

## Curriculum Vitae

### Rejji Kuruvilla PhD

Professor

The Johns Hopkins University

Department of Biology

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#### Education:

- 1984-1987 St. Xavier's College, Calcutta, India  
B.S. Chemistry
- 1989-1990 University of Calcutta, India  
B.Ed. Education
- 1993-1998 University of Houston, Texas  
Ph.D., Biochemistry, Dr. Joseph Eichberg, Advisor

#### Post-doctoral Research:

- 1998-2005 Johns Hopkins University School of Medicine  
Neuroscience, Dr. David Ginty, Advisor

#### Professional Experience:

- 1990-1992 High School Science Teacher, Pratt Memorial Girls High School, Calcutta, India
- 1993-1998 Graduate Student, University of Houston, TX
- 1993-1997 Teaching Assistant, University of Houston, TX
- 1998-2005 Postdoctoral fellow, Solomon Snyder Dept. of Neuroscience, Johns Hopkins School of Medicine, MD
- 2005-2012 Assistant Professor, Dept. of Biology, The Johns Hopkins University, MD
- 2007- Adjunct faculty, Solomon Snyder Dept. of Neuroscience, Johns Hopkins School of Medicine, MD
- 2012- Associate Professor (tenured), Biology, The Johns Hopkins University, MD
- 2014-2016 Deputy Director, Graduate Program in Cell, Molecular, Developmental Biology and Biophysics (CMDB), Johns Hopkins University
- 2016- Director, Graduate Program in Cell, Molecular, Developmental Biology and Biophysics (CMDB), Johns Hopkins University
- 2019- Professor, Biology, The Johns Hopkins University, MD

#### Honors and Awards:

- 1993 Outstanding Teaching Assistant, Biochemistry, University of Houston
- 1997 Basic Research and Academic Initiatives in Neurosciences (BRAIN) award, University of Houston
- 1998 Graduate Student Achievement Award, Sigma Xi Society, University of Houston

2005	Helen B. Taussig Young Investigator Award, Johns Hopkins School of Medicine, MD
2007, 2008	Finalist, Johns Hopkins Alumni Association Excellence in Teaching Awards
2015	Catalyst Award for early career faculty, The Johns Hopkins University
2015	Discovery Award for collaborative research, The Johns Hopkins University
2016	Named the William D. Gill Associate Professor of Biology

### **Peer-reviewed Research Publications:**

1. Crerar H<sup>#</sup>, Scott-Solomon E<sup>#</sup>, Bodkin-Clarke C<sup>#</sup>, Andreassi C, Hazbon M, Logie E, Cano-Jaimez M, Gaspari M, Kuruvilla R<sup>\*</sup>, Riccio A<sup>\*</sup>. Regulation of NGF Signaling by an Axonal Untranslated mRNA. **Neuron**. 2019 Feb 27. pii: S0896-6273(19)30120-5. <sup>#</sup>co-first authors, <sup>\*</sup>co-corresponding authors.

Preview by Panayotis, N and Fainzilber, M. Hidden Figures: A Non-translated RNA Regulates Axonal Neurotrophin Signaling. **Neuron**. May 8 2019.

2. Ceasrine AM<sup>\*</sup>, Lin EE, Lumelsky DN, Ruiz-Ortero N, Boehm, E and Kuruvilla R. Tamoxifen improves glucose tolerance in a delivery, sex, and strain-dependent manner in mice. **Endocrinology**. 2019 Apr 1;160(4):782-790. <sup>\*</sup>corresponding author.

3. Ceasrine AM, Lin EE, Lumelsky DN, Iyer R, and Kuruvilla R. Adrb2 controls glucose homeostasis by developmental regulation of pancreatic islet vasculature. **Elife**. 2018 Oct 10;7. pii: e39689.

