

ANTHONY BROWN

CURRICULUM VITAE

March 2026

Department of Neuroscience
The Ohio State University
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DEGREES

Ph.D.	1987	King's College, University of London
B.Sc. (Hons.)	1982	King's College, University of London

PROFESSIONAL HISTORY

2015-present	Co-Director, Graduate program in Molecular, Cellular and Developmental Biology, The Ohio State University, Columbus, OH
2010-present	Professor, Department of Neuroscience, The Ohio State University, Columbus, OH
2001-2010	Associate Professor, Department of Neuroscience, The Ohio State University, Columbus, OH
1999-2001	Associate Professor, Department of Biological Sciences, Ohio University, Athens, OH
1993-1999	Assistant Professor, Department of Biological Sciences, Ohio University, Athens, OH
1990-1993	Post-Doctoral Research Associate, Department of Anatomy and Cell Biology, Temple University School of Medicine, Philadelphia, PA
1987-1990	Post-Doctoral Research Associate, Bio-architectonics Center, School of Medicine, Case Western Reserve University, Cleveland, OH
1982-1987	Ph.D. Student, Medical Research Council Research Studentship, Department of Biophysics, King's College, University of London, UK

RESEARCH FUNDING

Active

5/15/25-4/30/30	PI	NIH/NINDS Research Project Grant (R01 NS140664) <i>Charcot-Marie-Tooth Disease type 2E: Mechanism and Therapy</i> \$2,459,430 (total direct and indirect costs) Anthony Brown, PI (35% effort) Arthur Burghes, Co-I (3% effort)
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Pending

- 10/1/26-9/30/30 Co-PI US-Israel Binational Science Foundation(BSF)
 Application number 2025201
A cross-disciplinary collaboration to reveal the effect of pathogenic mutations on neurofilaments
 \$299,893 (total direct and indirect costs)
 Anthony Brown, Ohio State University Co-PI, 15% effort (no salary): \$149,871 (total direct and indirect costs)
 Roy Beck, Tel Aviv University, Co-PI, 15% effort (no salary): \$150,022 (total direct and indirect costs)
Status: Submitted 11/25/25
- 4/1/25-3/31/30 PI NIH/NINDS Research Project Grant (R01 NS142265)
Dynamics of Axonal Neurofilaments
 \$3,221,337 (total direct and indirect costs)
 Anthony Brown, PI (35% effort)
Status: Scored 39 percentile
- 4/1/26-3/31/31 co-I NIH/NINDS R01
 Comert Kural, Dept Physics, PI
 \$3,414,869.00 (total direct and indirect costs)
Restoring Dense Actin and Neurofilament Structures in Neurodegeneration Models Leveraging Time-lapse Information
 Role, Co-I (8% effort; 1 month in Years 1-5)
Status: Submitted 7/18/25
- 4/1/26-3/31/31 co-I NIH/NIA R01
 Comert Kural, Dept Physics, PI
 \$3,414,869.00 (total direct and indirect costs)
Deep-learning-assisted Hyper-resolution Imaging of Microtubule Dynamics in Tauopathy Models
 Role, Co-I (8% effort; 1 month in Years 4-5)
Status: Submitted 6/5/25

Previous

- 9/15/21-2/29/24 PI NIH Research Project Grant (R21 NS125468)
Restoring Neurofilaments to Axons in a Mouse Model of CMT2E
 \$433,125 (total direct and indirect costs)
 Anthony Brown, PI (20% effort)
- 5/1/17-4/30/23 PI NSF Research Project Grant (IOS 1656784/1656765)
Collaborative Research: Dynamic Regulation of Axonal Morphology by Neurofilament Transport
 Anthony Brown, PI (Ohio State University, IOS 1656784, 25% effort): \$726,000 (total direct and indirect costs)
 Jung, PI (Ohio University, IOS 1656785, 25% effort): \$345,000 (total direct and indirect costs)

- 8/1/20-12/31/22 PI Charcot-Marie-Tooth Association
Establishing Gene Therapy Strategies for CMT2E
\$256,036 (total direct and indirect costs)
Anthony Brown, PI (10% effort)
- 9/30/17-8/31/21 PI NIH Center Core Grant (P30 NS104177)
Ohio State University Neuroscience Center Core
\$1,840,841 (total direct and indirect costs)
Anthony Brown, PI and Director of Imaging Core (10% effort)
- 6/1/19-5/31/20 PI NIH Shared Instrumentation Grant (S10 OD026842)
Zeiss LSM 800 confocal microscope with Airyscan
\$369,485 (direct cost)
Anthony Brown, PI
- 7/1/14-6/30/20 PI NIH Research Project Grant (R01 NS038526, Years 16-20)
Axonal Transport of Neurofilaments
\$1,684,375 (total direct and indirect costs)
Anthony Brown, PI (35% effort)
- 12/1/10-11/30/17 co-PI Beattie (PI)
NIH Center Core Grant (P30 NS045758, Years 7-14)
Ohio State University Neuroscience Center Core
\$2,432,516 (total direct and indirect costs)
Anthony Brown, Director of Imaging Core (5% effort)
- 9/1/12-11/30/16 PI NSF Research Project Grant (IOS 1146809/1146789)
Collaborative Research: Neurofilament Transport Kinetics and Axonal Morphology
Anthony Brown, PI (Ohio State University, IOS 1146809, 25% effort): \$629,245 (total direct and indirect costs)
Peter Jung, PI (Ohio University, IOS 1146789, 25% effort): \$295,989 (total direct and indirect costs)
- 1/1/09-12/31/14 PI NIH Research Project Grant (R01 NS038526, Years 11-15)
Assembly and Axonal Transport of Neurofilaments
\$1,640,000 (total direct and indirect costs)
Anthony Brown, PI (32% effort)
- 5/1/12-4/30/13 PI NIH Shared Instrumentation Grant (S10 OD010383)
A Spinning Disk Confocal Microscope for Live-Cell Imaging
\$599,823 (direct cost)
Anthony Brown, PI
- 5/25/11-8/31/12 PI NSF REU Supplement to Grant IOS 0818653
Research Employment for Undergraduates Supplement
\$5,470 (total direct and indirect costs)
Anthony Brown, undergraduate research mentor
- 6/1/09-5/31/12 co-PI Winter (PI)
NSF Research Project Grant (CMMI-0900377)

Fluorescent-Magnetic Nanomanipulators for Cytoskeletal Mechanical Investigations

\$313,433 (total direct and indirect costs)

Anthony Brown, co-PI (5% effort)

- 9/1/08-8/31/12 PI NSF Research Project Grant (IOS 0818653/0818412)
Collaborative Research: Role of Neurofilament Transport in the Growth of Axonal Caliber
Brown, PI (Ohio State University, IOS 0818653, 20% effort):
\$306,500 (total direct and indirect costs)
Jung, PI (Ohio University, IOS 0818412, 20% effort):
\$133,500 (total direct and indirect costs)
Anthony Brown, PI (20% effort)
- 6/22/10-8/31/11 PI NSF REU Supplement to Grant IOS 0818653
Research Employment for Undergraduates Supplement
\$5,554 total direct and indirect costs)
Anthony Brown, undergraduate research mentor
- 9/1/09-11/30/10 co-PI Beattie (PI)
NIH Center Core Grant (P30 NS045758 S1, Year 6)
Ohio State Neuroscience Center Core (ARRA Supplement)
\$205,875 (total direct and indirect costs)
Anthony Brown, Director of Imaging Core (5% effort)
- 4/28/09-8/31/10 PI NSF REU Supplement to Grant IOS 0818653
Research Employment for Undergraduates Supplement
\$5,991 (total direct and indirect costs)
Anthony Brown, undergraduate research mentor
- 8/15/04-7/31/09 co-PI Beattie (PI)
NIH Center Core Grant (P30 NS045758, Years 1-5)
Ohio State Neuroscience Center Core
\$3,500,000 (total direct and indirect costs)
Anthony Brown, Director of Imaging Core (5% effort)
- 4/1/03-3/31/09 PI NIH Research Project Grant (R01 NS38526, Years 5-10)
Axonal Transport of Neurofilaments
\$1,568,283 (total direct and indirect costs)
Anthony Brown, PI (50% effort)
- 4/1/99-3/31/03 PI NIH Research Project Grant (R01 NS38526, Years 1-4)
Assembly and Axonal Transport of Neurofilament Proteins
\$664,497 (total direct and indirect costs)
Anthony Brown, PI (63% effort)
- 5/1/96-4/30/99 PI NIH Academic Research Enhancement Award (R15 NS35344)
Neurofilament Proteins: Assembly and Axonal Transport
\$104,369 (total direct and indirect costs)
Anthony Brown, PI (63% effort)

PUBLICATIONS (Total = 64)

Nowier, R.M., Johnson, C.M., Fenn, J.D., **Brown, A.** & Jung, P. Neurofilament transport kinetics can be explained by the activity of small numbers of independent kinesin and dynein motors. *Submitted to Biophysical Journal*

Uchida, A., Peng, J. & **Brown, A.** (2023). Regulation of neurofilament length and transport by a dynamic cycle of phosphorylation-dependent polymer severing and annealing. *Molecular Biology of the Cell*, 34:ar68, 1–15 [[PMID: 36989035](#)]

Fenn, J.D., Li, Y., Julien, J.-P., Jung, P. & **Brown, A.** (2023). The mobility of neurofilaments in mature myelinated axons of adult mice. *eNeuro*, 10:ENEURO.0029-23.2023 [[PMID: 36882311](#)]

Nowier, R.M., Friedman, A., **Brown, A.** & Jung, P. (2023). The role of neurofilament transport in the radial growth of myelinated axons. *Molecular Biology of the Cell*, 34:ar58, 1–14 [[PMID: 36811626](#)]

Brown, A., Maldonado, A. & Trevorrow, P. (2022). An interview with Anthony Brown, Ohio State University, Columbus, OH, USA. *Cytoskeleton*, 79:75-77 [[PMID: 36416601](#)]

Boyer, N.P., Julien, J.-P., Jung, P. & **Brown, A.** (2022). Neurofilament transport is bidirectional *in vivo*. *eNeuro*, 9:ENEURO.0138-22.2022 [[PMID: 35896389](#)]

