



## Iason Keramidis

Postdoctoral Scholar, Biology

### Bio

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#### HONORS AND AWARDS

- Brain Star Award, Canadian Institutes of Health Research & Canadian Association for Neuroscience (2023)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Université Laval , Neuroscience (2023)
- Master of Science, National and Kapodistrian University of Athens , Molecular Medicine (2016)
- Bachelor of Science, University Of Patras , Biology (2014)

#### STANFORD ADVISORS

- Mark Schnitzer, Postdoctoral Faculty Sponsor

### Research & Scholarship

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#### LAB AFFILIATIONS

- Mark Schnitzer (8/1/2023)

### Publications

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#### PUBLICATIONS

- **Excessive inhibition in the medial prefrontal cortex contributes to cognitive susceptibility in aging.** *Neurobiology of disease*  
Keramidis, I., Desrosiers, P., Verreault, A. A., Sansonetti, R., Hazrati, R., Godin, A. G., De Koninck, Y.  
2026: 107385
- **Chronic optogenetic activation of hippocampal CA1 neurons triggers Alzheimer's disease-like proteomic remodeling** *ISCIENCE*  
Keramidis, I., Samiotaki, M., Sansonetti, R., Alonso, J., Desrosiers, P., Papanikolopoulou, K., De Koninck, Y.  
2025; 28 (10)
- **Neuro-Headstage with On-Chip Machine Learning and Wireless Charging for Closed-Loop Neurobiological Applications** *23rd IEEE Interregional NEWCAS Conference (NEWCAS)*  
Bilodeau, G., Gagnon-Turcotte, G., Hayati, H., Keramidis, I., De Koninck, Y., Gosselin, B.  
2025
- **Understanding the nervous system: lessons from Frontiers in Neurophotonics.** *Neurophotonics*  
De Koninck, Y., Alonso, J., Bancelin, S., Béïque, J. C., Bélanger, E., Bouchard, C., Canossa, M., Chaniot, J., Choquet, D., Crochetière, M. È., Cui, N., Danglot, L., De Koninck, et al  
2024; 11 (1): 014415
- **Restoring neuronal chloride extrusion reverses cognitive decline linked to Alzheimer's disease mutations.** *Brain : a journal of neurology*

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Keramidis, I., McAllister, B. B., Bourbonnais, J., Wang, F., Isabel, D., Rezaei, E., Sansonetti, R., Degagne, P., Hamel, J. P., Nazari, M., Inayat, S., Dudley, J. C., Barbeau, et al  
2023

- **An Adaptive and Autonomous System-On-Chip with Data Analysis for  $\mu$ s-Latency Closed-Loop Optogenetics** *IEEE Biomedical Circuits and Systems Conference (BioCAS)*  
Gagnon-Turcotte, G., Keramidis, I., De Koninck, Y., Gosselin, B.  
2023
- **A Wireless Electro-Optic Platform for Multimodal Electrophysiology and Optogenetics in Freely Moving Rodents.** *Frontiers in neuroscience*  
Bilodeau, G., Gagnon-Turcotte, G., Gagnon, L. L., Keramidis, I., Timofeev, I., De Koninck, Y., Ethier, C., Gosselin, B.  
2021; 15: 718478
- **Functional Interactions of Tau Phosphorylation Sites That Mediate Toxicity and Deficient Learning in *Drosophila melanogaster*.** *Frontiers in molecular neuroscience*  
Keramidis, I., Vourkou, E., Papanikolopoulou, K., Skoulakis, E. M.  
2020; 13: 569520
- **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  
2020; 143: 800–810
- **A Wireless Electro-Optic Headstage With a 0.13-  $\mu$ m CMOS Custom Integrated DWT Neural Signal Decoder for Closed-Loop Optogenetics.** *IEEE transactions on biomedical circuits and systems*  
Gagnon-Turcotte, G., Keramidis, I., Ethier, C., De Koninck, Y., Gosselin, B.  
2019; 13 (5): 1036-1051
- **The burden on public emergency departments during the economic crisis years in Greece: a two-center comparative study.** *Public health*  
Koutserimpas, C., Agouridakis, P., Velimezis, G., Papagiannakis, G., Keramidis, I., Ioannidis, A., Samonis, G.  
2019; 167: 16-20