Stanford

Kiarash Shamardani

Ph.D. Student in Cancer Biology, admitted Summer 2019

Bio

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, Society for Neuro-Oncology (2020 - present)
- Member, American Academy of Neurology (2020 - present)
- Associate Member, American Association for Cancer Research (2019 - present)
- Member, Society for Neuroscience (2018 - present)

EDUCATION AND CERTIFICATIONS

- BA, University of California, Berkeley , Molecular and Cell Biology

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Interested in a systems neuroscience approach to understanding the interaction of tumor cells and their microenvironment in brain cancer. I am studying the neuron-glioma interactions at the circuit level to discern how patterns of activity within a neuron-glioma network influences the behavior of the cancer as a whole.

Publications

PUBLICATIONS

- **The logic of recurrent circuits in the primary visual cortex.** *Nature neuroscience*
  Oldenburg, I. A., Hendricks, W. D., Handy, G., Shamardani, K., Bounds, H. A., Doiron, B., Adesnik, H.
  2024
- **Glioma synapses recruit mechanisms of adaptive plasticity.** *Nature*
  Taylor, K. R., Barron, T., Hui, A., Spitzer, A., Yalcin, B., Ivec, A. E., Geraghty, A. C., Hartmann, G. G., Arzt, M., Gillespie, S. M., Kim, Y. S., Maleki Jahan, S., Zhang, et al
  2023
- **INVESTIGATING THE EVOLUTION OF NEURON-GLIOMA CIRCUIT DYNAMICS USING AN IN VIVO IMAGING METHOD**
  Shamardani, K., Keough, M., Monje, M.
  OXFORD UNIV PRESS INC.2023
- **Tumors on different wavelengths.** *Cancer cell*
  Shamardani, K., Monje, M.
  2023
- **GABAERGIC NEURON-TO-GLIOMA SYNAPSES IN DIFFUSE MIDLINE GLIOMAS**
  Barron, T., Yalcin, B., Mochizuki, A., Cantor, E., Shamardani, K., Tlais, D., Franson, A., Lyons, S., Mehta, V., Jahan, S., Taylor, K., Keough, M., Xu, et al

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- **Glioblastoma remodelling of human neural circuits decreases survival.** *Nature*
  Krishna, S., Choudhury, A., Keough, M. B., Seo, K., Ni, L., Kakaizada, S., Lee, A., Aabedi, A., Popova, G., Lipkin, B., Cao, C., Nava Gonzales, C., Sudharshan, et al
  2023

- **Mild respiratory COVID can cause multi-lineage neural cell and myelin dysregulation.** *Cell*
  Fernández-Castañeda, A., Lu, P., Geraghty, A. C., Song, E., Lee, M. H., Wood, J., O'Dea, M. R., Dutton, S., Shamardani, K., Nwangwu, K., Mancusi, R., Yalç#n, B., Taylor, et al
  2022

- **Applying Kern's Six Steps to the Development of a Community-Engaged, Just-in-Time, Interdisciplinary COVID-19 Curriculum.** *Journal of medical education and curricular development*
  Scala, J. J., Braun, N. J., Shamardani, K., Rashes, E. R., Wang, W., Mediratta, R. P.
  2022; 9: 23821205221096370

- **A silicon-rhodamine chemical-genetic hybrid for far red voltage imaging from defined neurons in brain slice** *RSC CHEMICAL BIOLOGY*
  Ortiz, G., Liu, P., Deal, P. E., Nensel, A. K., Martinez, K. N., Shamardani, K., Adesnik, H., Miller, E. W.
  2021

- **Covalently tethered rhodamine voltage reporters for high speed functional imaging in brain tissue.** *Journal of the American Chemical Society*
  Deal, P. E., Liu, P., Al-Abdullatif, S. H., Muller, V. R., Shamardani, K., Adesnik, H., Miller, E. W.
  2019

- **A Map of Toll-like Receptor Expression in the Intestinal Epithelium Reveals Distinct Spatial, Cell Type-Specific, and Temporal Patterns** *IMMUNITY*
  Price, A. E., Shamardani, K., Lugo, K. A., Deguine, J., Roberts, A. W., Lee, B. L., Barton, G. M.
  2018; 49 (3): 560-+

- **A neural circuit for gamma-band coherence across the retinotopic map in mouse visual cortex** *ELIFE*
  Hakim, R., Shamardani, K., Adesnik, H.
  2018; 7