Stone, E.J., Kolb, S.J. & **Brown, A.** (2021). A review and analysis of the clinical literature on Charcot-Marie-Tooth disease caused by mutations in neurofilament protein L. *Cytoskeleton*, 78:97-110 [[PMID: 33993654](#)]

Boyer, N.P., Azcorra, M., Jung, P. & **Brown, A.** (2020). Imaging and analysis of neurofilament transport in excised mouse tibial nerve. *Journal of Visualized Experiments*, 162:e61264 [[PMID: 32925891](#)]

Johnson, C., Fenn, J.D., **Brown, A.** & Jung, P. (2020). Dynamic catch-bonding generates the large stall forces of cytoplasmic dynein. *Physical Biology*, 17:046004 [[PMID: 32369788](#)]

Ciocanel, M.V., Jung, P. & **Brown, A.** (2020). A mechanism for neurofilament transport acceleration through nodes of Ranvier. *Molecular Biology of the Cell*, 31:640-654 [[PMID: 32023144](#)]

Stone, E.J., Uchida, A. & **Brown, A.** (2019). Charcot-Marie-Tooth disease type 2E/1F mutant neurofilament proteins assemble into neurofilaments. *Cytoskeleton*, 76:423-439 [[PMID: 31574566](#)]

Walker, C.L., Uchida, A., Li, Y., Trivedi, N., Fenn, J.D., Monsma, P.C., Lariviere, R.C., Julien, J.P., Jung, P. & **Brown, A.** (2019). Local acceleration of neurofilament transport at nodes of Ranvier. *Journal of Neuroscience*, 39:663-677 [[PMID: 30541916](#)]

Lai, X., **Brown, A.** & Xue, C. (2018). A stochastic model that explains axonal organelle pileups induced by a reduction of molecular motors. *Journal of the Royal Society Interface*, 15: 20180430 [[PMID: 30487237](#)]

Fenn, J.D., Monsma, P.C. & **Brown, A.** (2018). Axonal neurofilaments exhibit frequent and complex folding behaviors. Cytoskeleton, 75:258-280 [PMID: 29683261]

Fenn, J.D., Johnson, C.M., Peng, J., Jung, P. & **Brown, A.** (2018). Kymograph analysis with high temporal resolution reveals new features of neurofilament transport kinetics. Cytoskeleton, 75:22-41 [PMID: 28926211]

Baas, P.W., Bamburg, J.R., **Brown, A.** & Gonzalez-Billault, C. (2016). An EMBO Workshop on Emerging Concepts of the Neuronal Cytoskeleton: A unique venue to discuss recent advances in cellular and molecular aspects of cytoskeleton function in nerve cells. Cytoskeleton, 73:422-423 [PMID: 27612224]

Uchida, A., Monsma, P.C., Fenn, J.D. & **Brown, A.** (2016). Live-cell imaging of neurofilament transport in cultured neurons. Methods in Cell Biology, 131:21-90 [PMID: 26794508]

Green, J.A., Schmid, C.L., Bley, E., Monsma, P.C., **Brown, A.**, Bohn, L.M. & Mykytyn, K. (2016). Recruitment of β -arrestin into neuronal cilia modulates somatostatin receptor subtype 3 ciliary localization. Molecular and Cellular Biology, 36:223-235 [PMID: 26503786]

Brown, A. (2015). Axonal transport. In "Neuroscience in the 21st century: from basic to clinical", 2nd edition, ed. Donald W. Pfaff & Nora D. Volkow, Springer Publishing, New York, pp. 333-379

Johnson, C., Holmes, W., **Brown, A.** & Jung, P. (2015). Minimizing the caliber of myelinated axons by means of nodal constrictions. Journal of Neurophysiology, 114:1874-1884 [PMID: 26224772]

Xue, C., Shtylla, B. & **Brown, A.** (2015). A stochastic multiscale model that explains the segregation of axonal microtubules and neurofilaments in neurological diseases. PLoS Computational Biology, 11:e1004406 [PMID: 26285012]

Brown, A. (2014). Slow axonal transport. In "Reference Module in Biomedical Research", ed. Michael Caplan, Elsevier

Monsma, P.C., Li, Y., Fenn, J.D., Jung, P. & **Brown, A.** (2014). Local regulation of neurofilament transport by myelinating cells. Journal of Neuroscience, 34:2979-2988 [PMID: 24553938]

Koemeter-Cox, A., Sherwood, T.W., Green, J.A., Steiner, R.A., Barbari, N.F., Yoder, B.K., Kauffman, A.S., Monsma, P.C., **Brown, A.**, Askwith, C.C. & Mykytyn, K. (2014). Primary cilia enhance kisspeptin receptor signaling on gonadotropin-releasing hormone neurons. Proceedings of the National Academy of Sciences USA, 111:10335-10340 [PMID: 24982149]

Li, Y., **Brown, A.** & Jung, P. (2014). Deciphering the axonal transport kinetics of neurofilaments using the fluorescence photoactivation pulse-escape method. Physical Biology, 11:026001 [PMID: 24632540]

Uchida, A., Çolakoğlu, G., Wang, L., Monsma, P.C. & **Brown, A.** (2013). Severing and end-to-end annealing of neurofilaments in neurons. Proceedings of the National Academy of Sciences USA, 110: E2696-E2705 [[PMID: 23821747](#)]

Brown, A. (2013). Axonal transport. In "Neuroscience in the 21st century: from basic to clinical", 1st edition, ed. Donald W. Pfaff, Springer Publishing, New York, pp. 255-308

Brown, A. & Jung, P. (2013). A critical reevaluation of the stationary axonal cytoskeleton hypothesis. Cytoskeleton, 70:1-11 [[PMID: 23027591](#)]

Monsma, P.C. & **Brown, A.** (2012). FluoroMyelinTM Red is a bright, photostable and non-toxic fluorescent stain for live imaging of myelin. Journal of Neuroscience Methods, 209:344-350 [[PMID: 22743799](#)]

Taylor, N.J., Wang, L. & **Brown, A.** (2012). Neurofilaments are flexible polymers that often fold and unfold, but they move in a fully extended configuration. Cytoskeleton, 69:535-544 [[PMID: 22693112](#)]

Li, Y., Jung, P. & **Brown, A.** (2012). Axonal transport of neurofilaments: a single population of intermittently moving polymers. Journal of Neuroscience, 32:746-758 [[PMID: 22238110](#)]

Yuan, L., Zheng, Y.F., Zhu, J., Wang, L. & **Brown, A.** (2012). Object tracking with particle filtering in fluorescence microscopy images: application to the motion of neurofilaments in axons. IEEE Transactions on Medical Imaging, 31:117-130 [[PMID: 21859599](#)]

Wang, L. & **Brown, A.** (2010). A hereditary spastic paraplegia mutation in kinesin-1A/KIF5A disrupts neurofilament transport. Molecular Neurodegeneration, 5:52 [[PMID: 21087519](#)]

Uchida, A., Alami, N.H. & **Brown, A.** (2009). Tight functional coupling of kinesin-1A and dynein motors in the bidirectional transport of neurofilaments. Molecular Biology of the Cell, 20:4997-5006 [[PMID: 19812246](#)]

Jung, P. & **Brown, A.** (2009). Modeling the slowing of neurofilament transport along mouse sciatic nerve. Physical Biology, 6:046002 [[PMID: 19700813](#)]

Çolakoğlu, G. & **Brown, A.** (2009). Intermediate filaments exchange subunits along their length and elongate by end-to-end annealing. Journal of Cell Biology, 185:769-777 [[PMID: 19468066](#)]

Alami, N.H., Jung, P. & **Brown, A.** (2009). Myosin Va increases the efficiency of neurofilament transport by decreasing the duration of long-term pauses. Journal of Neuroscience, 29:6625-6634 [[PMID: 19458233](#)]

Brown, A. (2009). Slow axonal transport. In "Encyclopedia of Neuroscience", ed. Larry R. Squire, Academic Press, Oxford, vol. 9, pp. 1-9

Yan, Y., Jensen, K. & **Brown, A.** (2007). The polypeptide composition of moving and stationary neurofilaments in cultured sympathetic neurons. Cell Motility and the Cytoskeleton, 64:299-309 [[PMID: 17285620](#)]

Trivedi, N., Jung, P. & **Brown, A.** (2007). Neurofilaments switch between distinct mobile and stationary states during their transport along axons. Journal of Neuroscience, 27:507-516 [[PMID: 17234583](#)]

Brown, A., Wang, L. & Jung, P. (2005). Stochastic simulation of neurofilament transport in axons: the “stop and go” hypothesis. Molecular Biology of the Cell, 16:4243-4255 [[PMID: 16000374](#)]

Craciun, G., **Brown, A.** & Friedman, A. (2005). A dynamical system model of neurofilament transport in axons. Journal of Theoretical Biology, 237:316-322 [[PMID: 15975597](#)]

Yan, Y. & **Brown, A.** (2005). Neurofilament polymer transport in axons. Journal of Neuroscience, 25:7014-7021 [[PMID: 16049177](#)]

Uchida, A. & **Brown, A.** (2004). Arrival, reversal and departure of neurofilaments at the tips of growing axons. Molecular Biology of the Cell, 15:4215-4225 [[PMID: 15215317](#)]

Brown, A. (2003). Live-cell imaging of slow axonal transport in cultured neurons. Methods in Cell Biology, 71:305-323 [[PMID: 12884696](#)]

Brown, A. (2003). Axonal transport of membranous and nonmembranous cargoes: a unified perspective. Journal of Cell Biology, 160:817-821 [[PMID: 12642609](#)]

Wang, L. & **Brown, A.** (2002). Rapid movement of microtubules in axons. Current Biology, 12:1496-1501 [[PMID: 12225664](#)]

Wang, L. & **Brown, A.** (2001). Rapid intermittent movement of axonal neurofilaments observed by fluorescence photobleaching. Molecular Biology of the Cell, 12:3257-3267 [[PMID: 11598207](#)]

Brown, A. (2000). Slow axonal transport: stop and go traffic in the axon. Nature Reviews Molecular Cell Biology, 1:153-156 [[PMID: 11253369](#)]

Wang, L., Ho, C.-L., Sun, D., Liem, R.K.H. & **Brown, A.** (2000). Rapid movement of axonal neurofilaments interrupted by prolonged pauses. Nature Cell Biology, 2:137-141 [[PMID: 10707083](#)]

