Stanford

Jalal Kenji Baruni

Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia**

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Bio

CLINICAL FOCUS

- Anesthesiology
- Pain Medicine

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

PROFESSIONAL EDUCATION

- Board Certification: Anesthesiology, American Board of Anesthesiology (2025)
- Residency: Stanford University Anesthesiology Residency (2021) CA
- Internship: Stanford University Internal Medicine Residency (2018) CA
- Medical Education: Columbia University College of Physicians and Surgeons (2017) NY

Publications

PUBLICATIONS

- **Architecture of the serotonergic projectome in the mouse brain.** *Cell*

  Song, J. H., Friedmann, D., Wu, Y., Moses, A., Baruni, J. K., Yuan, Y., Rana, I., Zhao, K., Hindmarsh Sten, T., Wang, Q., Xiao, S. A., Chen, X., Linderman, et al

  2026

- **Projectomic Organization of the Serotonin System of the Mouse Brain.** *bioRxiv : the preprint server for biology*

  Song, J. H., Friedmann, D., Wu, Y., Moses, A., Baruni, J. K., Yuan, Y., Rana, I., Zhao, K., Sten, T. H., Wang, Q., Xiao, S. A., Chen, X., Linderman, et al

  2026

- **Mouse lemur cell atlas informs primate genes, physiology and disease.** *Nature*

  Ezran, C., Liu, S., Chang, S., Ming, J., Guethlein, L. A., Wang, M. F., Dehghannasiri, R., Olivieri, J., Frank, H. K., Tarashansky, A., Koh, W., Jing, Q., Botvinnik, et al

  2025

- **A molecular cell atlas of mouse lemur, an emerging model primate.** *Nature*

  Ezran, C., Liu, S., Chang, S., Ming, J., Botvinnik, O., Penland, L., Tarashansky, A., de Morree, A., Travaglini, K. J., Zhao, J., Wang, G., Hasegawa, K., Sin, et al

2025

- **Homeostatic Signal Convergence in Vagal Baroreceptors.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*
  Baruni, J. K.
  2024; 44 (28)

- **An organism-wide atlas of hormonal signaling based on the mouse lemur single-cell transcriptome.** *Nature communications*
  Liu, S., Ezran, C., Wang, M. F., Li, Z., Awayan, K., Long, J. Z., De Vlaminck, I., Wang, S., Epelbaum, J., Kuo, C. S., Terrien, J., Krasnow, M. A., Ferrell, et al
  2024; 15 (1): 2188

- **Illuminating complexity in serotonin neurons of the dorsal raphe nucleus.** *Neuron*
  Baruni, J., Luo, L.
  2022; 110 (16): 2519-2521

- **Reward expectation differentially modulates attentional behavior and activity in visual area V4.** *Nature neuroscience*
  Baruni, J. K., Lau, B., Salzman, C. D.
  2015; 18 (11): 1656-63

- **Cytokinetic furrowing in toroidal, binucleate and anucleate cells in C. elegans embryos.** *Journal of cell science*
  Baruni, J. K., Munro, E. M., von Dassow, G.
  2008; 121 (Pt 3): 306-16