4. Yamashita N, Joshi R, Zhang S, Zhang ZY, Kuruvilla R. Phospho-regulation of soma-to-axon transcytosis of neurotrophin receptors. **Dev Cell**. 2017 Sep 25;42(6):626-639

Preview in Barford K, Keeler A, Deppmann C, Winckler B. TrkA Bumps into Its Future Self. **Dev Cell**. 2017 Sep 25;42(6):557-558.

5. Chen CM, Orefice LL, Chiu SL, LeGates TA, Hattar S, Haganir RL, Zhao H, Xu B, Kuruvilla R. Wnt5a is essential for hippocampal dendritic maintenance and spatial learning and memory in adult mice. **Proc Natl Acad Sci U S A**. 2017 Jan 24;114(4):E619-E628.

6. Subashini C, Dhanesh SB, Chen CM, Riya PA, Meera V, Divya TS, Kuruvilla R, Buttler K, James J. Wnt5a is a crucial regulator of neurogenesis during cerebellum development. **Scientific Reports** 2017 Feb 16;7:42523.

7. Houtz J, Borden P, Ceasrine A, Minichiello L, and Kuruvilla R. Neurotrophin signaling is required for glucose-induced insulin secretion. **Dev Cell**. 2016 Nov 7;39(3):329-345

8. Patel A, Yamashita N, Ascaño M, Bodmer B, Boehm E, Bodkin-Clarke C, Ryu YK, and Kuruvilla R. RCAN1 links impaired neurotrophin trafficking to aberrant development of the sympathetic nervous system in Down syndrome. **Nat Commun**, 2015 Dec 14;6:10119.

9. Wang G, Rajpurohit SK, Delaspre F, Walker SL, White DT, Ceasrine A, Kuruvilla R, Li RJ, Shim JS, Liu JO, Parsons MJ, Mumm JS. First quantitative high-throughput screen in zebrafish identifies novel pathways for increasing pancreatic  $\beta$ -cell mass. 2015. **Elife** Jul 28;4.

10. Huang L, Xiao A, Choi SY, Kan Q, Zhou W, Chacon-Heszele MF, Ryu YK, McKenna S, Zuo X, Kuruvilla R, Lipschutz JH. Wnt5a is necessary for normal kidney development in zebrafish and mice. **Nephron Exp Nephrol**. 2014;128(1-2):80-8.

11. Borden P, Houtz J, Leach SD, and Kuruvilla R. Sympathetic innervation during development is necessary for pancreatic islet architecture and functional maturation. **Cell Rep** 2013 Jul 25;4(2):287-301.
12. Ryu YK, Collins SE, Ho HY, Zhao H\*, Kuruvilla R\*. An autocrine Wnt5a-Ror signaling loop mediates sympathetic target innervation. **Dev Biol** 2013 May 1;377(1):79-89. \*co-corresponding authors.
13. Lazo OM, Gonzalez A, Ascaño M, Kuruvilla R, Couve A, Bronfman FC. BDNF regulates Rab11-mediated recycling endosome dynamics to induce dendritic branching. **J Neurosci**. 2013. Apr 3;33(14):6112-22.
14. Chen SK, Chew KS, McNeill DS, Keeley PW, Ecker JL, Mao BQ, Pahlberg J, Kim B, Lee SC, Fox MA, Guido W, Wong KY, Sampath AP, Reese BE, Kuruvilla R\*, Hattar S\*. Apoptosis regulates ipRGC spacing necessary for rods and cones to drive circadian photoentrainment. **Neuron** 2013 Feb 6;77(3):503-15. \*co-corresponding authors.
15. Ho HY, Susman MW, Bikoff JB, Ryu YK, Jonas AM, Hu L, Kuruvilla R, Greenberg ME. A Wnt5a-Ror-Dishevelled signaling pathway that controls embryonic tissue morphogenesis. **Proc Natl Acad Sci U S A**. 2012 Mar 13;109(11):4044-51.
16. Bodmer B<sup>#</sup>, Ascaño M<sup>#</sup> and Kuruvilla R. Isoform-specific dephosphorylation of dynamin1 by calcineurin couples neurotrophin receptor endocytosis to axonal growth. **Neuron** 2011 Jun 23;70(6):1085-99. <sup>#</sup>Equal authors.
17. Armstrong A, Ryu Y-K, Chieco D and Kuruvilla R. Frizzled3 is required for neurogenesis and target innervation during sympathetic nervous system development. **J Neurosci**. 2011 Feb 16;31(7):2371-81.
18. Ascaño M, Richmond A, Borden P, and Kuruvilla R. Axonal targeting of Trk receptors via transcytosis regulates sensitivity to neurotrophin responses. **J Neurosci**. 2009 Sep 16;29(37):11674-85.
19. Bodmer B, Levine-Wilkinson S, Richmond A, Hirsh S and Kuruvilla R. Wnt5a mediates NGF-dependent axonal branching and growth in developing sympathetic neurons. **J Neurosci**. 2009 Jun 10;29(23):7569-81.

