Stanford



Konstantin Kaganovsky

Postdoctoral Scholar, Psychiatry

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

Publications

PUBLICATIONS

- **Developmental xenocortication using human-derived organoids in mice.** *Nature*
  Kaganovsky, K., Kelley, K. W., Gschwind, T., Harary, P. M., Kochalka, J., White, A. D., Lerma-Usabiaga, G., Chen, X., Revah, O., Gore, F., Aoyama, A., Shadrach, J. L., Yoon, et al
  2026

- **Astrocytes mediate the dopaminergic modulation of tonic GABAergic signaling in substantia nigra.** *Science advances*
  Simmons, D. V., Moreno-Ramos, O. A., Raj, D. D., Kaganovsky, K., Pamukcu, A., Vrieler, N., Tkatch, T., Xie, Z., de Sousa, A. I., Zampese, E., Ding, J., Awatramani, R., Wilson, et al
  2026; 12 (37): eadq8840

- **Hippocampal place code plasticity in CA1 requires postsynaptic membrane fusion.** *Neuron*
  Plitt, M. H., Kaganovsky, K., Say, E., Sosa, M., Südhof, T. C., Giocomo, L. M.
  2026

- **Generating human neural diversity with a multiplexed morphogen screen in organoids.** *Cell stem cell*
  Amin, N. D., Kelley, K. W., Kaganovsky, K., Onesto, M., Hao, J., Miura, Y., McQueen, J. P., Reis, N., Narazaki, G., Li, T., Kulkarni, S., Pavlov, S., Pașca, et al
  2024; 31 (12): 1831-1846.e9

- **Host circuit engagement of human cortical organoids transplanted in rodents.** *Nature protocols*
  Kelley, K. W., Revah, O., Gore, F., Kaganovsky, K., Chen, X., Deisseroth, K., Pașca, S. P.
  2024

- **Antisense oligonucleotide therapeutic approach for Timothy syndrome.** *Nature*
  Chen, X., Birey, F., Li, M. Y., Revah, O., Levy, R., Thete, M. V., Reis, N., Kaganovsky, K., Onesto, M., Sakai, N., Hudacova, Z., Hao, J., Meng, et al
  2024; 628 (8009): 818-825

- **Hippocampal place code plasticity in CA1 requires postsynaptic membrane fusion.** *bioRxiv : the preprint server for biology*
  Plitt, M. H., Kaganovsky, K., Südhof, T. C., Giocomo, L. M.
  2023

- **Motor Impairments and Dopaminergic Defects Caused by Loss of Leucine-Rich Repeat Kinase 2 Function in Mice.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Huang, G., Bloodgood, D. W., Kang, J., Shahapal, A., Chen, P., Kaganovsky, K., Kim, J., Ding, J., Shen, J.
  2022

- **Functional and molecular heterogeneity of D2R neurons along dorsal ventral axis in the striatum.** *Nature communications*
  Puighermanal, E. n., Castell, L. n., Esteve-Codina, A. n., Melser, S. n., Kaganovsky, K. n., Zussy, C. n., Boubaker-Vitre, J. n., Gut, M. n., Rialle, S. n., Kellendonk, C. n., Sanz, E. n., Quintana, A. n., Marsicano, et al
  2020; 11 (1): 1957

- **Punishment of alcohol-reinforced responding in alcohol preferring P rats reveals a bimodal population: Implications for models of compulsive drug seeking** *PROGRESS IN NEURO-PSYCHOPHARMACOLOGY & BIOLOGICAL PSYCHIATRY*
  Marchant, N. J., Campbell, E. J., Kaganovsky, K.
  2018; 87: 68–77

- **The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival** *CELL*
  Maeder, C. I., Kim, J., Liang, X., Kaganovsky, K., Shen, A., Li, Q., Li, Z., Wang, S., Xu, X., Li, J., Xiang, Y., Ding, J. B., Shen, et al
  2018; 174 (6): 1436-+

- **The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival.** *Cell*
  Maeder, C. I., Kim, J., Liang, X., Kaganovsky, K., Shen, A., Li, Q., Li, Z., Wang, S., Xu, X. Z., Li, J. B., Xiang, Y. K., Ding, J. B., Shen, et al
  2018

- **Cue-induced food seeking after punishment is associated with increased Fos expression in the lateral hypothalamus and basolateral and medial amygdala.** *Behavioral neuroscience*
  Campbell, E. J., Barker, D. J., Nasser, H. M., Kaganovsky, K., Dayas, C. V., Marchant, N. J.
  2017; 131 (2): 155-67

- **The Locomotion Tug-of-War: Cholinergic and Dopaminergic Interactions Outside the Striatum.** *Neuron*
  Kaganovsky, K. n., Ding, J. B.
  2017; 96 (6): 1208–10

- **How Do Microtubule Dynamics Relate to the Hallmarks of Learning and Memory?** *JOURNAL OF NEUROSCIENCE*
  Kaganovsky, K., Wang, C.
  2016; 36 (22): 5911–13

- **Role of Ventral Subiculum in Context-Induced Relapse to Alcohol Seeking after Punishment-Imposed Abstinence.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Marchant, N. J., Campbell, E. J., Whitaker, L. R., Harvey, B. K., Kaganovsky, K., Adhikary, S., Hope, B. T., Heins, R. C., Prisinzano, T. E., Vardy, E., Bonci, A., Bossert, J. M., Shaham, et al
  2016; 36 (11): 3281-94

- **A critical role of nucleus accumbens dopamine D1-family receptors in renewal of alcohol seeking after punishment-imposed abstinence.** *Behavioral neuroscience*
  Marchant, N. J., Kaganovsky, K.
  2015; 129 (3): 281-91

- **A critical role of lateral hypothalamus in context-induced relapse to alcohol seeking after punishment-imposed abstinence.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Marchant, N. J., Rabei, R., Kaganovsky, K., Caprioli, D., Bossert, J. M., Bonci, A., Shaham, Y.
  2014; 34 (22): 7447-57