltech Physics Colloquium, Winter, 1995-1996

Keynote Address, AAUW, Bridges to Tomorrow, Fullerton, CA, Winter, 1995-1996

Helmholtz Lecture, UCI, Spring, 1995

Caltech Associates, Pasadena, CA, Fall, 1995

American Assoc. of University Women Foundation, Orlando, FL, Summer, 1995

Alzheimer's Disease: Causes and Effects, Caltech, Spring, 1995

West Coast Nerve Net, Caltech, Spring, 1995

Caltech Seminar Day, Spring, 1995

Caltech CNS Seminar, Spring, 1993

Caltech, Biology Division, Spring, 1992

PUBLICATIONS

Kreis, P., Gallrein, C., Rojas-Puente, E., Mack, T., Kroon, C., Dinkel, V., Willmes, C., Murk, K., tom-Dieck, S., Schuman, E.M., Kirstein, J., and Eickholt, B. (2019). ATM phosphorylation of the actin-binding protein drebrin controls oxidation stress-resistance in mammalian neurons and *C. elegans*. **Nature Communications**, in press.

Alvarez-Castelao, B., Schanzenbaecher, C.T., Langer, J.D., and Schuman, E.M. (2019). Cell-type-specific metabolic labeling, detection and identification of nascent proteomes *in vivo*. **Nature Protocols**, published online on January 4, 2019. doi: 10.1038/s41596-018-0106-6.

Rangaraju, V., Lauterbach, M., and Schuman, E.M. (2019). Spatially stable mitochondrial compartments fuel local translation during synaptic plasticity. **Cell**, 176, 1-12. doi: 10.1016/j.cell.2018.12.013.

Elamri, I., Heumüller, M., Herzig, L.-M., Stirnal, E., Wachtveitl, J., Schuman, E.M., and Schwalbe, H. (2018). A new photocaged puromycin for an efficient labeling of newly

translated proteins in living neurons. **ChemBioChem** 19 (23):2458-2464, doi: 10.1002/cbic.201800408.

Dörrbaum, A.R., Kochen, L., Langer, J.D., and Schuman, E.M. (2018). Local and global influences on protein turnover in neurons and glia. **eLife** 2018, doi: 10.7554/eLife.34202.

Tushev, G., Glock, C., Heumueller, M., Biever, A., Jovanovic, M., and Schuman, E.M. (2018). Alternative 3'UTRs modify the localization, regulatory potential, stability, and plasticity of mRNAs in neuronal compartments. **Neuron**, 98, 495-511. doi:10.1016/j.neuron.2018.03.030.

Schanzenbaecher, C.T., Langer, J.D., and Schuman, E.M. (2018). Time- and polarity-dependent proteomic changes associated with homeostatic scaling at central synapses. **eLife** 2018;7:e33322. doi: <https://doi.org/10.7554/eLife.33322>

Alvarez-Castelao, B., Schanzenbaecher, C.T., Hanus, C., Glock, C., tom Dieck, S., Dörrbaum, A.R., Bartnik, I., Nassim-Assir, B., Ciirdaeva, E., Mueller, A., Dieterich D.C., Tirrell, D.A., Langer, J.D., Schuman, E.M. (2017). Cell-type-specific metabolic labeling of nascent proteomes *in vivo*. **Nature Biotechnology**, 35: 1196-1201. doi:10.1038/nbt.4016

Glock, C., Heumueller, M., and Schuman, E.M. (2017). mRNA transport & local translation in neurons. **Current Opinion in Neurobiology**, 45: 169-177. doi: 10.1016/j.conb.2017.05.005

Rangaraju, V., tom Dieck, S., and Schuman, E.M. (2017). Local translation in neuronal compartments: how local is local? **EMBO Reports**, 18(5): 693-711. doi: 10.15252/embr.201744045

Sambandan, S., Akbalik, G., Kochen, L., Rinne, J., Kahlstatt, J., Glock, C., Tushev, G., Alvarez-Castelao, B., Heckel, A., and Schuman, E.M. (2017). Activity-dependent spatially localized miRNA maturation in neuronal dendrites. **Science**, 355 (6325), 634-637.

Vlatkovic, I., Sambandan, S., Tushev, G., Wang, M., Epstein, I., Glock, C., Fuerst, N., Cajigas, I.J., and Schuman, E.M. (2017). Poly(A) Binding Protein Nuclear 1 regulates the polyadenylation of key synaptic plasticity genes and plays a role in homeostatic plasticity. **bioRxiv** 121194.

Akbalik, G., Langebeck-Jensen, K., Tushev, G., Sambandan, S., Rinne, J., Epstein, I., Cajigas, I.J., Vlatkovic, I., and Schuman, E.M. (2017). Visualization of newly synthesized neuronal RNA *in vitro* and *in vivo* using click-chemistry. **RNA Biology**, 14(1):20-28. doi: 10.1080/15476286.2016.1251541. Epub 2016

Schanzenbaecher, C.T., Sambandan, S., Langer, J.D., Schuman, E.M. (2016). Nascent proteome remodeling following homeostatic scaling at hippocampal synapses. **Neuron**, 92, 358-371.

Hanus, C., Geptin, H., Tushev, G., Garg, S., Alvarez-Castelao, B., Sambandan, S., Kochen, L., Hafner, A.S., Langer, J.D., Schuman, E.M. (2016). Unconventional secretory processing diversifies neuronal ion channel properties. **eLife**, doi:10.7554/eLife.20609

Chen, W. and Schuman, E.M. (2016). Circular RNAs in brain and other tissues: a functional enigma. **Trends in Neurosciences**, 39(9):597-604,

doi:10.1016/j.tins.2016.06.006

Mahdavi, A., Hamblin, G., Jindal, G., Bagert, J., Dong, C., Sweredoski, M., Hess, S., Schuman, E.M., and Tirrell, D.A. (2016). An engineered aminoacyl-tRNA synthetase for cell-selective analysis of mammalian protein synthesis. **Journal of the American Chemical Society**, 138, 4278-4281, doi: 10.1021/jacs.5b08980

Tushev, G. & Schuman, E.M. (2016). Rethinking functional segregation: Gradients of gene expression in area CA1. **Neuron**, 89, 242-243, doi:10.1016/j.neuron.2016.01.002

Martin, K.C. & Schuman, E.M. (2015). Opting in or out: variable network solutions for learning. **Science**, 350 (6267): 1477-1478, doi: 10.1126/science.aad9467

Alvarez-Castelao, B. & Schuman, E. M. (2015). The Regulation of Synaptic Protein Turnover. **J Biol Chem**, 290: 28623-28630, doi:R115.657130 [pii] 10.1074/jbc.R115.657130.

tom Dieck, S., Kochen, L., Hanus, C., Bartnik, I., Nassim-Assir, B., Merk, K., Mosler, T., Garg, S., Bunse, S., Tirrell, D.A. and Schuman, E.M. (2015). Direct visualization of identified and newly synthesized proteins *in situ*. **Nature Methods**, 12: 411-414, doi:10.1038/NMETH.3319.

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