### **Reviews, Previews, and Book Chapters:**

1. Kuruvilla R. Why brown fat has a lot of nerve. **Nature**. 2019 May;569(7755):196-197. News and Views.
2. Scott-Solomon E and Kuruvilla R. Mechanisms of Neurotrophin Trafficking via Trk Receptors. Special Issue on “Membrane trafficking and cytoskeletal dynamics in neuronal function” **Molecular and Cellular Neuroscience**. Editors, Casper Hoogenraad, Harold MacGillavry. 2018 Mar 27. pii: S1044-7431(18)30014-9.
3. Yamashita N and Kuruvilla R. Neurotrophin signaling endosomes: biogenesis, regulation, and functions. **Curr Opin Neurobiol**, 2016, 39: 139-145
4. Houtz J and Kuruvilla R. VIP Pipes Up: Neuronal Signals Direct Tubulogenesis. **Dev Cell** 2014 Aug 25;30(4):361-2. Preview.

5. Ascaño M, Bodmer D, and Kuruvilla R. Endocytic trafficking of neurotrophins in neural development. ***Trends in Cell Biology*** 2012 May;22(5):266-73.

6. Bodmer D and Kuruvilla R. Trafficking of Trk receptors. **Protein Kinase Technologies**, book chapter, Humana Press, 2012.

7. Tzliil S and Kuruvilla R. 2011. Signaling in space and time: EMBO Conference Series on Systems Dynamics of Intracellular Communication. Meeting Report. ***EMBO Reports***, Sep 1;12(9):877-9.

In Preparation: Houtz J and Kuruvilla R. A different track-neurotrophin functions outside of the nervous system. ***BioEssays***. Invited review.

#### **Post-doctoral research:**

1. Zweifel LS, Kuruvilla R, and Ginty DD. Functions and mechanisms of retrograde neurotrophin signaling. ***Nat Rev Neurosci*** 2005 Aug;6(8):615-25.

2. Valdez G, Akmentin W, Philippidou P, Kuruvilla R, Ginty DD, Halegoua S. Pincher-mediated macroendocytosis underlies retrograde signaling by neurotrophin receptors. ***J Neurosci*** 2005 May 25;25(21):5236-47.

3. Chen X, Ye H, Kuruvilla R, Ramanan N, Scangos KW, Zhang C, Johnson NM, England PM, Shokat KM, Ginty DD. A chemical–genetic approach to studying neurotrophin signaling. ***Neuron*** 2005 Apr 7;46(1):13-21.

4. Kuruvilla R, Zweifel LS, Glebova NO, Lonze BE, Valdez G, Ye H, Ginty DD. A neurotrophin signaling cascade coordinates sympathetic neuron development through differential control of TrkA trafficking and retrograde signaling. ***Cell*** 2004 Jul 23;118(2):243-55. #Equal authors.

5. Ye H, Kuruvilla R, Zweifel LS, Ginty DD. Evidence in support of signaling endosome-based retrograde survival of sympathetic neurons. ***Neuron*** 2003 Jul 3;39(1):57-68. #Equal authors.