Koehnle, T.J. & **Brown, A.** (1999). Slow axonal transport of neurofilament protein in cultured neurons. Journal of Cell Biology, 144:447-458 [[PMID: 9971740](#)]

Brown, A. (1998). Contiguous phosphorylated and non-phosphorylated domains along axonal neurofilaments. Journal of Cell Science, 111:455-467 [[PMID: 9443895](#)]

Brown, A. (1997). Visualization of single neurofilaments by immunofluorescence microscopy of splayed axonal cytoskeletons. Cell Motility and the Cytoskeleton, 38:133-145 [[PMID: 9331218](#)]

Baas, P.W. & **Brown, A.** (1997). Slow axonal transport: the polymer transport model. Trends in Cell Biology, 7:380-384 [[PMID: 17708985](#)]

Brown, A. & Lasek, R.J. (1995). Polylysine cross-links axoplasmic neurofilaments into tight bundles. Cell Motility and the Cytoskeleton, 31:9-21 [PMID: 7553904]

Brown, A. & Lasek, R.J. (1993). Neurofilaments move apart freely when released from the circumferential constraint of the axonal plasma membrane. Cell Motility and the Cytoskeleton, 26:313-324 [PMID: 8299147]

Black, M.M. & **Brown, A.** (1993). Sites of microtubule assembly in growing axons. *In* Neuronal Cytoskeleton: Morphogenesis, Transport and Synaptic Transmission (Hirokawa, N., ed.), Japan Scientific Societies Press, CRC Press, 171-182

Baas, P.W., Ahmad, F.J., Pienkowski, T.P., **Brown, A.** & Black, M.M. (1993). Sites of microtubule stabilization for the axon. Journal of Neuroscience, 13:2177-2185 [PMID: 8478694]

Brown, A., Li, Y., Slaughter, T. & Black, M.M. (1993). Composite microtubules of the axon: quantitative analysis of tyrosinated and acetylated tubulin along individual axonal microtubules. Journal of Cell Science, 104:339-342 [PMID: 8505364]

Brown, A., Slaughter, T. & Black, M.M. (1992). Newly assembled microtubules are concentrated in the proximal and distal regions of growing axons. Journal of Cell Biology, 119:867-882 [PMID: 1429841]

Baas, P.W., Slaughter, T.S., **Brown, A.** & Black, M.M. (1991). Microtubule dynamics in axons and dendrites. Journal of Neuroscience Research, 30:134-153 [PMID: 1795398]

Sahenk, Z. & **Brown, A.** (1991). Weak-base amines inhibit the anterograde-to-retrograde conversion of axonally transported vesicles in nerve terminals. Journal of Neurocytology, 20:365-375 [PMID: 1714489]

Brown, A. & Lasek, R.J. (1990). The cytoskeleton of the squid giant axon. *In* Squid as experimental animals (Gilbert, D.L., Adelman, W.J., Jr. & Arnold, J.M., eds.), Plenum Publishing Corporation, N.Y., 235-302

Brown, A. & Eagles, P.A.M. (1986). Squid neurofilaments: phosphorylation and Ca⁺⁺-dependent proteolysis *in situ*. Biochemical Journal, 239:191-197 [PMID: 3800978]

ABSTRACTS (Total = 74)

Bailey, H.M., Monsma, P.C. & **Brown, A.** (2025). Immunofluorescence array tomography of neurofilament accumulations in a mouse model of Charcot-Marie-Tooth disease type 2E. Annual Meeting of the American Society for Cell Biology, Dec. 6-10, Philadelphia, PA.

Nowier, R.M., Johnson, C.M., Fenn, J.D., **Brown, A.** & Jung, P. (2025). Neurofilament transport kinetics can be explained by the activity of small numbers of kinesin and dynein motors. To be presented at the Annual Meeting of the American Society for Cell Biology, Dec. 6-10, Philadelphia, PA.

Holecek, C.E., Monsma, P.C., Yalvac, M.E. & **Brown, A.** (2025). Validating a patient-derived induced pluripotent stem cell model for studying neurofilament accumulations in Charcot-

Marie-Tooth disease type 2E. To be presented at the Annual Meeting of the American Society for Cell Biology, Dec. 6-10, Philadelphia, PA.

Holecek, C.E., Monsma, P.C., Yalvac, M.E. & **Brown, A.** (2025). Validating a patient-derived induced pluripotent stem cell model for studying neurofilament accumulations in Charcot-Marie-Tooth disease. Toledo CellulArt 2025, University of Toledo, Ohio.

Nowier, R.M., Friedman, A., **Brown, A.** & Jung, P. (2023). The differential roles of neurofilament gene expression and the slowing of their transport in the radial growth of myelinated axons. Annual Meeting of the American Physical Society, March 2023 (Abstract #Q11.006)

King, S.D., Monsma, P.C., Stone, E.J, Uchida, A., Rodrigo, R., Owendoff, G., Arnold, W.D. & **Brown, A.** (2022). A comparative study of mouse models of dominant and recessive Charcot-Marie-Tooth disease type 2E. Journal of the Peripheral Nervous System 27:S166

Regmi, S., Jung, P. & **Brown, A.** (2022). Molecular quakes and neurofilament movement. Annual Meeting of the American Physical Society, March 2022 (Abstract #K07.008)

Nowier, R.M., Jung, P. & **Brown, A.** (2022). A slowing of neurofilament transport and an increase in neurofilament influx both contribute to the radial growth of axons during development. Annual Meeting of the American Physical Society, March 2022 (Abstract #K07.007)

King, S.D. Monsma, P.C., Stone, E.J, Uchida, A., Rodrigo, R., Owendoff, G., Arnold, W.D. & **Brown, A.** (2021). A comparative study of mouse models of dominant and recessive Charcot-Marie-Tooth disease type 2E. Program No. 295.02. 2021 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2019. Online.

Uchida, A. & **Brown, A.** (2019). Laser-induced severing reveals evidence for a preferential association of motors with the leading ends of moving neurofilaments. Molecular Biology of the Cell 30:297 (Abstract #B509)

Stone, E.J., Uchida, A., Monsma, P.C., Sheldon, A.N. & **Brown, A.** (2019). A Charcot-Marie-Tooth disease type 2E point mutation in neurofilament protein L (NFL) causes altered neurofilament protein levels and impaired neurofilament assembly *in vivo*. Molecular Biology of the Cell 30:299 (Abstract #B512)

Boyer, N.P., Jung, P. & **Brown, A.** (2019). Neurofilament transport is bidirectional *in vivo* and is developmentally regulated. Molecular Biology of the Cell 30:291 (Abstract #B498)

Ciocanel, M.V., Jung, P. & **Brown, A.** (2019). A mechanism for neurofilament transport acceleration through nodes of Ranvier. Molecular Biology of the Cell 30:293 (Abstract #B491)

Friedman, A., **Brown, A.** & Jung, P. (2019). Radial axonal growth and slowing of neurofilament transport. Molecular Biology of the Cell 30:294 (Abstract #B505)

Boyer, N.P., Jung, P. & **Brown, A.** (2019). Neurofilament transport is bidirectional *in vivo* and is developmentally regulated. Toledo CellulART 2019, Toledo Museum of Art, Toledo, OH

Stone, E.J., Uchida, A., Monsma, P.C. & **Brown, A.** (2019). A Charcot-Marie-Tooth disease type 2E point mutation in neurofilament protein L causes protein instability, atrophied axons and proximal neurofilament accumulations. Program No. 566.16. 2019 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2019. Online.

Stone, E.J., Uchida, A. & **Brown, A.** (2018). Charcot-Marie-Tooth disease type 2E mutant neurofilament subunit proteins assemble into neurofilaments. Molecular Biology of the Cell 28:453 (Abstract #3263)

Nguyen, T., **Brown, A.** & Jung, P. (2017). Neurofilament kinetics and changes in axonal caliber after axonal injury. Annual Meeting of the American Physical Society, Session on "Polymer Physics". Bulletin of the American Physical Society, 62: Abstract ID: BAPS. 2017.MAR.M1.242. Online.

Fenn, J.D., Monsma, P.C. & **Brown, A.** (2017). Neurofilament transport impairment precedes microtubule-neurofilament segregation in axons treated with 3,3'-iminodipropionitrile (IDPN). Molecular Biology of the Cell 28:1418 (Abstract #3235)

Nguyen, T., **Brown, A.** & Jung, P. (2017). Neurofilament transport may be regulated by the proximity of neurofilaments to their microtubule tracks. Molecular Biology of the Cell 28:852 (Abstract #2348)

Stone, E.J., Uchida, A. & **Brown, A.** (2017). Charcot-Marie-Tooth disease type 2E mutant neurofilament subunit proteins assemble into neurofilaments. Program No. 049.05. 2017 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2017. Online.

Uchida, A. & **Brown, A.** (2017). A dynamic cycle of severing and annealing of regulates neurofilament polymer transport. Program No. 198.07. 2017 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2017. Online.

Fenn, J.D., Johnson, C., Jung, P. & **Brown, A.** (2015). Kymograph analysis of the complex folding, unfolding and motile behaviors of axonal neurofilaments. Molecular Biology of the Cell 26:4523 (Abstract #2032)

Xue, C. & **Brown, A.** (2015). A stochastic multiscale model that explains the segregation of axonal microtubules and neurofilaments in neurological diseases. Molecular Biology of the Cell, 26:4523 (Abstract #1283)

Johnson, C., Fenn, J.D., **Brown, A.** & Jung, P. (2014). Is the axonal transport of neurofilaments a tug-of-war between opposing motors? Molecular Biology of the Cell, 25:3987 (Abstract #456)

Uchida, A. & **Brown, A.** (2014). Regulation of neurofilament transport by a dynamic cycle of polymer severing and annealing. Molecular Biology of the Cell, 25:3987 (Abstract #1286)

Fenn, J.D., Jung, P., Julien, J.-P. & **Brown, A.** (2014). Mobility of neurofilaments in mature myelinated axons. Molecular Biology of the Cell, 25:3987 (Abstract #458)

Fenn, J.D., Julien, J.-P., Jung, P. & **Brown, A.** (2014). Mobility of neurofilaments in mature myelinated axons. Gordon Research Conference on “*Intermediate Filaments*”, Mount Snow Resort, West Dover, VT

Uchida, A. & **Brown, A.** (2014). Regulation of neurofilament transport by a dynamic cycle of severing and annealing. Gordon Research Conference on “*Intermediate Filaments*”, Mount Snow Resort, West Dover, VT

Li, Y., **Brown, A.** & Jung, P. (2014). Deciphering the axonal transport kinetics of neurofilaments using the fluorescence photoactivation pulse-escape method. *Twenty-Third Annual Computational Neuroscience Meeting (CNS2014)*. Abstract #91.

