Stanford



Iason Keramidis

Postdoctoral Scholar, Biology

Bio

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

LAB AFFILIATIONS

- Mark Schnitzer (8/1/2023)

Publications

PUBLICATIONS

- **Deterministic wet etching of aspheric fiber microlenses with tunable conic geometry for tailored optical functionality** *NATURE COMMUNICATIONS*
  Kim, S., Keramidis, I., Plasencia-Fernandez, I., Alonso, J., Brochoire, L., Bories, C., Barbeau, A., Messaddeq, Y., De Koninck, Y.
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- **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.
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- **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.
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- **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
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- **Restoring neuronal chloride extrusion reverses cognitive decline linked to Alzheimer's disease mutations.** *Brain : a journal of neurology*
  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
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- **An Adaptive and Autonomous System-On-Chip with Data Analysis for µs-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*
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  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- µm 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.
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