6. Kuruvilla R, Ye H, Ginty DD. Spatially and functionally distinct roles of the PI3-K effector pathway during NGF signaling in sympathetic neurons. ***Neuron*** 2000 Sep;27(3):499-512.

#### **Graduate research:**

1. Mîinea C, Kuruvilla R, Merrikh H, Eichberg J. Altered arachidonic acid biosynthesis and antioxidant protection mechanisms in Schwann cells grown in elevated glucose. ***J Neurochem***. 2002 Jun;81(6):1253-62.

2. Kuruvilla R, Eichberg J. Depletion of phospholipid arachidonoyl-containing molecular species in a human Schwann cell line grown in elevated glucose and their restoration by an aldose reductase inhibitor. ***J Neurochem***. 1998. Aug;71(2):775-83.

**External Funding:**

**Current Funding:**

- 2015-2019 National Institutes of Health, NIDDK  
**R01 DK108267 (PI)**  
Neurotrophins as new regulators of islet biology
- 2019-2023 National Institutes of Health, NINDS  
**R01 NS107342-01A1 (PI)**  
Neurotrophic factor trafficking and signaling in development and disease

**Pending:**

- National Institutes of Health, NINDS  
**R01 GRANT12773426 (PI)**  
Neurotrophin trafficking and signaling mechanisms in neuronal development  
Submitted January 2019
- National Institutes of Health, NINDS  
**R01 GRANT12793642 (PI)**  
Coupled axonal protein synthesis and lipidation in axon growth and homeostasis  
Submitted February 2019

**Completed:**

- 2014-2016 National Institutes of Health, NICHD  
R21 HD081125 (PI)  
Sympathetic innervation in pancreatic development and function
- 2011-2017 (NCE) National Institutes of Health, NINDS  
R01 NS073751 (PI)  
Neurotrophin mechanisms in neural development and disease
- 2011-2012 National Institutes of Health, NIDDK  
R21 DK090624  
Neurotrophins in pancreas development
- 2009-2011 National Institutes of Health, NIMH  
Supplement to R01 MH080738  
Diversity Supplement for Alissa Armstrong (Graduate Student)
- 2007-2012 National Institutes of Health, NIMH  
R01 MH080738 (PI)  
Crosstalk between neurotrophin and Wnt signaling
- 2005-2008 Whitehall Foundation Award (PI)  
Control of neuronal development by target-derived neurotrophins