Uchida, A. & **Brown, A.** (2013). Severing of neurofilaments in neurons. Workshop on “*Emerging Concepts of the Neuronal Cytoskeleton*”, Maitencillo, Chile.

Johnson, C., Jung, P. & **Brown, A.** (2013). Electrophysiology of axonal constrictions. Annual Meeting of the American Physical Society, Session on “Novel Experimental Techniques for Probing Cellular Mechanics”. *Bulletin of the American Physical Society*, 58: Abstract ID: BAPS.2013.MAR.Y44.2. Online.

Li, Y., Jung, P. & **Brown, A.** (2013). The formation of axonal caliber and nodes of Ranvier. Annual Meeting of the American Physical Society, Session on “Novel Experimental Techniques for Probing Cellular Mechanics”. *Bulletin of the American Physical Society*, 58: Abstract ID: BAPS.2013.MAR.Y44.4. Online.

Li, Y., Jung, P. & **Brown, A.** (2011). Axonal transport of neurofilaments in the mouse optic nerve: a single population of neurofilaments moving intermittently at a broad range of average rates. *Molecular Biology of the Cell*, 22:4705 (Abstract #1166)

Monsma, P.C., Li, Y., Jung, P. & **Brown, A.** (2011). Local regulation of neurofilament transport by myelinating cells. *Molecular Biology of the Cell*, 22:4705 (Abstract #1168)

Neuendorf, C.L., Julien, J.-P., Jung, P. & **Brown, A.** (2011). Local acceleration of neurofilament transport at nodes of Ranvier. *Molecular Biology of the Cell*, 22:4705 (Abstract #1167)

Uchida, A., Çolakoğlu, G., Wang, L. & **Brown, A.** (2011). Evidence for end-to-end annealing and fragmentation of neurofilaments in cultured neurons. *Molecular Biology of the Cell*, 22:4705 (Abstract #1513)

Wang, L., Uchida, A. & **Brown, A.** (2011). Interaction of neurofilaments with kinesin-1A and dynein/dynactin. *Molecular Biology of the Cell*, 22:4705 (Abstract #1170)

Taylor, N.J., Wang, L. & **Brown, A.** (2011). Neurofilaments are transported along axons in an unfolded and fully extended conformation. *Molecular Biology of the Cell*, 22:4705 (Abstract #1169)

Uchida, A. & **Brown, A.** (2011). Evidence for breakage and end-to-end annealing of neurofilaments in cultured neurons. Workshop on “*Emerging Concepts of the Neuronal Cytoskeleton*”, Santa Cruz, Chile.

Jung, P., Zhao, P., Monsma, P. & **Brown, A.** (2011). Axonal transport and morphology: how myelination gets nerves into shape. Annual Meeting of the American Physical Society, Session on "Physics of Physiological Systems". Bulletin of the American Physical Society, 56: Abstract ID: BAPS.2011.MAR.D39.1. Online.

Li, Y., **Brown, A.** & Jung, P. (2011). Axonal transport and morphogenesis near retinal excavation of the eye. Annual Meeting of the American Physical Society, Session on "Physics of Physiological Systems". Bulletin of the American Physical Society, 56: Abstract ID: BAPS.2011.MAR.D39.10. Online.

Li, Y., Ying, C. Jung, P. & **Brown, A.** (2010). Molecular kinetics and axonal morphodynamics. Annual Meeting of the American Physical Society, Session on "Dynamics of Neural Systems". Bulletin of the American Physical Society, 56: Abstract ID: BAPS.2010.MAR.V10.10. Online.

Wang, L. & **Brown, A.** (2009). Disruption of neurofilament transport by a hereditary spastic paraplegia mutation in kinesin-1A. Presentation number 1902. 2009 Program Planner and Abstract Viewer System. Washington, DC: American Society for Cell Biology, 2009. Online.

Alami, N. & **Brown, A.** (2009). Analyzing the role of the dynein/dynactin complex in neurofilament transport. Keystone Symposium on "*Neurodegenerative Diseases: New Molecular Mechanisms*", Keystone, Colorado.

Jung, P., Ying, C., Li, Y. & **Brown, A.** (2009). Kinetics of Slow Axonal Transport and Axon Shape. Annual Meeting of the American Physical Society, Session on "Quantitative Biology". Bulletin of the American Physical Society, 56: Abstract ID: BAPS.2009.MAR.W39.5. Online.

Çolakoğlu, G. & **Brown, A.** (2008). Intermediate filaments exchange subunits along their length and elongate by end-to-end annealing. Gordon Research Conference on "*Intermediate Filaments*", Magdalen College, Oxford, England.

Çolakoğlu, G. & **Brown, A.** (2007). Intermediate filaments exchange subunits along their length and elongate by end-to-end annealing. Presentation number 2344. 2007 Program Planner and Abstract Viewer System. Washington, DC: American Society for Cell Biology, 2007. Online.

Jung, P., Trivedi, N., Wang, L. & **Brown, A.** (2007). Slow axonal transport: Neurofilaments switch between distinct mobile and stationary states during their transport along axons. Annual Meeting of the American Physical Society, Focus Session on "Brownian Motors in Physics, Chemistry, and Biology". Bulletin of the American Physical Society, 56: Abstract ID: BAPS.2007.MAR.N34.9. Online.

Alami, N. & **Brown, A.** (2006). Neurofilaments spend more time pausing in axons lacking myosin Va. Presentation number 999. 2006 Program Planner and Abstract Viewer System. San Diego, CA: American Society for Cell Biology, 2006. Online.

Uchida, A. & **Brown, A.** (2005). KIF5A is the principal anterograde motor for neurofilaments in cultured sympathetic neurons and is also required for normal retrograde movement. Presentation number 1492. 2005 Program Planner and Abstract Viewer System. San Francisco, CA: American Society for Cell Biology, 2005. Online.

Alami, N. & **Brown, A.** (2005). Neurofilaments are transported normally along axons of cultured neurons lacking myosin Va. Presentation number 2499. 2005 Program Planner and Abstract Viewer System. San Francisco, CA: American Society for Cell Biology, 2005. Online.

Trivedi, N., Jung, P. & **Brown, A.** (2005). Experimental evidence for protracted pausing of neurofilaments in axons. Presentation number 2493. 2005 Program Planner and Abstract Viewer System. San Francisco, CA: American Society for Cell Biology, 2005. Online.

Uchida, A. & **Brown, A.** (2005). Impairment of both anterograde and retrograde neurofilament transport in neurons cultured from KIF5A knockout mice. Program No. 367.14. 2005 Abstract Viewer and Itinerary Planner. Washington, DC: Society for Neuroscience, 2005. Online.

Yan, Y. & **Brown, A.** (2005). Analysis of the polypeptide composition and phosphorylation state of moving and pausing neurofilaments in cultured neurons using immunofluorescence microscopy. Program No. 367.2. 2005 Abstract Viewer and Itinerary Planner. Washington, DC: Society for Neuroscience, 2005. Online.

Yan, Y. & **Brown, A.** (2003). Neurofilaments are transported along axons as single polymers. Molecular Biology of the Cell, 14:57a

Brown, A. & Jung, P. (2003). The 'stop and go' hypothesis of slow axonal transport: experiments *in silico*. Molecular Biology of the Cell, 14:57a

Uchida, A. & **Brown, A.** (2003). Arrival, reversal and departure of neurofilaments at the tips of growing axons. Molecular Biology of the Cell, 14:57a

Brown, A. (2002). 'Stop and go' movement of cytoskeletal polymers in axons. Journal of Neurochemistry, 81:S04-02

Wang, L. & **Brown, A.** (2001). Rapid intermittent movement of tubulin in axons. Molecular Biology of the Cell, 12:182a

Wang, L. & **Brown, A.** (2000). Rapid intermittent movement of axonal neurofilaments revealed by fluorescence photobleaching. Molecular Biology of the Cell, 11:544a

Brown, A. (2000). Slow axonal transport of neurofilaments. Bulletin of the Japanese Society for Neurochemistry, 39:S77

Brown, A. (2000). Live-cell imaging of the movement of neurofilaments in axons: new insights into the mechanism of slow axonal transport. Journal of Neurochemistry, 74:S92A

Wang, L., Ho, C.-L., Liem, R.K.H. & **Brown, A.** (1999). Direct observation of the axonal transport of GFP-tagged neurofilament protein in cultured neurons. Molecular Biology of the Cell, 10:140a

Koehnle, T.J. & **Brown, A.** (1998). Slow axonal transport of neurofilament protein in cultured neurons. Molecular Biology of the Cell, 9:159a

Brown, A. (1998). Establishing the neurofilament array of the axon. Journal of Neurochemistry, 70:S5C

Brown, A. (1996). Analysis of the phosphorylation state of a neurofilament protein along axons and along axonal neurofilaments. Molecular Biology of the Cell, 7:218a

Brown, A. (1996). Visualization of axonal neurofilaments by immunofluorescence microscopy of splayed axonal cytoskeletons. Molecular Biology of the Cell, 7:218a

Brown, A., Slaughter, T.S. & Black, M.M. (1991). High concentrations of newly assembled microtubules in the proximal and distal regions of axons. Journal of Cell Biology, 115:174a

Brown, A., Slaughter, T.S. & Black, M.M. (1991). Visualization of compositional domains along individual microtubules in cultured neurons by fluorescence microscopy. Journal of Cell Biology, 115:174a

Baas, P.W., Ahmad, F.J., Pienkowski, T.P., **Brown, A.** & Black, M.M. (1991). Sites of microtubule stabilization for the axon. Journal of Cell Biology, 115:174a

