

Zahra Dargaei

Postdoctoral Scholar, Molecular and Cellular Physiology

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Toronto (2017)
- Master of Science, Queen's University (2014)

Publications

PUBLICATIONS

- **Cortical interneuron-mediated inhibition delays the onset of amyotrophic lateral sclerosis** *BRAIN*
Khademullah, C., Aqrabawi, A. J., Place, K. M., Dargaei, Z., Liang, X., Pressey, J. C., Bedard, S., Yang, J., Garand, D., Keramidis, I., Gasecka, A., Cote, D., De Koninck, et al
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- **Alterations in Hippocampal Inhibitory Synaptic Transmission in the R6/2 Mouse Model of Huntington's Disease.** *Neuroscience*
Dargaei, Z. n., Liang, X. n., Serranilla, M. n., Santos, J. n., Woodin, M. A.
2019; 404: 130–40
- **Restoring GABAergic inhibition rescues memory deficits in a Huntington's disease mouse model** *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*
Dargaei, Z., Bang, J. Y., Mahadevan, V., Khademullah, C., Bedard, S., Parfitt, G. M., Kim, J., Woodin, M.
2018
- **Native KCC2 interactome reveals PACSIN1 as a critical regulator of synaptic inhibition** *eLife*
Mahadevan, V., Khademullah, C., Dargaei, Z., Chevrier, J., Pavel, U., Kwan, J., Bagshaw, R. D., Pawson, T., Emili, A., De Koninck, Y., Anggono, V., Airaksinen, M., Woodin, et al
2017; 6:e28270
- **A kainate receptor subunit promotes the recycling of the neuron-specific K⁺-Cl⁻ co-transporter KCC2 in hippocampal neurons** *Journal of Biological Chemistry*
Pressey, J. C., Mahadevan, V., Khademullah, C., Dargaei, Z., Chevrier, J., Ye, W., Huang, M., Chauhan, A. K., Meas, S. J., Uvarov, P., Airaksinen, M., Woodin, M. A.
2017; 292(15):6190-6201
- **Top-down modulation of olfactory-guided behaviours by the anterior olfactory nucleus pars medialis and ventral hippocampus** *Nature Communications*
Aqrabawi, A. J., Browne, C. J., Dargaei, Z., Garand, D., Khademullah, C., Woodin, M. A., Kim, J.
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- **Misregulation of an Activity-Dependent Splicing Network as a Common Mechanism Underlying Autism Spectrum Disorders** *Molecular Cell*
Quesnel-Vallières, M., Dargaei, Z., Irimia, M., Gonatopoulos-Pournatzis, T., Ip, J. Y., Wu, M., Sterne-Weiler, T., Nakagawa, S., Woodin, M. A., Blencowe, B. J., Cordes, S. P.
2016; 64(6):1023-1034
- **Neto2-null mice have impaired GABAergic inhibition and are susceptible to seizures** *Frontiers in Cellular Neuroscience*
Mahadevan, V., Dargaei, Z., Ivakine, E., Hartmann, A., Ng, D., Chevrier, J., Ormond, J., Nothwang, H. G., McInnes, R. R., Woodin, M. A.
2015; 23:9:368
- **Ca²⁺-induced uncoupling of Aplysia bag cell neurons** *Journal of Neurophysiology*

Dargaei, Z., Standage, D., Groten, C. J., Blohm, G., Magoski, N. S.
2015; 113(3):808-21

- **Electrical coupling between Aplysia bag cell neurons: characterization and role in synchronous firing** *Journal of Neurophysiology*

Dargaei, Z., Colmers, P. L., Hodgson, H. M., Magoski, N. S.
2014; 112(11):2680-96

- **Retinal region of polarization sensitivity switches during ontogeny of rainbow trout** *Journal of Neuroscience*

Sabbah, S., Habib-Nayany, M. F., Dargaei, Z., Hauser, F. E., Kamermans, M., Hawryshyn, C. W.
2013; 33(17):7428-38