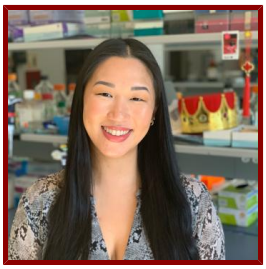
Stanford



Lianna Wat

Postdoctoral Scholar, Neurobiology

Bio

BIO

Lianna obtained her Ph.D. in Cell and Developmental Biology in Dr. Elizabeth Rideout's lab at the University of British Columbia in 2021 where she studied the sex-specific regulation of fat metabolism using Drosophila as a model system. Lianna is bringing her expertise on sex differences and fat metabolism to the Svensson lab where she is interested in understanding in discovering secreted metabolic effectors that regulate male-female differences in energy metabolism and the development of metabolic disease

HONORS AND AWARDS

- American Heart Association Postdoctoral Fellowship, American Heart Association (2024-2025)
- Larry Sandler Memorial Award, Genetics Society of America (2022-2023)
- Elizabeth Young New Investigator Award, Organization for the Study of Sex Differences (2021-2022)
- Laura G. Jasch Memorial Prize, University of British Columbia (2021-2022)
- Canadian Institutes of Health Research Gold Award of Excellence, Canadian Institutes of Health Research (2020-2021)
- Canadian Institutes of Health Research Sex & Gender Science Chair in Genetics Conference Award, Canadian Institutes of Health Research (2020-2021)
- Gairdner Student Award, Canadian Institutes of Health Research (2020-2021)
- Lindau Scholar Award, Canadian Institutes of Health Research (2020-2021)
- University of British Columbia 1-Year CELL Fellowship, University of British Columbia (2020-2021)
- British Columbia Graduate Scholarship, Government of British Columbia (2019-2020)
- Raymond A. Pederson Prize in Physiology, University of British Columbia (2018-2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Genetics Society of America (2020 - present)
- Member, University of British Columbia - Women's Health Research Cluster (2021 - present)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of British Columbia (2022)
- Bachelor of Science, Unlisted School (2016)
- PhD, The University of British Columbia , Cell and Developmental Biology (2021)
- BSc, McMaster University , Honours Biology & Psychology (2016)

STANFORD ADVISORS

- Thomas Clandinin, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Katrin Svensson, Svensson (3/7/2022)

Publications

PUBLICATIONS

- **PTER is a N-acetyltaurine hydrolase that regulates feeding and obesity.** *Nature*
  Wei, W., Lyu, X., Markhard, A. L., Fu, S., Mardjuki, R. E., Cavanagh, P. E., Zeng, X., Rajniak, J., Lu, N., Xiao, S., Zhao, M., Moya-Garzon, M. D., Truong, et al
  2024

- **Protocol for invivo measurement of basal and insulin-stimulated glucose uptake in mouse tissues.** *STAR protocols*
  Zhao, M., Wat, L. W., Svensson, K. J.
  2023; 4 (2): 102179

- **Rapid and accurate deorphanization of ligand-receptor pairs using AlphaFold.** *bioRxiv : the preprint server for biology*
  Danneskiold-Samsøe, N. B., Kavi, D., Jude, K. M., Nissen, S. B., Wat, L. W., Coassolo, L., Zhao, M., Santana-Oikawa, G. A., Broido, B. B., Garcia, K. C., Svensson, K. J.
  2023

- **A low sugar diet enhances Drosophila body size in males and females via sex-specific mechanisms.** *Development (Cambridge, England)*
  Millington, J. W., Biswas, P., Chao, C., Xia, Y. H., Wat, L. W., Brownrigg, G. P., Sun, Z., Basner-Collins, P. J., Geltink, R. I., Rideout, E. J.
  2022

- **Sex determination gene transformer regulates the male-female difference in Drosophila fat storage via the adipokinetic hormone pathway** *ELIFE*
  Wat, L. W., Chowdhury, Z. S., Millington, J. W., Biswas, P., Rideout, E. J.
  2021; 10

- **Female-biased upregulation of insulin pathway activity mediates the sex difference in Drosophila body size plasticity** *ELIFE*
  Millington, J. W., Brownrigg, G. P., Chao, C., Sun, Z., Basner-Collins, P. J., Wat, L. W., Hudry, B., Miguel-Aliaga, I., Rideout, E. J.
  2021; 10

- **A role for triglyceride lipase brummer in the regulation of sex differences in Drosophila fat storage and breakdown** *PLOS BIOLOGY*
  Wat, L. W., Chao, C., Bartlett, R., Buchanan, J. L., Millington, J. W., Chih, H., Chowdhury, Z. S., Biswas, P., Huang, V., Shin, L. J., Wang, L., Gauthier, M. L., Barone, et al
  2020; 18 (1): e3000595