Brown, A. & Lasek, R.J. (1988). Neurofilaments are inherently non-interactive and will disperse radially in the absence of an axonal plasma membrane. Journal of Cell Biology, 107:464a

Brown, A. & Lasek, R.J. (1988). The packing density of cytoskeletal polymers in axoplasm affects the resistance to polymer sliding. Biological Bulletin, 175:301

Baker, P.F. & **Brown, A.** (1986). Transfer of newly synthesized protein into the giant axon of the squid *Loligo forbesi*. Journal of Physiology (London), 381:74P

INVITED TALKS

- 2026 Keynote Speaker, *11th Annual Biology Graduate Student Research Symposium*, University of Toledo, OH
- 2023 Molecular Biology Institute, UCLA, CA
- 2023 Department of Biological Sciences, Rensselaer Polytechnic Institute, NY
- 2022 *Cytoskeleton of Neurons and Glia* virtual seminar, ncytoskeleton.wixsite.com
- 2021 Symposium on *Emerging Roles of the Cytoskeleton in Cellular Functions*, 44th Annual Meeting of the Chilean Society for Biochemistry and Molecular Biology, virtual meeting
- 2019 Charcot-Marie-Tooth Association workshop on *Charcot-Marie-Tooth disease*, Northwestern University, Chicago, IL
- 2019 *Toledo CellulART*, Early Career Meeting sponsored by the American Society for Cell Biology, Toledo, OH
- 2017 Keynote speaker, *Ohio University Neuroscience Research Day*, Lake Hope State Park Lodge, McArthur, OH
- 2017 EMBO Workshop and IUBMB Focused Meeting on *Emerging Concepts of the Neuronal Cytoskeleton*, Puerto Varas, Chile
- 2016 Department of Neuroscience, Scripps Research Institute, Jupiter, FL
- 2016 Charcot-Marie-Tooth Association, San Diego, CA
- 2015 Charcot-Marie-Tooth Association workshop on Charcot-Marie-Tooth disease type 2E, Northwestern University, Chicago, IL

- 2015 *The Long and Winding Road: Neuronal Trafficking in Physiology and Disease*, HHMI Conference, Janelia Farm Research Campus, Ashburn, VA
- 2015 *Buckeye Cell Biology: Around the Cell in A Day*, Early Career Meeting sponsored by the American Society for Cell Biology, Columbus, OH
- 2015 Shriners Hospitals Pediatric Research Center, Temple University, Philadelphia, PA
- 2015 EMBO Workshop on *Emerging Concepts of the Neuronal Cytoskeleton*, Puerto Varas, Chile
- 2014 Special Interest Subgroup on *Non-conventional Functions of Molecular Motors*, 54th Annual Meeting of the American Society for Cell Biology, Philadelphia, PA
- 2014 Current Topics Workshop on *Axonal transport and neuronal mechanics*, Mathematical Biosciences Institute, Ohio State University, Columbus, OH
- 2014 Gordon Research Conference on *Intermediate Filaments*, Mount Snow Resort, West Dover, VT
- 2014 Department of Biological Sciences, SUNY Buffalo, Buffalo, NY
- 2014 Graduate Program in Molecular, Cellular and Integrative Neurosciences, Colorado State University, Fort Collins, CO
- 2013 Department of Biology, University of Rochester, Rochester, NY
- 2013 Workshop on *Emerging Concepts of the Neuronal Cytoskeleton*, Marbella Resort, Maitencillo, Chile
- 2013 Department of Biomedical Engineering, Carnegie Mellon University, Pittsburgh, PA
- 2012 Special Interest Subgroup on *Axonal Transport: Mechanisms of Regulating Cargo Transport in Neuronal Development, Maintenance and Disease*, 52nd Annual Meeting of the American Society for Cell Biology, San Francisco, CA
- 2012 Department of Cell Biology and Neuroscience, Rutgers University, Piscataway, NJ
- 2012 NIH Neurobiology Interest Group Seminar Series, National Institutes of Health, Bethesda, MD
- 2012 Department of Cell Biology and Center for Neurodegenerative Disease, Emory University School of Medicine, Atlanta, GA
- 2011 Special Interest Subgroup on *Non-conventional Functions of Molecular Motors*, 51st Annual Meeting of the American Society for Cell Biology, Denver, CO
- 2011 Workshop on *Emerging Concepts of the Neuronal Cytoskeleton*, Santa Cruz, Chile
- 2010 Special Interest Subgroup on *Axonal Transport at the Nexus of Development, Signaling and Disease*, 50th Annual Meeting of the American Society for Cell Biology, Philadelphia, PA
- 2010 Third International Workshop on *Molecular and Cellular Mechanisms of Axon Degeneration*, Eibsee, Germany
- 2009 Symposium on *Axonal Homeostasis and Disease* sponsored by the International Society for Neurochemistry at the 52nd Annual Meeting of the Japanese Society for Neurochemistry, Ikaho, Japan
- 2009 Department of Molecular and Cellular Neurobiology, Gunma University Graduate School of Medicine, Gunma, Japan
- 2008 MRC Centre for Developmental Neurobiology, King's College, University of London, England
- 2008 Gordon Research Conference on *Intermediate Filaments*, Magdalen College, Oxford, England
- 2008 Neuroscience Institute, Stanford University School of Medicine, Stanford, CA
- 2007 Ottawa Health Research Institute, University of Ottawa, Ontario, Canada
- 2006 Gordon Research Conference on *Intermediate Filaments*, Salve Regina University, Newport, RI
- 2005 Keystone Symposium on *Cytoskeletal Systems Interactions in Cellular Morphogenesis*, Coeur d'Alene, ID

- 2004 Molecular, Cellular and Integrative Neurosciences Graduate Program, Colorado State University, Fort Collins, CO
- 2004 International Conference on *Mathematics in Biology and Medicine* and Annual Meeting of the Society for Mathematical Biology, University of Michigan, Ann Arbor, MI
- 2004 Heidelberg College, Tiffin, OH
- 2003 Department of Neurosciences, Lerner Research Institute, Cleveland Clinic, Cleveland, OH
- 2003 Department of Biology, Indiana University, Bloomington, IN
- 2003 Department of Biological Sciences, Ohio University, Athens, OH
- 2003 Department of Physiology, Johns Hopkins University, Baltimore, MD
- 2002 *Hunt/Curtis Symposium on Translational Neuroscience*, The Ohio State University, Columbus, OH
- 2002 Graduate Programs in Neuroscience and Cell Biology, University of Cincinnati, Cincinnati, OH
- 2002 Symposium on *Dynamics of the Neuronal Cytoskeleton*, 33rd Annual Meeting of the American Society for Neurochemistry, Palm Beach, FL
- 2002 Department of Biological Sciences, Purdue University, West Lafayette, IN
- 2001 Neuroscience Program, Michigan State University, East Lansing, MI
- 2001 Gordon Research Conference on *Motile and Contractile Systems*, Colby Sawyer College, New London, NH
- 2001 Department of Neurobiology and Anatomy, MCP Hahnemann University, Philadelphia, PA
- 2001 Center for Neurodegenerative Disease Research, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA
- 2000 Symposium on *Roles of Neurofilaments in Axonal Generation and Maintenance*, Annual Meeting of the Japanese Society for Neurochemistry, Kanazawa, Japan
- 2000 Department of Biological Sciences, Graduate School of Science, Tokyo Metropolitan University, Tokyo, Japan
- 2000 Department of Clinical Neuroscience, Osaka University Graduate School of Medicine, Osaka, Japan
- 2000 Workshop on *Live Cell Imaging of Cytoskeletal Transport in Neurons*, 31st Annual Meeting of the American Society for Neurochemistry, Chicago, IL
- 2000 Department of Physiology and Cell Biology, Ohio State University College of Medicine, Columbus, OH
- 1998 Department of Cell Biology, Neurobiology and Anatomy, University of Cincinnati College of Medicine, Cincinnati, OH
- 1998 Symposium on *The Neuronal Cytoskeleton*, 29th Annual Meeting of the American Society for Neurochemistry, Denver, CO
- 1992 Symposium on *Neurite Outgrowth in Development* at the 104th Annual Meeting of the American Association of Anatomists, New York, NY
- 1991 Department of Anatomy, University of Wisconsin Medical School, Madison, WI
- 1989 Department of Anatomy, Temple University School of Medicine, Philadelphia, PA

PROFESSIONAL SERVICE

- 2010-present Institutional Ambassador for Ohio State University, American Society for Cell Biology
- 2001-present Member of Editorial Board, *Cytoskeleton* (formerly *Cell Motility and the Cytoskeleton*)

- 2026 Ad hoc member, NIH ZRG1 CDB-T (30) I S10 Special Emphasis Panel
- 2024 Ad hoc member, NIH ZRG1 CDB-E (30) S10 Special Emphasis Panel
- 2022 Ad hoc member, NIH ZRG1 CB-J (90) I S10 Special Emphasis Panel
- 2022 *Ad hoc* member, NIH ZRG1 CB-J (30) S10 Special Emphasis Panel
- 2022 *Ad hoc* member, NIH ZRG1 F05-D Fellowship Review Panel: Cell Biology, Developmental Biology and Bioengineering
- 2022 *Ad hoc* reviewer, NSF IOS ORG Review Panel
- 2020 *Ad hoc* member, NIH ZRG1 MDCN-B (04) M Special Emphasis Panel
- 2019 *Ad hoc* member, NIH ZRG1 CB-H S10 Special Emphasis Panel
- 2019 Session chair, *EMBO Workshop on Emerging Concepts of the Neuronal Cytoskeleton*, Villarica, Chile
- 2018 External P&T Reviewer, Department of Neurosciences and Neuropathology, University of California San Diego
- 2017 External P&T Reviewer, Department of Cell Biology and Neuroscience, Rutgers University
- 2017 External P&T Reviewer, Department of Biomedical Engineering, Carnegie Mellon University
- 2016 External P&T Reviewer, Department of Pathology and Laboratory Medicine, University of Wisconsin at Madison
- 2016 External P&T Reviewer, Department of Anatomy & Cell Biology, Temple University School of Medicine
- 2016 External P&T Reviewer, Department of Biological Sciences, Simon Fraser University, Canada
- 2016 External P&T Reviewer, Department of Cell Biology & Physiology, UNC Chapel Hill
- 2016 Co-editor (with Peter Baas, James Bamburg and Christian González-Billault), special issue of the journal *Cytoskeleton* on *Emerging Concepts of the Neuronal Cytoskeleton*
- 2015 Co-organizer (with Stephanie Gupton, Laura Ann Lowery and Subhojit Roy), Special Interest Subgroup K at the 55th Annual Meeting of the American Society for Cell Biology: *Neuronal Cytoskeleton: Cytoarchitecture and Dynamics*
- 2015 Co-organizer (with Christian González-Billault), *EMBO Workshop on Emerging Concepts of the Neuronal Cytoskeleton*, Puerto Varas, Chile
- 2014 External P&T Reviewer, Department of Biological Sciences, SUNY Buffalo
- 2010-2016 Full member, NIH SYN *Synapses, Cytoskeleton and Trafficking* Study Section
- 2013 External P&T Reviewer, Department of Biomedical Engineering, Carnegie Mellon University
- 2011 External P&T Reviewer, Department of Biology, Rensselaer Polytechnic Institute
- 2010 Co-organizer (with Peter J. Hollenbeck), Special Interest Subgroup C at the 50th Annual Meeting of the American Society for Cell Biology: *Axonal Transport at the Nexus of Development, Signaling and Disease*
- 2009 *Ad hoc* member, NIH ZRG1 MDCN-A Study Section
- 2009 *Ad hoc* grant reviewer, Wellcome Trust
- 2009 *Ad hoc* member, NIH ZRG1 MDCN-G Study Section
- 2009 *Ad hoc* member, NIH SYN Study Section
- 2008 External P&T Reviewer, Departments of Neurosciences and Neuropathology, University of California San Diego