**Presentations:**

**Meetings**

- 2020 Invited Speaker, Gordon Conference Cell Biology of the Neuron, Waterville Valley, NH
- 2020 Invited Speaker, Intrinsic Mechanisms of Size and Growth Regulation in Neurons, Weizmann Institute, Israel
- 2019 Invited Speaker, Pancreatic Diseases Gordon Conference, Newry, ME
- 2017 Invited Speaker, International Symposium on Neural Regeneration, Pacific Grove, CA
- 2017 Invited Speaker, Gordon Conference Neurotrophic Factors, Salve Regina, Providence, RI
- 2016 Invited Speaker, Keystone Symposia on Axons: From Cell Biology to Pathology, Santa Fe, New Mexico
- 2016 Invited Speaker, Workshop on Neural circuit development and plasticity, Utrecht, Netherlands
- 2015 Invited Speaker, Gordon Conference Neurotrophic Factors, Salve Regina, Providence, RI
- 2014 Invited Speaker, Gordon Conference Lysosomes and Endocytosis, Proctor Academy, Andover NH
- 2013 Invited Speaker, Keystone Symposium on Growing to Extremes: Cell Biology and Pathology of Axons, Tahoe City, California
- 2013 Invited Speaker, Gordon Conference Neurotrophic Factors, Salve Regina, Providence, RI
- 2012 Invited Speaker, American Society for Cell Biology, Endocytosis and Signal Transduction, Special Interests Group Meeting, San Francisco, California
- 2012 Invited Speaker, Symposium on Innervation, Paracrine, and Autocrine Signaling in the Islet, American Diabetes Association, Philadelphia
- 2012 Invited Speaker, FASEB Tyrosine Kinase Signaling in Cancer, Disease, & Development, Snowmass, Colorado
- 2011 Invited Speaker, Gordon Conference Neurotrophic Factors, Salve Regina, Providence, RI
- 2011 Invited Speaker, EMBO Spatial Meeting, Engelberg Switzerland
- 2011 Invited Speaker, 25<sup>th</sup> Annual Meeting of Chilean Cell Biology Society, Axon Biology Symposium, Pucon, Chile
- 2011 Invited Speaker, Mid-Atlantic Society for Developmental Biology Regional Conference, Philadelphia, PA
- 2011 Invited Speaker, American Society for Biochemistry and Molecular Biology, Signaling from New and "Arrestin" Sites Symposium, Washington DC
- 2010 Invited Speaker, 40<sup>th</sup> Annual Society for Neuroscience, Minisymposium on Axon Branching, San Diego, CA
- 2009 Speaker, Gordon Conference Neurotrophic Factors, Salve-Regina College, Providence, RI, abstract selected for "Hot Topics" Talks
- 2009 Speaker, Mid-Atlantic Society for Developmental Biology Regional Conference, Baltimore, MD,
- 2009 Speaker, EMBO/FEBS workshop on Systems Dynamics of Intracellular Communication-Overcoming Distance in Signalling Networks, Israel
- 2008 Invited Speaker, 10<sup>th</sup> Annual JHU/NIH Membrane Trafficking Workshop, Bethesda, MD
- 2007 Speaker, EMBO/FEBS workshop on Systems Dynamics of Intracellular Communication-Overcoming Distance in Signalling Networks, Israel
- 2006 Invited Speaker, Mid-Atlantic Society for Developmental Biology, Baltimore, MD

#### **Meeting/Session Organizer:**

- 2021 Chair, Gordon Conference Neurotrophic Factors
- 2020 Co-organizer, Power Hour, Gordon Conference Cell Biology of the Neuron, Waterville Valley, NH
- 2019 Vice-Chair, Gordon Conference Neurotrophic Factors
- 2019 Co-organizer, Power Hour, Gordon Conference Pancreatic Diseases, Newry, ME
- 2016 Co-Chair, Keystone Symposia on Axons: From Cell Biology to Pathology, Santa Fe, New Mexico
- 2011 Session Chair, EMBO Spatial Meeting, Engelberg, Switzerland

#### **Departmental Seminars:**

2019 Department of Cell Biology and Physiology, UNC Chapel Hill, NC  
2019 Hong Kong Baptist University School of Medicine  
2019 Institute for Diabetes, Obesity and Metabolism, Univ. of Pennsylvania, Philadelphia, PA  
2018 Burke Medical Research Institute, NY  
2017 Department of Cell Biology, University of California, Davis, CA  
2016 Department of Neuroscience, Brown University, Providence, RI  
2015 Department of Neuroscience, University of Texas Southwestern Medical Center, Dallas, TX  
2015 Department of Neuroscience, Case Western Reserve University, Cleveland, OH  
2015 Molecular Biology, Cell Biology, and Biochemistry (MCB), Brown University, Providence, RI  
2015 Department of Anatomy and Neurobiology, Washington University, St. Louis, MO  
2015 UVA Neuroscience Program, University of Virginia, Charlottesville, VA  
2015 Department of Chemistry and Biochemistry, University of Toledo, Ohio, OH  
2014 Mahoney Institute for Neurosciences, University of Pennsylvania, Philadelphia, PA  
2013 Rajiv Gandhi Center for Biotechnology, Trivandrum, India  
2013 Department of Biology, University of Victoria British Columbia, Canada  
2013 Department of Pharmacology, Florida State University, Tallahassee, FL  
2013 Institute for Neuroscience, George Washington University, MD  
2013 Department of Neurology, Temple University School of Medicine, Philadelphia, PA  
2012 Department of Pediatrics, Divisions of Endocrinology and Metabolism, The Johns Hopkins University School of Medicine, MD  
2012 Department of Biology and Biochemistry, University of Houston, TX  
2012 Division of Developmental Biology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH  
2011 Montreal Neurological Institute, McGill University, Montreal, Canada  
2009 Department of Physiology, University of Maryland School of Medicine, MD  
2008 Laboratory of Cell Biology, NIH, Bethesda, MD  
2008 Department of Anatomy and Neurobiology, Virginia Commonwealth University Medical Center, Richmond, VA  
2006 CROET, Oregon Health and Science University, Portland, OR  
2006 Department of Cell Biology, Johns Hopkins School of Medicine, Baltimore, MD  
2006 Department of Biology, College of William and Mary, Williamsburg, VA

