Stanford



Amin Shakhawat

Instructor, Neurobiology

Bio

ACADEMIC APPOINTMENTS

- Instructor, Neurobiology

HONORS AND AWARDS

- Golden Synapse Cover Art Award, Memorial University of Newfoundland, St. John's, Newfoundland, Canada (2014)
- Golden Synapse Award for Outstanding PhD Student Presentation., Memorial University of Newfoundland, St. John's, Newfoundland, Canada (2014)
- R and D Systems Travel Award, Society for Neuroscience, Washington, DC, USA (2014)
- Graduate Chapter Travel Award, Society for Neuroscience, Washington, DC, USA (2014)
- Golden Synapse Award for Outstanding PhD Student Presentation., Memorial University of Newfoundland, St. John's, Newfoundland, Canada (2015)

PROFESSIONAL EDUCATION

- PhD, Memorial University of Newfoundland. Canada , Neuroscience (2016)
- M. Sc., Shahjalal University of Science and Technology, Sylhet, Bangladesh , Organic Chemistry (2003)
- B.Sc., Shahjalal University of Science and Technology, Sylhet, Bangladesh , Chemistry (2001)

Publications

PUBLICATIONS

- **Systemic pharmacological suppression of neural activity reverses learning impairment in a mouse model of Fragile X syndrome.** *eLife*
  Shakhawat, A. M., Foltz, J. G., Nance, A. B., Bhateja, J., Raymond, J. L.
  2024; 12
- **Systemic pharmacological suppression of neural activity reverses learning impairment in a mouse model of Fragile X syndrome.** *bioRxiv : the preprint server for biology*
  Shakhawat, A. M., Foltz, J. G., Nance, A. B., Bhateja, J., Raymond, J. L.
  2023
- **Population calcium responses of Purkinje cells in the oculomotor cerebellum driven by non-visual input.** *Journal of neurophysiology*
  Fanning, A., Shakhawat, A., Raymond, J. L.
  2021
- **Using Molecular Biology to Address Locus Coeruleus Modulation of Hippocampal Plasticity and Learning: Progress and Pitfalls** *HANDBOOK OF IN VIVO NEURAL PLASTICITY TECHNIQUES: A SYSTEMS NEUROSCIENCE APPROACH TO THE NEURAL BASIS OF MEMORY AND COGNITION*
  Harley, C. W., Shakhawat, A. M. D., Quinlan, M. A. L., Carew, S. J., Walling, S. G., Yuan, Q., Martin, G. M.
  edited by ManahanVaughan, D.

2018; 28: 349-364

- **Arc-Expressing Neuronal Ensembles Supporting Pattern Separation Require Adrenergic Activity in Anterior Piriform Cortex: An Exploration of Neural Constraints on Learning** *JOURNAL OF NEUROSCIENCE*
  Shakhawat, A. M. D., Gheidi, A., MacIntyre, I. T., Walsh, M. L., Harley, C. W., Yuan, Q.
  2015; 35 (41): 14070-14075

- **Visualizing the Engram: Learning Stabilizes Odor Representations in the Olfactory Network** *JOURNAL OF NEUROSCIENCE*
  Shalthawat, A. M. D., Gbeidi, A., Hou, Q., Dhillon, S. K., Marrone, D. F., Harley, C. W., Yuan, Q.
  2014; 34 (46): 15394-15401

- **Arc Visualization of Odor Objects Reveals Experience-Dependent Ensemble Sharpening, Separation, and Merging in Anterior Piriform Cortex in Adult Rat** *JOURNAL OF NEUROSCIENCE*
  Shakhawat, A., Harley, C. W., Yuan, Q.
  2014; 34 (31): 10206-10210

- **Mechanisms Underlying Early Odor Preference Learning in Rats** *ODOR MEMORY AND PERCEPTION*
  Yuan, Q., Shakhawat, A. M. D., Harley, C. W.
  edited by Barkai, E., Wilson, D. A.
  2014; 208: 115-156

- **Olfactory bulb alpha(2)-adrenoceptor activation promotes rat pup odor-preference learning via a cAMP-independent mechanism** *LEARNING & MEMORY*
  Shakhawat, A. M. D., Harley, C. W., Yuan, Q.
  2012; 19 (11): 499-502