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Group Leader (7/2022 –), 4D Cellular Physiology
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EDUCATION AND TRAINING

4/2020 – 6/2022 Postdoctoral Fellow in Immunology, Stanford University
Advisor: Prof. Mark M. Davis

9/2014 – 4/2020 Ph.D. in Biology, Stanford University
Advisor: Prof. Liqun Luo

9/2010 – 6/2014 B.S. in Biology (*highest honor*), Zhiyuan College of Shanghai Jiao Tong University
Advisor: Prof. Yuh-Nung Jan (University of California, San Francisco)

PUBLICATIONS

Shuster SA, Li J, Chon U, Sinantha-Hu MC, Luginbuhl DJ, Udeshi ND, Carey DK, Takeo YH, Xie Q, Xu C, Mani DR, Han S, Ting AY, Carr SA, and Luo L (2022).

In situ cell-type-specific cell-surface proteomic profiling in mice
Neuron, 110(23), 3882-3896.

Xie Q, Li J, Li H, Udeshi ND, Svinkina T, Orlin D, Kohani S, Guajardo R, Mani DR, Xu C, Li T, Han S, Wei W, Shuster SA, Luginbuhl DJ, Quake SR, Murthy SE, Ting AY, Carr SA, and Luo L (2022).

Transcription Factor Acj6 Controls Dendrite Targeting via A Combinatorial Cell-Surface Code
Neuron, 110(14), 2299-2314.

Li J, Zaslavsky M, Su Y, Guo J, Sikora MJ, van Unen V, Christophersen A, Chiou SH, Chen L, Li J, Ji X, Wilhelmy J, McSween AM, Palanski BA, Mallajosyula VVA, Bracey NA, Dhondalay GKR, Bhamidipati K, Pai J, Kipp LB, Dunn JE, Hauser SL, Oksenberg JR, Satpathy AT, Robinson WH, Dekker CL, Steinmetz LM, Khosla C, Utz PJ, Sollid LM, Chien YH, Heath JR, Fernandez-Becker NQ, Nadeau KC, Saligrama N, and Davis MM (2022).

KIR+CD8+ T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19
Science, 376 (6590).

Li H, Janssens J, De Waegeneer M, Kolluru SS, Davie K, Gardeux V, Saelens W, David FPA, Brbić M, Spanier K, Leskovec J, McLaughlin CN, Xie Q, Jones RC, Brueckner K, Shim J, Tattikota SG, Schnorrer F, Rust K, Nystul TG, Carvalho-Santos Z, Ribeiro C, Pal S, Mahadevaraju S, Przytycka TM, Allen AM, Goodwin SF, Berry CW, Fuller MT, White-Cooper H, Matunis EL, DiNardo S, Galenza A, O'Brien LE, Dow JAT, FCA Consortium, Jasper H, Oliver B, Perrimon N, Deplancke B, Quake SR, Luo L, and Aerts S (2022).

Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly
Science, 375 (6584).

McLaughlin CN, Brbic M, Xie Q, Li T, Horns F, Kolluru SS, Kebschull JM, Vacek D, Xie A, Li J, Jones RC, Leskovec J, Quake SR, Luo L, and Li H (2021).

Single-cell transcriptomes of developing and adult olfactory receptor neurons in *Drosophila*
eLife, 10, e63856.

Xie Q, Brbic M, Horns F, Kolluru SS, Jones RC, Li J, Reddy A, Xie A, Kohani S, Li Z, McLaughlin CN, Li T, Xu C, Vacek D, Luginbuhl DJ, Leskovec J, Quake SR, Luo L, and Li H (2021).

Temporal evolution of single-cell transcriptomes of *Drosophila* olfactory projection neurons
eLife, 10, e63450.

Li J and Luo L (2020).

Nurturing Undergraduate Researchers in Biomedical Sciences
Cell, 182(1), 1-4.