### **Scientific Service:**

#### **Grant Reviews:**

Member, site visit for National Institute of Child Health and Human Development (NICHD) Division of Intramural Research.  
Member, Neurodifferentiation, Plasticity, Regeneration and Rhythmicity [NDPR] study section, 2013-17  
Member, F32/K99 Review Panel, ZNS1 SRB-L (09), NINDS, 2017  
Member, F32/K99 Review Panel, ZDK1 GRB-2, Diabetes, Endocrinology and Metabolism, NIDDK, 2017  
Ad-hoc grant reviews for Pilot & Feasibility Grant Programs, Diabetes Research Center, UPenn School of Medicine  
Ad hoc grant reviews for US-Israel Binational Science Foundation, 2015-16  
Ad-hoc member, Neurodifferentiation, Plasticity, Regeneration and Rhythmicity [NDPR] study section, 2012  
Member, Neural Systems NSF Study Section 2010  
Ad hoc grant reviews for ANR, French National Research Agency, 2012  
Ad hoc grant reviews for Fondecyt, Chile, 2010

#### **Journal Reviews:**

*Nature, Science, Nature Neuroscience, eLife, Dev Cell, PNAS, Journal of Cell Biology, Cell Reports, PLoS Biology, EMBO J, Journal of Neuroscience, Molecular and Cellular Biology, Traffic*

**Faculty of 1000 Member, Neuronal Signaling****Promotion-related service:**

Tenure review committee for Dr. Brock Grill, Scripps Institute, FL

Wrote letters for promotion to the rank of Associate Professor with tenure for Dr. Ali Guler (UVA Charlottesville) and Dr. Henry Ho (UC Davis)

Wrote letters for promotion to the rank of full Professor for Dr. Alvaro Sagasti (UCLA) and Dr. Francisca Bronfman (Catholic University of Chile)

**Trainees:****Post-doctoral fellows:**

2016-present	Eugene Lin		
2014-2017	Naoya Yamashita	Current Position	Assistant Professor, Juntendo University, Japan
2005-2011	Maria Ascano	Current Position	Director, Decision Resources Consulting Boston

**Ph.D. graduate students:**

2016-present	Nelmari Ruiz Otero*		
2016-present	Aurelia Mapps*		
2016-present	Blaine Connor*		
2014-present	Erica Boehm		
2013-present	Emily Scott-Solomon		
2014-2019	Alexis Ceasrine	Current Position	Post-doctoral fellow, Duke Univ, NC
2011-2017	Chantal Bodkin-Clarke	Current Position	Biology Teacher, Lake Mary Prep School, FL
2011-2016	Jessica Houtz	Current Position	Post-doctoral fellow, Scripps Institute, FL
2010-2016	Chih-Ming Chen	Current Position	Post-doctoral fellow, JHMI, Baltimore, MD
2010-2015	Ami Patel	Current Position	Post-doctoral fellow, Northwestern, IL
2008-2013	Philip Borden	Current Position	Post-doctoral fellow, HHMI, Janelia Farms
2008-2013	Yun Kyoung Ryu	Current Position	Medical resident, Columbia, NY
2006-2011	Alissa Armstrong*	Current Position	Assistant Professor, Univ. of South Carolina
2006-2011	Daniel Bodmer	Current Position	Medical resident, Mt. Sinai, New York

