

Weihan Li, PhD

Incoming Assistant Professor at Brown University
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Professional Employment

Assistant Professor Department of Molecular Biology, Cell Biology, and Biochemistry Brown University, USA	Starting in 07/2025
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Education & Postgraduate Training

Postdoctoral Fellow Albert Einstein College of Medicine, USA Mentor: Dr. Robert H. Singer	11/2018-Present
Ph.D. in Biophysics University of California, San Francisco (UCSF), USA Mentor: Dr. Peter Walter	09/2011-10/2018
Visiting Research Assistant Niels Bohr Institute, Denmark Mentor: Dr. Mogens H. Jensen	07/2010-10/2010
BSc in Applied Physics Hong Kong Baptist University (HKBU), Hong Kong Mentor: Dr. Leihan Tang	09/2007-07/2011

Awards & Honors

RNA Society Member Spotlight (link)	03/2024
Dennis Shields Research Award (link)	10/2023
K99/R00 NIH/NIGMS Pathway to Independence Award	08/2023-07/2028
American Heart Association Postdoctoral Fellowship	01/2022-08/2023
Invited speaker at the ASBMB Annual Meeting	05/2020
UCSF Zaffaroni Family Fellowship	09/2011
China Youth Science and Technology Innovation Award (two recipients in Hong Kong)	06/2011
Gold Medal, International Genetically Engineered Machine (iGEM) competition	10/2009
College Full Scholarship, Hong Kong Baptist University	09/2007-07/2011

Funding

K99/R00 NIH/NIGMS Pathway to Independence Award K99GM148788 (PI: Weihan Li) "Spatial coordination of cytosolic and mitochondrial translation."	08/2023-07/2028
American Heart Association Postdoctoral Fellowship 903024 (PI: Weihan Li) "Spatial coordination of cytosolic and mitochondrial translations."	01/2022-07/2023
RNA Salon (MPI: Robert H. Singer, Weihan Li, Sulagna Das, Dong Woo Hwang) "The Einstein RNA Club", sponsored by the RNA Society	11/2022-10/2024
UCSF Zaffaroni Family Fellowship (PI: Weihan Li)	09/2011-09/2013

Service & Leadership

Junior lead editor, special issue "RNA Cell Biology" in <i>Molecular Biology of the Cell (MBoC)</i>	2024
Peer reviewer for American Heart Association Pre- and Postdoctoral Fellowships	2023
Co-organizer and chair of subgroup sessions at 2022 & 2023 ASCB EMBO Annual Meetings	2022-2023
Advisory committee and poster judge of the 1st Pan-NYC RNA Symposium	09/2023

Publications

- Hendrik Glauninger, Jared A.M. Bard, Caitlin J. Wong Hickernell, Edo M. Airoidi, **Wei Han Li**, Robert H. Singer, Sneha Paul, Jingyi Fei, Tobin R. Sosnick, Edward W. J. Wallace, and D. Allan Drummond. "Transcriptome-wide mRNA condensation precedes stress granule formation and excludes stress-induced transcripts." *bioRxiv*, 2024.
- Wei Han Li**^{*,†}, Anna Maekiniemi^{*,†}, Hanae Sato, Christof Osman, and Robert H. Singer[†]. "An improved imaging system that corrects MS2-induced RNA destabilization." *Nature Methods*. 19(12), 1558-1562. (2022) (* equal contribution, † correspondence).
- Wei Han Li**[†], and Robert H. Singer. "Detecting the non-conventional mRNA splicing and translational activation of *HAC1* in budding yeast." *Methods in Molecular Biology*, vol. 2378: 113-120 (2022). († correspondence)
- Adrien Le Thomas, Elena Ferri, Scot Marsters, Jonathan M. Harnoss, David A. Lawrence, Iratxe Zuazo-Gaztelu, Zora Modrusan, Sara Chan, Margaret Solon, Cécile Chalouni, **Wei Han Li**, Hartmut Koeppen, Joachim Rudolph, Weiru Wang, Thomas D. Wu, Peter Walter, & Avi Ashkenazi. "Decoding non-canonical mRNA decay by the endoplasmic-reticulum stress sensor IRE1α." *Nature Communications*, 12, 7310 (2021).
- Ravi V. Desai, Xinyue Chen, Benjamin Martin, Sonali Chaturvedi, Dong Woo Hwang, **Wei Han Li**, Chen Yu, Sheng Ding, Matt Thomson, Robert H. Singer, Robert A. Coleman, Maike M.K. Hansen, Leor S. Weinberger. "A DNA-repair pathway can affect transcriptional noise to promote cell fate transitions." *Science*, 373, no. 6557: eabc6506 (2021).
- Jeetayu Biswas, **Wei Han Li**, Robert H. Singer, and Robert A. Coleman. "Imaging Organization of RNA Processing within the Nucleus." *Cold Spring Harbor Perspectives in Biology*, a039453 (2021). [review]
- Wei Han Li**^{*}, Kelly Crotty^{*}, Diego Garrido Ruiz, Mark Voorhies, Carlos Rivera, Anita Sil, Dyché Mullins, Matthew Jacobson, Jirka Peschek, and Peter Walter. "Protomer alignment modulates specificity of RNA substrate recognition by Ire1." *eLife*, 10: e67425 (2021). (* equal contribution)
- Wei Han Li**[†], Voytek Okreglak, Jirka Peschek, Philipp Kimmig, Meghan Zubradt, Jonathan Weissman and Peter Walter[†]. "Engineering ER-stress dependent non-conventional mRNA splicing." *eLife*, 7:e35388 (2018). († co-correspondence)
- Lu, Dan, Juliet Girard, **Wei Han Li**, Arda Mizrak, and David O. Morgan. "Quantitative framework for ordered degradation of APC/C substrates." *BMC biology*, 13(1), 96 (2015).
- Wei Han Li**, Sandeep Krishna, Simone Pigolotti, Namiko Mitarai, and Mogens H Jensen. "Switching between oscillations and homeostasis in competing negative and positive feedback motifs." *Journal of Theoretical Biology*, 307, 205–210 (2012).
- Wei Han Li** and Changsong Zhou. "Topological determinants of synchronizability of oscillators on large complex networks." *The Open Bioinformatics Journal*, 5, 42-52 (2011). [review]

Conference Talks

Cold Spring Harbor Meeting on Single Biomolecules, USA	10/2024
ASCB EMBO Annual Meeting, Boston, USA	12/2023
Gordon Research Conference (GRC) RNA Nanotechnology, USA	01/2023
ASCB EMBO Annual Meeting, Washington DC, USA	12/2022
Cold Spring Harbor Meeting on Single Biomolecules, USA	08/2022
ASBMB Annual Meeting, Philadelphia, USA	04/2022
FASEB the ER Conference (virtual)	06/2021
Invited talk at the ASBMB Annual Meeting (virtual)	05/2020
The Annual Meeting for the Chilean Society for Cell Biology, Chile	10/2018
Cold Spring Harbor Meeting on Protein Homeostasis in Health & Disease, USA	04/2018
ASCB EMBO Annual Meeting, Philadelphia, USA	12/2017
Gordon Research Seminar (GRS) on Nucleic Acids, Biddeford, USA	06/2017
Cold Spring Harbor Meeting on Cell Biology of Yeasts, USA	10/2015

Symposium/Seminar Talks

RNA Symposium at Brown University	01/2025
Seminar at UMass Chan Medical School	12/2023
Seminar at Columbia University	05/2023
Seminar at University of California, San Diego	01/2023
Seminar at University of California, Santa Barbara	01/2023
Tri-Institutional RNA Symposium, Rockefeller University, USA	12/2022
Seminar at Colorado State University	06/2022
The 8th Annual RNA Symposium, SUNY Albany, USA	03/2022
Northern California Symposium of Computational Biology, USA	10/2018
Seminar at Princeton University	12/2017
Seminar at Genentech	11/2017
HHMI Collaborative Innovation seminar	10/2017
Seminar at University of Pittsburgh	04/2017

Teaching Experience

Mentor of the intern program of the European Master's Degree in Genetics	2022-2024
Mentor of two PhD students, two rotation students, and two visiting scholars at Einstein	2019-2025
Mentor of the UCSF High School Intern Program	06/2018-08/2018
Mentor of the HHMI EXROP undergraduate research program	07/2017-08/2017
Teaching assistant of <i>Physical Chemistry</i> at UCSF	09/2012-12/2012