Li J, Han S, Li H, Udeshi ND, Svinkina T, Mani DR, Xu C, Guajardo R, Xie Q, Li T, Luginbuhl DJ, Wu B, McLaughlin CN, Xie A, Kaewsapsak P, Quake SR, Carr SA, Ting AY, and Luo L (2020).

Cell-Surface Proteomic Profiling in the Fly Brain Uncovers Wiring Regulators
Cell, 180(2), 373-386.

Li H, Li T, Horns F, Li J, Xie Q, Xu C, Wu B, Kebschull JM, McLaughlin CN, Kolluru SS, Jones RC, Vacek D, Xie A, Luginbuhl DJ, Quake SR, and Luo L (2020).

Single-Cell Transcriptomes Reveal Diverse Regulatory Strategies for Olfactory Receptor Expression and Axon Targeting
Current Biology, 30(7), 1189-1198.

Xie Q, Wu B, Li J, Xu C, Li H, Luginbuhl DJ, Wang X, Ward A, and Luo L (2019).

Transsynaptic Fish-lips signaling prevents misconnections between nonsynaptic partner olfactory neurons
Proceedings of the National Academy of Sciences, 116(32), 16068-16073.

Guajardo R, Luginbuhl DJ, Han S, Luo L, and Li J (2019).

Functional divergence of Plexin B structural motifs in distinct steps of *Drosophila* olfactory circuit assembly
eLife, 8, e48594.

Li H, Shuster SA, Li J, and Luo L (2018).

Linking neuronal lineage and wiring specificity
Neural development, 13(1), 5.

Li J, Guajardo R, Xu C, Wu B, Li H, Li T, Luginbuhl DJ, Xie X, and Luo L (2018).

Stepwise wiring of the *Drosophila* olfactory map requires specific Plexin B levels
eLife, 7, e39088.

Han S, Li J, and Ting AY (2018).

Proximity labeling: spatially resolved proteomic mapping for neurobiology
Current opinion in neurobiology, 50, 17-23.

Li H, Horns F, Wu B, Xie Q, Li J, Li T, Luginbuhl DJ, Quake SR, and Luo L (2017).
Classifying Drosophila olfactory projection neuron subtypes by single-cell RNA sequencing
Cell, 171(5), 1206-1220.

Li J and Luo L (2017).
A bitter-sweet symphony
Nature, 548(7667), 285.

Wu B, Li J, Chou YH, Luginbuhl D, and Luo L (2017).
Fibroblast growth factor signaling instructs ensheathing glia wrapping of Drosophila olfactory glomeruli
Proceedings of the National Academy of Sciences, 114(29), 7505-7512.

Dufault-Thompson K, Jian H, Cheng R, Li J, Wang F, and Zhang Y (2017).
A genome-scale model of Shewanella piezotolerans simulates mechanisms of metabolic diversity and energy conservation
mSystems, 2(2), e00165-16.

Li J, Zhang W, Guo Z, Wu S, Jan LY, and Jan YN (2016).
A defensive kicking behavior in response to mechanical stimuli mediated by Drosophila wing margin bristles
Journal of Neuroscience, 36(44), 11275-11282.

Guo Y, Wang Y, Zhang W, Meltzer S, Zanini D, Yu Y, Li J, Cheng T, Guo Z, Wang Q, Jacobs JS, Sharma Y, Eberl DF, Göpfert MC, Jan LY, Jan YN, and Wang Z (2016).
Transmembrane channel-like (tmc) gene regulates Drosophila larval locomotion
Proceedings of the National Academy of Sciences, 113(26), 7243-7248.

Zhang W, Cheng LE, Kittelmann M, Li J, Petkovic M, Cheng T, Jin P, Guo Z, Göpfert MC, Jan LY, and Jan YN (2015).
Ankyrin repeats convey force to gate the NOMPC mechanotransduction channel
Cell, 162(6), 1391-1403.

Gao XJ, Riabinina O, Li J, Potter CJ, Clandinin TR, and Luo L (2015).
A transcriptional reporter of intracellular Ca²⁺ in Drosophila
Nature neuroscience, 18(6), 917.