**Undergraduates:**

2018-	Zachary Neiman
2018-	Reece Carter
2016-present	Ajay Mehta
2016-present	David Lumelsky
2016-present	Alisa Vidwans
2014-2016	Maria Hazbon*
2016-2017	Niharika Malviya
2016	Jessica Lopez* (NSF BioREU summer student)
2015-2016	Cecilia Freeman
2015-2016	Chinar Berry
2015	Brian Kelley (NSF BioREU summer student)
2015	Ryan Zapata* (NSF BioREU summer student)
2014	Ryan Zapata (NSF BioREU summer student)
2011	Caitlin Corey Anderson (NSF BioREU summer student)
2010	Micah Shelton* (NSF BioREU summer student)
2009	Beatriz Cruz Alvarez* (NSF BioREU summer student)
2009-2012	Madeleine Greil*
2009-2011	Renee KingYu Lo



2009-2010 Sumon Chattopadhyay  
2008 Chioma Ebiringa\* (NSF BioREU summer student)  
2007-2009 Deanna Chieco  
2005-2007 Pavan Dalal

**High School Students:**

2017 Nhu Dang  
2016 Carlea Williams-Lock\*  
2016 Radhika Iyer  
2009-2010 Ciarra Bell\*  
2008-2009 Ashwin Kadambi  
2007-2008 Eryn Gordon\*

\*under-represented minority (URM) trainees

**Selected Talks by Lab Members:**

Chantal Bodkin-Clarke, Hot Topics session, Gordon Conference, Neurotrophic Factors, 2017  
Alexis Ceasrine, CMDB Graduate Program Retreat, 2017  
Ami Patel, CMDB Retreat, 2015  
Alissa Richmond Armstrong, Invited speaker, College of William and Mary, Williamsburg, VA, 2011  
Maria Ascano, best "hot topic" talk, Gordon Conference, Neurotrophic Factors, 2007  
Alissa Richmond Armstrong, Annual Meeting of the Society for the Advancement of Chicanos and Native Americans in Science, Tampa, FL, 2006

**Grants/Awards for Lab Members:**

Blaine Connor, JHU inaugural class of the Edward A. Bouchet Graduate honor society  
Eugene Lin, NRSA post-doctoral fellowship (F32)  
Naoya Yamashita, post-doctoral fellowships from Japan Society for the Promotion of Science, Naito Foundation, and Kanae Foundation  
Aurelia Mapps, NSF Graduate Research Fellowship, 2016-2018  
Aurelia Mapps, JHU nominee for 2018 HHMI Gilliam fellowship  
Jessica Houtz, Saul Roseman Award for best thesis, CMDB Graduate Program, 2017  
Alexis Ceasrine, Scholarship to attend Keystone Symposia on Sex and Gender Factors Affecting Metabolic Homeostasis, Diabetes and Obesity, Tahoe City, 2017  
Erica Boehm, best poster award, CMDB retreat, 2017  
Blaine Connor, Victor Corces Teaching Award for Cell Biology, 2017  
Blaine Connor, travel award, American Society for Biochemistry and Molecular Biology, Chicago, 2017  
Blaine Connor, best poster prize, CMDB Retreat, 2016  
Alexis Ceasrine, best poster prize, CMDB Retreat, 2016  
Alexis Ceasrine, Victor Corces Teaching Award for Cell Biology, 2015  
Jessica Houtz, best poster prize, CMDB Retreat, 2014, 2015  
Emily Scott-Solomon, Victor Corces Teaching Award for Developmental Biology, 2014  
Alissa Armstrong, Society for Neuroscience Scholar award  
Daniel Bodmer, best poster prize, Gordon Conference, Neural Development, 2008  
Maria Ascano, best poster prize, CMDB retreat, 2010  
Philip Borden, best poster prize, CMDB Retreat, 2009  
Deanna Chieco, Provost's Undergraduate Research (PURA) award  
Pavan Dalal, HHMI Summer Research Fellowship

