

Xitong Liang 梁希同

Lui Che Woo Building, Peking University
No.5 Yiheyuan Road, Haidian District
Beijing, P.R.China 100871

Email: xitong.liang@pku.edu.cn
Website: <http://liangx.weebly.com/>
Phone: +86-18559288399

Born 14 May 1991 in Xiamen, Fujian, China

Nationality: China

Education

- 2013 - 2018 Ph.D. in Neuroscience, Washington University in St. Louis, USA
Advisors: Dr. Paul Taghert and Dr. Timothy Holy
2009 - 2013 B.Sc. in Biology, Peking University, Beijing, China
Advisor: Dr. Yi Zhong (Tsinghua University)

Professional Experience

- 2022 - Assistant Professor, School of Life Sciences, Peking University, Beijing, China.
2022 - Investigator, IDG/McGovern Institute for Brain Research, Peking University
2022 - Investigator, Peking-Tsinghua Center for Life Sciences
2019 - 2022 Postdoctoral Associate, Max Planck Institute for Brain Research, Frankfurt, Germany (Advisor: Prof. Dr. Gilles Laurent)

Honors and Awards

- 2022 Yifang Investigator
2022 Excellent Young Scientists Fund (Overseas), NSFC
2019 Best Talk, Chinese Association for Psychological & Brain Sciences Meeting
2018 Wu Tsai Neurosciences Institute Interdisciplinary Scholar Award (declined)
2017 Spencer T. and Ann W. Olin Medical Scientist Fellow
2017 James L. O'Leary Prize for Excellence in Neuroscience Research
2016 Chinese Government Award for Outstanding Self-Financed Students Abroad
2016 Thach Award for Best Trainee Talk at Neuroscience Retreat
2016 Ron Konopka Excellence Award, Society for Research in Biological Rhythms

Publications

- (*equal contribution)
1. **Liang, X.***, Woo, T.*, Evans, D., Fernandez, O., Kretschmer, F., Reiter, S., & Laurent, G. (2023). Visual texture-matching search in camouflaging cuttlefish. *Nature* (under revision).
 2. Vernier, C.L., Leitner, N., Zelle, K.M., Foltz, M., Dutton, S., **Liang, X.**, Halloran, S., Millar, J.G., Ben-Shahar, Y., A pleiotropic chemoreceptor facilitates the production and perception of mating pheromones, *iScience* (2023), doi: <https://doi.org/10.1016/j.isci.2022.105882>
 3. **Liang, X.**, Holy, T. E., & Taghert, P. H. (2023). Polyphasic circadian neural circuits drive differential activities in multiple downstream rhythmic centers. *Current Biology* (in press).
 4. **Liang, X.**, Holy, T. E., & Taghert, P. H. (2022). [Circadian pacemaker neurons display co-phasic rhythms in basal calcium level and in fast calcium fluctuations](#). *Proceedings of the National Academy of Sciences USA*, 119(17).
 5. **Liang, X.**, Ho, M. C., Zhang, Y., Li, Y., Wu, M. N., Holy, T. E., & Taghert, P. H. (2019). [Morning and evening circadian pacemakers independently drive premotor centers via a](#)

- [specific dopamine relay](#). *Neuron*, 102(4), 843-857. [Preview](#) in the same issue of *Neuron*.
6. Liang, X., Holy, T. E., & Taghert, P. H. (2017). [A series of suppressive signals within the *Drosophila* circadian neural circuit generates sequential daily outputs](#). *Neuron*, 94(6), 1173–1189. [Preview](#) in the same issue of *Neuron*.
 7. Klose, M.*, Duvall, L. B.*, Li, W.*, Liang, X., Ren, C., Steinbach, J. H., & Taghert, P. H. (2016). Functional PDF signaling in the *Drosophila* circadian neural circuit is gated by RalA dependent modulation. *Neuron*, 90(4), 781-794.
 8. Li, Q.*, Zhang, X.*, Hu, W.*, Liang, X.*, Zhang, F., Wang, L., Liu, Z.J., & Zhong, Y. (2016). Importin-7 mediates memory consolidation through regulation of nuclear translocation of training-activated MAPK in *Drosophila*. *Proceedings of the National Academy of Sciences USA*, 113(11), 3072-3077.
 9. Liang, X., Holy, T. E., & Taghert, P. H. (2016). [Synchronous *Drosophila* circadian pacemakers display nonsynchronous Ca²⁺ rhythms in vivo](#). *Science*, 351(6276), 976-981. [Recommended by F1000](#).

Invited Talks

- | | |
|---------|---|
| 2022.11 | Department of Ocean Science, Hong Kong University of Science and Technology |
| 2022.9 | Department of Animal Physiology, University of Kassel, Germany. |
| 2022.8 | Chinese Genomics Meet-up online. |
| 2022.6 | Center for Brain & Disease Research, VIB-KU Leuven, Belgium. |
| 2021.9 | Department of Biology, University of Copenhagen, Denmark. |
| 2021.8 | 2nd AsiaEvo Conference. |
| 2021.6 | Max Planck Chinese Scholar Association Webinar. |
| 2020.9 | Keynote lecture, CephRes2020: Biology and Life History of Cephalopods. |
| 2018.10 | <i>Drosophila</i> Interest Group meeting, Janelia, VA, USA. |
| 2018.6 | Department of Neuroscience Retreat, Washington Univ., MO, USA. |
| 2016.1 | School of Life Sciences, Peking University, Beijing, China. |

Conference Presentations

- | | |
|---------|--|
| 2022.7 | Talk, International Congress of Neuroethology, Lisbon, Portugal. |
| 2022.4 | Talk, Cephalopod International Advisory Council, Sesimbra, Portugal. |
| 2021.3 | Talk, 14th Göttingen Meeting of the German Neuroscience Society. |
| 2020.11 | Talk, Chinese Association for Psychological & Brain Sciences Meeting. |
| 2019.11 | Talk, Chinese Association for Psychological & Brain Sciences Meeting, NL. |
| 2018.7 | Talk, International Congress of Neuroethology, Brisbane, Australia. |
| 2017.10 | Talk, Junior Scientist Workshop on Neural Circuits and Behavior, Janelia, USA. |
| 2017.7 | Talk & poster, Chronobiology Gordon Research Conference, VT, USA. |
| 2016.9 | Talk, Neuroscience Retreat, Washington University, MO, USA. |
| 2016.5 | Talk, Society for Research on Biological Rhythms Meeting, FL, USA. |
| 2015.10 | Poster, Neurobiology of <i>Drosophila</i> Meeting, CSHL, NY, USA. |

Science Communication and Outreach

- | | |
|------------|---|
| 2021 | Book chapters: The origin of nervous system (pp. 44-53); The structure of ant society (pp. 92-103). In <i>Front vision: animals, for company of human</i> (Chinese) |
| 2021 | Lecture “ Metamorphoses of cuttlefish ” in YiXi (一席) |
| 2020 | Lecturer for “Meet the science” in St. Angela high school |
| 2017 - now | Contributing writer for science media <i>Intellectual</i> (知识分子) |