- 2006 External P&T Reviewer, Department of Molecular Biology and Biochemistry, University of Missouri at Kansas City
- 2008 Member, NSF IOS ORG Review Panel
- 2007 External examiner, PhD Thesis, University of Ottawa
- 2007 *Ad hoc* member, NIH ZNS1 SRB-M Study Section
- 2007 *Ad hoc* member, NIH ZNS1 SRB-M Study Section
- 2007 *Ad hoc* member, NIH SYN Study Section
- 2006 External P&T Reviewer, Department of Neurology and Neurological Sciences, Stanford University
- 2006 *Ad hoc* grant reviewer, Alzheimer's Association
- 2005 *Ad hoc* member, NIH SYN Study Section
- 2005 *Ad hoc* grant reviewer, NSF MCB Cellular Systems cluster
- 2004 *Ad hoc* member, NIH SYN Study Section
- 2003 *Ad hoc* member, NIH MDCN-1 Study Section
- 2002 *Ad hoc* member, Special Telephone Review Panel, NIH MDCN-1 Study Section
- 2002 *Ad hoc* member, NIH MDCN-1 Study Section
- 2001 *Ad hoc* member, NIH MDCN-1 Study Section
- 2000 *Ad hoc* member, NIH MDCN-1 Study Section
- 1999 *Ad hoc* member, NIH MDCN-1 Study Section
- 1999 *Ad hoc* grant reviewer, NSF IBN Program in Neuronal and Glial Mechanisms

Reviewed manuscripts for *Acta Neuropathologica Communications, Advanced Science, Biochimica et Biophysica Acta, Biophysical Journal, BioTechniques, Brain Research, Cell Motility and the Cytoskeleton, Cellular and Molecular Life Sciences, Communications Biology, Current Biology, Cytoskeleton, Experimental Cell Research, Frontiers in Cell and Developmental Biology, Frontiers in Neuroscience, iScience, Journal of Biological Chemistry, Journal of Biological Physics, Journal of Cell Biology, Journal of Cell Science, Journal of Experimental Biology, Journal of Neuroscience, Journal of Neuroscience Research, Journal of Visualized Experiments, Mathematical Biosciences, Molecular Biology of the Cell, Molecular Genetics and Genomic Medicine, Molecular Neurobiology, Nature Cell Biology, Nature Communications, Nature Methods, Nature Protocols, Nature Reviews Neuroscience, Neurobiology of Disease, PLoS Biology, PLoS Computational Biology, PLoS One, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society A, Review Commons, Science, Soft Matter, Synapse, The Neuroscientist, Traffic, Trends in Cell Biology*

HONORS AND AWARDS

- 2009 Ohio State University College of Medicine *Excellence in Teaching Award*
- 2008 Ohio State University School of Biomedical Sciences *Excellence in Research and Teaching Award*
- 2005 14th annual *Paper of the Year Award* from the Editorial Board of *Molecular Biology of the Cell* to Atsuko Uchida (post doc in Brown lab)
- 1982 *Medical Research Council Research Studentship*
- 1982 Graduated with first class honors, King's College, University of London
- 1982 Layton Science Research Award, King's College School of Biomedical Sciences
- 1981 Jean Hanson Award, King's College School of Biological Sciences
- 1980 Sambrooke Exhibition, King's College Faculty of Science

MEMBERSHIPS

2000-present	Society for Neuroscience
1992-present	American Association for the Advancement of Science
1988-present	American Society of Cell Biology

INSTITUTIONAL SERVICE

Ohio State University (2001-present)

University:

2015-present	Co-Director, Molecular, Cellular and Developmental Biology Graduate Program
2004-2021	Director, Ohio State University Neuroscience Imaging Core
2017-2021	Director, Ohio State University Neuroscience Center Core
2016-2017	Mentor, Louis Stokes Alliances for Minority Participation (LSAMP) Program
2006-2015	Coordinator, Neuroscience Graduate Studies Program Seminar Series
2003-2015	Member, Neuroscience Graduate Studies Program Committee
2013-2014	Mentor, RUMBA Program (Research for Undergraduates: adventures in Mathematical Biology and its Applications)
2013	Graduate Faculty Representative, PhD Thesis Defense in Entomology
2010	Poster judge, Denman Undergraduate Research Forum
2009	Poster judge, Denman Undergraduate Research Forum
2007-2008	First year advisor to 6 students in Neuroscience Graduate Studies Program
2007	Graduate recruitment presentation, Molecular, Cellular and Developmental Biology Graduate Program
2007	Graduate Faculty Representative, PhD Thesis Defense in Education
2006-2007	First year advisor to 10 students in Neuroscience Graduate Studies Program
2005-2008	Co-presenter and co-coordinator of annual orientation session for first year students in Neuroscience Graduate Studies Program
2005-2006	First year advisor to 6 students in Neuroscience Graduate Studies Program
2004-2005	First year advisor to 6 students in Neuroscience Graduate Studies Program
2003-2005	Member, mentoring committee for Gheorghe Craciun, post-doc in Mathematical Biosciences Institute
2003-2004	First year advisor to 4 students in Neuroscience Graduate Studies Program
2003-2004	First year advisor to one student in Integrated Biomedical Science Graduate Program
2003	Member, Neuroscience Graduate Studies Program Carnegie Initiative on the Doctorate Committee
2003	Member, Neuroscience Graduate Studies Program Carnegie Initiative on the Doctorate Retreat Planning Committee

College:

2025-2028	Dean's Intramural Funding Program Grant Committee
2024-present	Member, Faculty Mentoring Committee for Cole Harrington, Assistant Professor, Department of Neurology
2019-present	Member, Faculty Mentoring Committee for Li-Chun Tu, Assistant Professor, Department of Biological Chemistry and Pharmacology
2014-2015	Chair, OSU Neuroscience Seminar Committee
2009-2013	Member, OSU Neuroscience Seminar Committee
2010	Member, Search Committee for Director of Biomedical Sciences Undergraduate Honors Program
2010	Poster Judge, OSU Research Day
2009-2010	Member, Neuroscience Signature Program Communication/Reputation Taskforce
2008-2009	Member, College of Medicine Search Committee for Chair of Department of Neuroscience
2007	Member, College of Medicine <i>ad hoc</i> Salary Appeals Review Committee
2007-2008	Member, College of Medicine Search Committee for Director of the Nisonger Center
2007-2008	Member, College of Medicine Research Committee
2006-2008	Basic Science Mentor, Allison Danyi, MD/PhD student in Neuroscience Graduate Studies Program
2006-2007	Basic Science Mentor, Erica Hampton, MD/PhD student in Neuroscience Graduate Studies Program
2006	Member, School of Biomedical Science Recognition of Excellence Awards Committee

Department/Center:

2023-present	Co-Chair, Buckeye Neuroscience Graduate Invitational post-doctoral recruitment working group
2021-present	Director, Neuroscience Imaging Core
2021-present	Chair, Neuroscience Core Services Steering Committee
2019-present	Member, Faculty Mentoring Committee for Martin Haesemeyer, Assistant Professor, Department of Neuroscience
2019-present	Member, Faculty Mentoring Committee for Jie Gao, Assistant Professor, Department of Neuroscience
2018-present	Member, Faculty Mentoring Committee for Hongjun Fu, Assistant Professor, Department of Neuroscience
2018-present	Member, Faculty Mentoring Committee for Andrea Tedeschi, Assistant Professor, Department of Neuroscience
2018-present	Member, Department of Neuroscience Executive and Finance Committee
2014-2024	Member, Faculty Mentoring Committee for Jamie Jontes, Associate Professor, Department of Neuroscience
2018-2019	Member, Department of Neuroscience Standing Search Committee
2014-2017	Member, Faculty Mentoring Committee for Yingie Shen, Assistant Professor, Department of Neuroscience
2014-2015	Member, Faculty Mentoring Committee for Chen Gu, Associate Professor, Department of Neuroscience
2013-2018	Member, Department of Neuroscience Executive Committee
2013-2014	Co-organizer, Department of Neuroscience Seminar Committee
2007-2016	Member, Department of Neuroscience Web Site Committee