**Teaching and University Service**

**Recognition for University Service:**

2007, 2008 Finalist, Johns Hopkins Alumni Association Excellence in Teaching Awards

### Teaching:

2018- Developed a new Advanced Cell Biology (020.686) class for 1<sup>st</sup> year CMDB graduate students; co-teaching with Katie Tiff and Yumi Kim

2008-present: Cell Biology (020.306)  
Undergraduate class of approximately 300 students  
Co-teach with Andy Hoyt, Katie Tiff, and Emily Fisher  
I teach 1/3 of this 3-credit class

2006-present Signaling in Development and Disease (020.317)  
Course Coordinator  
Graduate/undergraduate class of approximately 35-40 students  
I developed and teach this entire 3-credit upper level class

2007-present Advanced Cell Biology (020.686)  
Graduate/undergraduate class of approximately 25-35 students  
I teach 2 out of 33 lectures in this 3-credit class

### Support of Graduate Students

2016-present Director, CMDB Graduate Program  
2014-2016 Deputy Director, CMDB Graduate Program  
2006-present Mentor for 14 Graduate Student Thesis Research (see Trainees)  
2006-present Member on >40 Graduate Board Oral and Thesis Advisory Committees in Department of Biology (Arts and Sciences), Neuroscience (School of Medicine), Biomedical Engineering (School of Medicine), Human Genetics (School of Medicine)  
2005-present Mentor for Graduate Student Rotations (2-4 per year)

### Support of Undergraduate Students

2005-present Research mentor for 12 Johns Hopkins undergraduate students (see Trainees)  
2006-present Hosted and trained 7 non-Hopkins undergraduate students for the NSF-BioREU summer research program (see Trainees)  
2006-present Faculty advisor for approximately 25 Hopkins undergraduates every year, where I advise them on their course schedules, careers, and write recommendation letters

### Departmental Committees/Activities:

Member, Cell Biology faculty search committee, JHU, October 2018  
Co-Chair, Cell Biology faculty search committee, JHU, October 2017  
Director, CMDB Graduate Program, JHU, June 2016-present  
Deputy Director, CMDB Graduate Program, JHU June 2014-May 2016  
Mentor to junior faculty; Andrew Gordus and Robert Johnston  
Chair, Cell Biology faculty search committee, JHU, October 2015  
Chair of Seminar Committee, 2010-present  
CMDB Graduate Program Admissions Committee 2008, 2009, 2013, 2014

Faculty Search Committee, Biology 2009, 2012

CMDB faculty representative at ABRCMS Minority Student conference, Phoenix, AZ, 2009

CMDB faculty representative at ABRCMS Minority Student conference, Austin, TX, 2007

Regular host of monthly department colloquium and annual graduate student recruitment dinners

**University Committees/Activities:**

Faculty presentations, Visiting Penn State Millennium and UMBC Meyerhoff Scholars

Research conduct investigation committee, Johns Hopkins School of Medicine

Convenor, launch committee to provide guidance to new junior faculty at Johns Hopkins University

Integrated Imaging Center Oversight committee

JHU committee for recommendation policies for electronic dissertations

Baltimore Scholars Program, JHU

Neuroscience Training Grant, Solomon Snyder Department of Neuroscience, JHMI

Interdepartmental Training Program in Cellular and Molecular Endocrinology, JHMI

**Community service:**

Invited Speaker, St. Paul's School for Girls, Cockeysville, MD, 2017

Invited Speaker, Women Serious about Science Program at Baltimore Polytechnic Institute, 2007, 2006

Urban high school outreach program with Baltimore Polytechnic Institute, hosted high school students in my lab, 2007-2010