Ma Y, Nie H, Chen H, Li J, Hong Y, Wang B, Wang C, Zhang J, Cao W, Zhang M, Xu Y, Ding X, Yin SK, Qu X, and Ying W (2015).
NAD⁺/NADH metabolism and NAD⁺-dependent enzymes in cell death and ischemic brain injury: current advances and therapeutic implications
Current medicinal chemistry, 22(10), 1239-1247.

Li S, Hsu DD, Li B, Luo X, Alderson N, Qiao L, Ma L, Zhu HH, He Z, Suino-Powell K, Ji K, Li J, Shao J, Xu HE, Li T, and Feng GS (2014).

Cytoplasmic tyrosine phosphatase Shp2 coordinates hepatic regulation of bile acid and FGF15/19 signaling to repress bile acid synthesis

Cell metabolism, 20(2), 320-332.

PATENT

Zhang Y, Li J, and Xiao X (2014).

A microbial culture reaction system (CN203947097U).

AWARDS

- 2020 Sammy Kuo Award in Neuroscience, Stanford University
- 2020 Postdoctoral Fellowship, Jane Coffin Childs Memorial Fund for Medical Research
- 2020 Taihe Lectureship, Tongji University School of Medicine
- 2018 Vanessa Kong-Kertzner Graduate Fellowship, Stanford University
- 2017 Genentech Foundation Predoctoral Fellowship, Genentech Foundation
- 2014 Valedictorian, Zhiyuan College of Shanghai Jiao Tong University
- 2014 Top 1% Thesis, Shanghai Jiao Tong University
- 2014 Outstanding Graduates of 2014, The City of Shanghai
- 2013 National Scholarship, Ministry of Education of the P. R. China

SEMINARS AND MEETING TALKS

SCBA DC-Baltimore Annual Scientific Symposium (2022), HHMI Janelia Conference: 4D Cellular Physiology Symposium (2022), University of Virginia (2022), Memorial Sloan Kettering Cancer Center (2022), Brigham Young University (2022), ImmuneZoom (2022), CSHL Meeting: Molecular Mechanisms of Neuronal Connectivity (2022), Baylor College of Medicine (2022), ASBMB: Mass Spectrometry in the Health and Life Sciences (2022), ACACR Annual Meeting Seminar Series (2022), SCBA International Symposium (2022), NeuroZoom (2022), Shanghai Jiao Tong University (2022), Alector (2022), Tongji University (2020), National Center for Protein Sciences, State Key Laboratory of Proteomics, China (2020), Shanghai Jiao Tong University (2020), Broad Institute of MIT and Harvard (2019), HHMI Janelia Conference: Cell Biology of Neurons and Circuits (2019), Stanford Neurosciences Institute Big Ideas: Neuro-omics (2018), CSHL Meeting: Molecular Mechanisms of Neural Connectivity (2018), and Stanford Center for Molecular Neuroscience in Health and Disease (2018).

MENTORING

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| Yupu Wang | 2022 – , Postdoctoral Fellow |
| Zuzhi Jiang | 2022 – , Undergraduate Student |
| Ricardo Guajardo | 2015 – 2019, Undergraduate Student, Firestone Thesis Awardee of Stanford University; Currently, M.D.-Ph.D. Student at UC San Francisco |

TEACHING

- Summer School: Biology, Medicine, and Chemistry, Shanghai Jiao Tong University (2022, Lecturer)
- Neuro-omics Workshop, Stanford University (2020, Lecturer)
- BioCore: Laboratory Research in Cell and Molecular Biology, Stanford University (2016, Teaching Assistant)
- Molecular and Cellular Neurobiology, Stanford University (2015, Teaching Assistant)

SERVICES

Ad hoc reviewer for: *Cell Reports*, *Genetics*, *Frontiers in Molecular Neuroscience*, and *Scientific Reports*.
Community, Diversity, and Inclusion in Immunology (CDIII), Stanford University (2020 – 2022)