2010-2014	Member, Faculty Mentoring Committee for Chen Gu, Assistant Professor, Department of Neuroscience
2010-2014	Member, Faculty Mentoring Committee for Dana McTigue, Associate Professor, Department of Neuroscience
2010-2014	Member, Faculty Mentoring Committee for Paul Henion, Associate Professor, Department of Neuroscience
2010-2014	Member, Faculty Mentoring Committee for Glenn Lin, Associate Professor, Department of Neuroscience
2007-2012	Member, Faculty Mentoring Committee for Andrey Dmitriev, Research Assistant Professor, Department of Neuroscience
2007-2014	Member, Faculty Mentoring Committee for Jamie Jontes, Assistant Professor, Department of Neuroscience
2010	P&T Oversight designee, 4 th year review for Chen Gu, Assistant Professor in Department of Neuroscience
2010	P&T Oversight designee, 4 th year review for James Jontes, Assistant Professor in Department of Neuroscience
2005	Member, Department of Neuroscience Faculty Incentives and Salary Recovery Committee
2004-2005	Member, Department of Neuroscience Faculty Search Committee
2002	Member, Hunt-Curtis Neuroscience Symposium Organizing Committee

Ohio University (1993-2001)

University:

1999-2000	Member, General Education Steering Committee
1999	Member, Search Committee for Director of Writing Across the Campus Curriculum Program
1998-2001	Member, Institutional Animal Care and Use Committee
1996-1998	Member, Committee for Writing Across the Campus
1996-1998	Mentor, Student Achievement in Research and Scholarship Program
1996	Chair, Committee for Writing Across the Campus Sub-Committee on First Year Writing
1996	Reader, Tier I Junior English (J-course) Exemption Exam

College:

2000	Member, Annual Review Committee for Dean of Honors Tutorial College
2000	Presenter, Center of Teaching Excellence Workshop on Teaching and Research Mentoring New Faculty
1998	Mentor, Honors Tutorial College faculty-student mentoring program
1995-1997	Presenter, Annual Pre-College Admissions Preview Presentation for the life sciences
1995	Academic Adviser, Advise Relocate Day
1995	Chair, College of Osteopathic Medicine Library Task Force
1994-1999	Member, College of Osteopathic Medicine Student Selection Advisory Committee

Department:

2000-2001	Director of Studies, Honors Tutorial College Program in Biological Sciences
2000-2001	Chair, Molecular Cell Biologist Faculty Search Committee
1999	Acting Director of Studies, Honors Tutorial College Program in Biological Sciences
1999-2001	Advisor and Director of Studies, Departmental Honors Program in Biological Sciences
1999-2001	Member, <i>Ad hoc</i> Committee for Undergraduate Curricular Reform
1999-2001	Member, Molecular Developmental Biologist Faculty Search Committee
1994-1995	Member, Animal Physiologist Faculty Search Committee
1996-1997	Member, Molecular Biologist Faculty Search Committee
1998	Member, Medical Histologist Faculty Search committee
1995-1996	Undergraduate recruitment presentations to high school students and parents
1994-2001	Member, Undergraduate Curriculum Committee
1994-2000	Departmental Library Representative
1997-2001	Member, Chair's Advisory Committee
1995	Conducted comprehensive survey of writing in all Biological Sciences and Microbiology undergraduate courses for the Undergraduate Curriculum Committee
1993-2001	Advisor to 20-30 Biological Sciences Pre-Med majors each year

TEACHING

Ohio State University (2001-present)

Undergraduate:

2020-present	Special Topics in Biomedical Science II: Genetics and Neurological Disease, BIOMSCI 4820H, 1 credit hour, 7% taught
2016	Biomedical Science Honors Research Experience I, BIOMSCI 3891H, 5 credit hours, 100% taught
2012-2015	Biomedical Science Honors Research Experience I, BIOMSCI 3891H, 5 credit hours, 100% taught (Course Director)
2007-2011	Biomedical Science Honors Research Experience I, BIOMSCI H720.01, 5 credit hours, 100% taught (Course Director)
2009	Introduction to Research Seminar II, BIOMSCI H320.02, 1 credit hour, 10% taught
2009	RUMBA (Research for Undergraduates: adventures in Mathematical Biology and its Applications) Seminar in Mathematical Biology, MATH 693L/EEOB 293L, 1 credit hour, 10% taught
2008	Honors Cell Biology, MOLGEN H607, 4 credit hours, 2% taught
2007	Biomedical Science Honors Research Experience II, BIOMSCI H720.02, 5 credit hours, 100% taught

Graduate:

2019	First-year student orientation, OSBP 7600, 1 credit hour, 25% taught (Course Co-Director)
2018-present	Molecular Life Sciences Seminar Series, MCDBIO 7990, 1 credit hour, Fall and Spring semesters, 13% taught (Course Co-Director)

2016-present	MCDB Student Seminar, MCDBIO 7890/7891, 1 credit hour, Fall and Spring semesters (Course Co-Director)
2016-present	Concepts in Biomedical Sciences, BSGP 7000, 6 credit hours, 9% taught
2012-present	Foundations of Neuroscience I, NEUROSC 7001, 6 credit hours, 6% taught
2012-present	Current Topics in Neuroscience I, NEUROSC 7100, 1 credit hour, 7% taught
2012-present	Advanced Experimental Methods in Biophysics, BIOPHYS 6702, 1 credit hours, 2% taught
2012-2015	Concepts in Biomedical Sciences, BSGP 7000, 6 credit hours, 9% taught (Course Director)
2005-2011	Advanced Experimental Methods in Biophysics, BIOPHYS 702, 3 credit hours, 3% taught
2004-2012	Module on Cytoskeleton, Cell Motility and the Extracellular Matrix, IBGP 702.03, 2 credit hours, 25% taught (Module Director)
2004-2012	Research Problem Solving, IBGP 704, 2 credit hours, 10% taught
2003-2011	Cellular and Molecular Neurobiology, NEUROGSP 723, 5 credit hours, 4% taught
2006-2009	Fundamentals of Biomedical Microscopic Imaging, BIOMEDE 694, 3 credit hours, 5% taught
2005	Molecular, Cellular and Development Biology Seminar, MCDBIO 800/890 Series, 2 credit hours, 100% taught
2005	Neuroscience Graduate Seminar, NEUROGSP 797, 1 credit hour, 10% taught
2003	Neuroscience Graduate Seminar, NEUROGSP 797, 1 credit hour, 100% taught
2002-2004	Molecular Neuroscience, NEUROGSP 800, 3 credit hours, 10% taught

Ohio University (1993-2001)

Undergraduate:

1999	Histology, BIOS 408/508, 6 credit hours, 50% taught (Co-Director)
1997-2001	Freshman Honors Tutorial, HT 297, 2 credit hours, 20% taught
1997-1998	Molecular and Cellular Biology Graduate Research Seminar, MCB 741, 1 credit hour, 100% taught
1996-2001	Fundamentals of Cell Biology, BIOS 320, 3 credit hours, 100% taught
1996-1998	OUCOM Pre-Matriculation Microanatomy Summer Course, 30 contact hours, 50% taught (Co-Director)
1995	Freshman Honors Tutorial, HT 297, 2 credit hours, 20% taught
1994-2000	Molecular and Cellular Neurobiology, BIOS 412/512, 4 credit hours, 3% taught
1994-1996	Histology, BIOS 408/508, 6 credit hours, 50% taught (Co-Director)

Graduate:

2000	Advanced Cell Biology, MCB 760, 4 credit hours, 10% taught
1998	Molecular and Cellular Biology Lab, MCB 730, 4 credit hours, 10% taught
1997-1999	Advanced Cell Biology, MCB 760, 4 credit hours, 10% taught
1995	Advanced Cell Biology, MCB 760, 4 credit hours, 10% taught

1993-2001 Microanatomy, OCOM 635, 7 credit hours, 20% taught

STUDENT COMMITTEES

Ohio State University (2001-present)

Doctoral thesis committees:

2026-present	Aritra Mondal, Biophysics Program
2025-present	Bryce Collison, Neuroscience Program
2024-present	MK McCulloch, Molecular, Cellular and Developmental Biology Program
2024-present	Peizhao Zhang, Molecular, Cellular and Developmental Biology Program
2024-present	Richard Perez, Molecular, Cellular and Developmental Biology Program
2024-present	Shuo "Shane" Chen, Biomedical Sciences Program
2024	Katherine Veth, Biomedical Sciences Program
2023-2024	Bennett Yunker, Biophysics Program
2023-present	Ramon Macias, Molecular, Cellular and Developmental Biology Program
2020-present	Daisy Alvarado, Biophysics Program
2020-present	Ian Price, Ohio State Biochemistry Program
2020-2024	Annie Ashraf, Molecular, Cellular and Developmental Biology Program. Graduated: 2024
2021-2023	Chenxi Liang, Biomedical Sciences Program
2020-2023	Kelly Rich, Neuroscience Program. Graduated: 2023
2022-2023	Sunny Kwok, Biomedical Engineering Program
2016-2021	David Ignacio, Molecular, Cellular and Developmental Biology Program. Graduated: 2021
2017-2021	Sarah Light, Neuroscience Program. Graduated: 2021
2016-2020	Benjamin Noble, Neuroscience Program. Graduated: 2020
2015-2020	Brian Paleo, Biomedical Sciences Program. Graduated: 2020
2015-2020	Elizabeth J. Stone, Neuroscience Program. Graduated: 2020
2014-2018	Christopher Wier, Neuroscience Program. Graduated: 2018
2016-2018	Jillian Liu, Biomedical Sciences Program (MD-PhD). Graduated: 2018
2012-2018	J. Daniel Fenn, Biomedical Sciences Program (MD-PhD). Graduated: 2018
2012-2016	Reshma Davidson, Molecular, Cellular and Developmental Biology Program. Graduated: 2016
2012-2013	Joshua Barry, Molecular, Cellular and Developmental Biology Program. Graduated: 2013
2008-2011	Angela Blissett, Biophysics Program. Graduated: 2011
2007-2012	Lina Wang, Neuroscience Program. Graduated: 2012
2006-2008	Rui Xiao, Biophysics Program. Graduated: 2008
2006-2008	Cosmin Mihai, Biophysics Program. Graduated: 2008
2006-2009	Chhavy Tep, Biochemistry Program. Graduated: 2010
2005-2009	Erik Zmuda, Molecular, Cellular and Developmental Biology Program. Graduated: 2009
2005-2008	Brooke McMichael, Molecular, Cellular and Developmental Biology Program. Graduated: 2008
2004-2009	Nael Alami, Molecular, Cellular and Developmental Biology Program. Graduated: 2009
2004-2009	Gulsen Çolakoğlu, Molecular, Cellular and Developmental Biology Program. Graduated: 2009

