# Stanford



# Chih Hao Lu

Ph.D. Student in Chemistry, admitted Autumn 2018

#### Bio

#### HONORS AND AWARDS

- Joseph R. McMicking Award, Department of Chemistry, Stanford University (2024)
- Center for the Molecular Analysis and Design (CMAD) fellowship, Stanford University (2020-2023)
- Government Scholarship to Study Abroad (GSSA), Ministry of Education of Taiwan (2019-2021)
- Excellent Oral Presentation Award, The Taiwan Society for Biochemistry and Molecular Biology (2018)
- Dean Award (Top 10% Outstanding students), College of Science, National Taiwan University (2017)
- Dr. Yung-Tsai Yen Excellent Research Award, National Taiwan University (2017)
- Excellent Research Award (Biochemistry Division), The Chinese Chemical Society, Taiwan (2017)
- NTU Excellent Teaching Assistants (Top 10% TA), National Taiwan University (2017)
- ETERNAL Chemical Engineering Corporate Scholarship, ETERNAL CORPORATION, Taiwan (2016)
- Excellent Teaching Assistant Award, Department of Chemistry, National Taiwan University (2016)
- Student Presentation Award, The Biophysical Society of Japan (2016)
- College Student Research Creativity Award, Ministry of Science and Technology (MoST), Taiwan (2015)
- Excellent Poster Presentation, Department of Chemistry, National Taiwan University (2015)
- College Student Research Projects Funding, Ministry of Science and Technology (MoST), Taiwan (2014)
- VE WONG Food Corporate Scholarship, VE WONG CORPORATION, Taiwan (2014)

#### EDUCATION AND CERTIFICATIONS

- Master of Science, National Taiwan University, Chemistry (Biophysical Chemistry) (2017)
- Bachelor of Science, National Taiwan University, Chemistry (Double-major) (2015)
- Bachelor of Science, National Taiwan University, Agricultural Chemistry (2015)

#### LINKS

• My Linkedin: https://www.linkedin.com/in/chih-hao-harry-lu-aa64b4144/

# **Research & Scholarship**

#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

#### #Biophysics

#Biochemistry

#Physical Chemistry

#Nanoscience

#Spectroscopy/ Microscopy

#Molecular Biology

#Cell Biology

#### LAB AFFILIATIONS

• Bianxiao Cui (1/31/2019)

## Professional

#### WORK EXPERIENCE

- Teaching Assistant National Taiwan University (September 1, 2015 June 30, 2016)
- Research Assistant Department of Chemistry, National Taiwan University (August 1, 2017 July 31, 2018)

## **Publications**

#### PUBLICATIONS

- Curved adhesions mediate cell attachment to soft matrix fibres in three dimensions. *Nature cell biology* Zhang, W., Lu, C. H., Nakamoto, M. L., Tsai, C. T., Roy, A. R., Lee, C. E., Yang, Y., Jahed, Z., Li, X., Cui, B. 2023
- A NanoCurvS platform for quantitative and multiplex analysis of curvature-sensing proteins. *Biomaterials science* Lu, C. H., Tsai, C. T., Jones Iv, T., Chim, V., Klausen, L. H., Zhang, W., Li, X., Jahed, Z., Cui, B. 2023
- Membrane curvature regulates the spatial distribution of bulky glycoproteins *NATURE COMMUNICATIONS* Lu, C., Pedram, K., Tsai, C., Jones IV, T., Li, X., Nakamoto, M. L., Bertozzi, C. R., Cui, B. 2022; 13
- Swi5–Sfr1 stimulates Rad51 recombinase filament assembly by modulating Rad51 dissociation *Proceedings of the National Academy of Sciences of the United States of America (PNAS)* Lu, C., et al

2018; 115: E10059-E10068

• Stable Nuclei of Nucleoprotein Filament and High ssDNA Binding Affinity Contribute to Enhanced RecA E38K Recombinase Activity SCIENTIFIC REPORTS

Lu, C., Chang, T., Cho, C., Lin, H., Li, H. 2017; 7: 14964

• RecA-SSB Interaction Modulates RecA Nucleoprotein Filament Formation on SSB-Wrapped DNA SCIENTIFIC REPORTS

Wu, H., Lu, C., Li, H. 2017; 7: 11876

• DNA with Different Local Torsional States Affects RecA-Mediated Recombination Progression CHEMPHYSCHEM

Lu, C., Li, H. 2017; 18 (6): 584–90

- Curved adhesions mediate cell attachment to soft matrix fibres in 3D. *bioRxiv : the preprint server for biology* Zhang, W., Lu, C. H., Nakamoto, M. L., Tsai, C. T., