Stanford



Airi Yoshimoto

Postdoctoral Scholar, Biology

Bio

HONORS AND AWARDS

- Jane Coffin Childs Memorial Fund Fellow, Jane Coffin Childs Memorial Fund (2026/6)
- Leading Edge Fellow, Leading Edge Symposium (2026/6)
- NINDS Ruth L. Kirschstein National Research Service Award, NIH NINDS (National Institute of Neurological Disorders and Stroke) (2026/6)
- Inoue Research Award for Young Scientists, Inoue Foundation for Science (2026/2)
- L'Oréal-UNESCO For Women in Science, L'Oréal and the United Nations Educational, Scientific and Cultural Organization (UNESCO) (2025/9)
- Marie Sklodowska Curie Award, Japan Science and Technology Agency (2025/6)
- The Japanese Pharmacological Society 100th Anniversary Doctoral Research Encouragement Award, The Japanese Pharmacological Society (2025/3)
- The University of Tokyo President's Award, The University of Tokyo (2025/3)
- JSPS Ikushi Prize, Japan Society for the Promotion of Science (2025/1)
- Toshihiko Tokizane Memorial Award for Excellent Graduate Study in Neuroscience, the Japan Neuroscience Society (2023/8)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Elected Fellow, Stanford Pathways to Neuroscience Leadership Training Program (2025 - present)
- Elected Member, the Wu Tsai Neurosciences Institute Executive Committee (2025 - present)

STANFORD ADVISORS

- Liqun Luo, Postdoctoral Faculty Sponsor

LINKS

- Luo Lab: https://luolab.stanford.edu/
- researchmap: https://researchmap.jp/airiyoshimoto?lang=en
- linkedin: https://www.linkedin.com/in/airi-yoshimoto-089057167/
- Bluesky: https://bsky.app/profile/airiyoshimoto.bsky.social
- X: https://x.com/airisyoshimoto

Publications

PUBLICATIONS

- **Direct excitatory loop and theta resonance in the anterior cingulate-mediodorsal thalamic circuit.** *Communications biology*
  Yoshimoto, A., Morikawa, S., Takeuchi, H., Ikegaya, Y.

2025; 8 (1): 981

- **Top-down brain circuits for operant bradycardia.** *Science (New York, N.Y.)*
  Yoshimoto, A., Morikawa, S., Kato, E., Takeuchi, H., Ikegaya, Y.
  2024; 384 (6702): 1361-1368
- **Low Atmospheric Oxygen Attenuates Alpha Oscillations in the Primary Motor Cortex of Awake Rats.** *Biological & pharmaceutical bulletin*
  Kawamura, M., Yoshimoto, A., Ikegaya, Y., Matsumoto, N.
  2024; 47 (2): 462-468
- **Low Atmospheric Oxygen Attenuates Alpha Oscillations in the Primary Motor Cortex of Awake Rats** *BIOLOGICAL & PHARMACEUTICAL BULLETIN*
  Kawamura, M., Yoshimoto, A., Ikegaya, Y., Matsumoto, N.
  2024; 47 (2): 462-468
- **An open-source application to identify the three-dimensional locations of electrodes implanted into the rat brain from computed tomography images.** *Neuroscience research*
  Kudara, M., Matsumoto, N., Kuga, N., Yamashiro, K., Yoshimoto, A., Ikegaya, Y., Sasaki, T.
  2023; 193: 20-27
- **Mesolimbic dopamine release precedes actively sought aversive stimuli in mice.** *Nature communications*
  Yawata, Y., Shikano, Y., Ogasawara, J., Makino, K., Kashima, T., Ihara, K., Yoshimoto, A., Morikawa, S., Yagishita, S., Tanaka, K. F., Ikegaya, Y.
  2023; 14 (1): 2433
- **Enhancement of Motor Cortical Gamma Oscillations and Sniffing Activity by Medial Forebrain Bundle Stimulation Precedes Locomotion.** *eNeuro*
  Yoshimoto, A., Shibata, Y., Kudara, M., Ikegaya, Y., Matsumoto, N.
  2022; 9 (4)
- **Delayed reinforcement hinders subsequent extinction.** *Biochemical and biophysical research communications*
  Shibata, Y., Yoshimoto, A., Yamashiro, K., Ikegaya, Y., Matsumoto, N.
  2022; 591: 20-25
- **Acute Ramelteon Treatment Maintains the Cardiac Rhythms of Rats during Non-REM Sleep.** *Biological & pharmaceutical bulletin*
  Yoshimoto, A., Yamashiro, K., Ikegaya, Y., Matsumoto, N.
  2021; 44 (6): 789-797
- **Ramelteon modulates gamma oscillations in the rat primary motor cortex during non-REM sleep.** *Journal of pharmacological sciences*
  Yoshimoto, A., Yamashiro, K., Suzuki, T., Ikegaya, Y., Matsumoto, N.
  2021; 145 (1): 97-104