2003-2005 Louise Rodino-Klapak, Molecular Genetics Program. Graduated: 2005
2003-2005 Michelle McWhorter, Molecular, Cellular and Developmental Biology
Program. Graduated: 2005
2000-2005 Yanping Yan, Neuroscience Program. Graduated: 2005

Doctoral candidacy committees:

2023 Ramon Macias, Molecular, Cellular and Developmental Biology Program
2022 Chenxi Liang, Biomedical Sciences Program
2022 Daisy Alvarado, Biophysics Program
2021 Chenxi Liang, Biomedical Sciences Program
2021 Ian Price, Ohio State Biochemistry Program
2020 Megan Pino, Neuroscience Program (MD-PhD)
2017 Sarah Light, Neuroscience Program
2016 Benjamin Noble, Neuroscience Program
2016 Elizabeth J. Stone, Neuroscience Program
2016 David Ignacio, Molecular, Cellular and Developmental Biology Program
2015 Brian Paleo, Biomedical Sciences Program
2015 Christopher Wier, Neuroscience Program
2014 J. Dan Fenn, Biomedical Sciences Program (MD-PhD)
2012 Jeff Tonniges, Biophysics Program
2012 Reshma Davidson, Molecular, Cellular and Developmental Biology
Program
2011 Beth Golden, Neuroscience Program
2008 Angela Blissett, Biophysics Program
2008 Lina Wang, Neuroscience Program
2007 Nael Alami, Molecular, Cellular and Developmental Biology Program
2007 Gulsen Çolakoğlu, Molecular, Cellular and Developmental Biology
Program
2007 Rui Xiao, Biophysics Program
2007 Bart Naughton, Neuroscience Program
2007 Cosmin Mihai, Biophysics Program
2006 Erik Zmuda. Molecular, Cellular and Developmental Biology Program
2006 Chhavy Tep. Biochemistry Program
2006 Brooke McMichael, Molecular, Cellular and Developmental Biology
Program
2003 Louise Rodino-Klapak, Molecular Genetics Program
2003 Michelle McWhorter, Molecular, Cellular and Developmental Biology
Program
2002 Yanping Yan, Neuroscience Program

Master's thesis committees:

2023 Jaylen Hudson, Molecular, Cellular and Developmental Biology Program.
Graduated: 2023
2022 Elliot Dion, Applied Neuroscience Program. Graduated: 2022
2016 Jonathan Toy, Mathematical Sciences Program, Specialization in
Mathematical Biology. Graduated: 2016
2015 Susan Foss, Mathematical Sciences Program, Specialization in
Mathematical Biology. Graduated: 2015

- 2014 Adaleigh E. Pritchard, Mathematical Sciences Program, Specialization in
Mathematical Biology. Graduated: 2014
- 2013 Jamie A. Roderer, Molecular, Cellular and Developmental Biology
Program. Graduated: 2013

Ohio University (1993-2001)

Doctoral thesis committees:

- 1999-2001 Moses Makokha, Chemistry and Biochemistry Program. Graduated: 2004
- 1999-2001 Lei Wang, Biological Sciences Program. Graduated: 2004
- 1998-1999 Janice Huwe, Biological Sciences Program. Graduated: 1999
- 1998-2001 Stacy Weber, Biological Sciences Program. Graduated: 2003

Master's thesis committees:

- 1995 Tim Corba, Biological Sciences Program. Graduated: 1995

TRAINEES

Visiting scientists:

- 2023-2024 **Dr. Kyoung Ho Jo**
Post-doctoral Fellow, Department of Cell and Developmental Biology,
University of Michigan
- 2006 **Dr. Keqin Xie**
Professor and Director, Institute of Toxicology, School of Public Health,
Shandong University, Jinan, China

Research Scientists:

- 2022-present **Dr. Mehmet Yalvac**
Ph.D. Marmara University, 2011
- 2016-2020 **Dr. Atsuko Uchida**
Ph.D. Tokyo Institute of Technology, 2000
Present position: Assistant Professor, Human Science Center, Ibaraki
Prefectural University of Health Sciences, Ibaraki, Japan

Research Associates:

- 2010-2016 **Dr. Atsuko Uchida**
Ph.D. Tokyo Institute of Technology, 2000

Post-docs:

- 2024-present **Dr. Hannah Bailey**
Ph.D. University of California Los Angeles, 2024

- 2019-2020 **Dr. Nicholas P. Boyer**
Ph.D. University of North Carolina at Chapel Hill, 2019
- 2002-2006 **Dr. Atsuko Uchida**
Ph.D. Tokyo Institute of Technology, 2000
- 2004-2008 **Dr. Niraj Trivedi**
Ph.D. King's College, University of London, 2003
Present position: Research Lab Scientist with David Solecki, St. Jude Children's Research Hospital
- PhD students:*
- 2015-2020 **Elizabeth J. Stone**
B.S. University of North Carolina Wilmington, 2014
Neuroscience Program
- 2012-2018 **J. Daniel Fenn**
B.S. Brigham Young University, 2008
Ph.D. Ohio State University, 2018 (Medical Scientist Training Program)
Present position: Completing clinical training, Ohio State University College of Medicine
- 2007-2012 **Lina Wang**
B.S. Nankai University, China, 2005
Ph.D. Ohio State University, 2012 (Neuroscience Program)
Post-doc: Laboratory of Subhojit Roy, University of Wisconsin, Madison
Present position: Research Scientist, Amgen Inc.
- 2004-2009 **Nael Alami**
B.Sc. American University of Beirut, Lebanon, 2001
M.Sc. American University of Beirut, 2003
Ph.D. Ohio State University, 2009 (Molecular, Cellular and Developmental Biology Program)
Post doc: Laboratory of J. Paul Taylor, St. Jude Children's Research Hospital
Present position: VP for Research and Innovation Modern University for Business and Science (MUBS); Co-Founder and Managing Director, MECAT Education, Training & Consulting
- 2004-2009 **Gulsen Çolakoğlu**
B.S. The Middle East Technical University, Turkey, 2001
M.S. Bilkent University, Turkey, 2003
Ph.D. Ohio State University, 2009 (Molecular, Cellular and Developmental Biology Program)
Post doc: Laboratory of Barbara Ranscht, Sanford Burnham Institute, La Jolla
Present position: Research Associate in laboratory of Kang Shen, Stanford University

2000-2005 **Yanping Yan**
B.S. University of Science and Technology of China, 2000
Ph.D. Ohio State University, 2005 (Neuroscience Program)
Post-doc: Laboratory of Kendall Broadie, Vanderbilt University
Present position: Chief Operating Officer, Shantani Proteome Analytics,
Pune, India

1999-2001 **Lei Wang**
B.S. Beijing Medical University, 1997
Ph.D. Ohio University, 2004 (Program in Biological Sciences)
Post-doc: Elena Pasquale, Sanford Burnham Institute, La Jolla
Present position: Research Associate with Young-Goo Han, St. Jude
Children's Research Hospital

Master's students:

2014-2015 **Susan Foss**
B.S. Keene State College, 2010
Mathematical Sciences Program, Specialization in Mathematical Biology
(Co-advisor)

2013-2014 **Adaleigh E. Pritchard**
B.S. Missouri University of Science & Technology, 2012
Mathematical Sciences Program, Specialization in Mathematical Biology
(Co-advisor)

2012-2013 **Jamie A. Roderer**
B.S. Ohio State University, 2012
Molecular, Cellular and Developmental Biology Program

Undergraduate students:

2026-present **Maya Ganim**
OSU Health Sciences Honors Program

2026-present **Laiba Shabbir**
OSU Biochemistry major

2023-present **Claire Holecek**
OSU Neuroscience major

2023-present **Luke Berninger**
OSU Biomedical Sciences Honors Program

2023 **Krithika Dama**
OSU Neuroscience major

2022-2023 **Destiny Wilson**
OSU Neuroscience major

2022 **Noora Rajjoub**

- OSU Neuroscience major
- 2019-2022 **Sana Chahande**
OSU Neuroscience major
- 2019-2021 **Chloe Duger**
OSU Neuroscience major
- 2018-2020 **Alexandra Sheldon**
OSU Second-Year Transformational Experience (STEP) Program, Biology major
- 2017 **Rosamund Casimir-Brown**
OSU Summer Research Internship. Medical student from Cambridge University, England
- 2015-2016 **Maite Azcorra-Sedano**
OSU Study-abroad student from Universidad Autonoma de Madrid, Spain
- 2013-2016 **Mayuran Ravindran**
OSU Biomedical Sciences Honors Program and RUMBA (Research for Undergraduates: adventures in Mathematical Biology and its Applications) Program
- 2013 **Mary Csarny**
OSU Undergraduate Honors Program, Neuroscience major
- 2012 **Kyle Atcheson**
OSU Biomedical Sciences Honors Program
- 2010-2012 **Amrita Mukhopadhyay**
OSU Early Admissions Pathway to the MD Program
- 2009-2011 **Nicholas Taylor**
OSU Biomedical Sciences Honors Program
- 2000-2001 **Allison K Norwood**
Ohio University Biological Sciences Program
- 1997-1998 **Thomas J. Koehnle**
Ohio University Honors Tutorial College Program in Biological Sciences
- 1996-1998 **Andrea Velasco**
Ohio University Biological Sciences Program
- 1995-1996 **Ashu K. Goyle**
Ohio University Biological Sciences Program
- 1994-1995 **Scott Lilly**
Ohio University Biological Sciences Program

1994-1995 **Wendy Jenkins**
Ohio University Biological Sciences Program

1994 **George Laszlo**
Oberlin College Neuroscience Program

High school students:

2021-2022 **M’Kaia Trent**
Senior, Gahanna Lincoln High School, Columbus, OH

2019-2020 **Maddy Moroksy**
Senior, Wellington School, Columbus, OH

2017-2018 **Brianna Masters**
Senior, Wellington School, Columbus, OH

2016-2017 **Ellora Majumder**
Senior, Wellington School, Columbus, OH

2015 **Jacob McCorkle**
Senior, St. Charles Preparatory School, Columbus, OH

2014 **Michael Alban**
Senior, St. Charles Preparatory School, Columbus, OH

2012 **Michael Lipster**
Senior, METRO High School, Columbus Public Schools, Columbus, OH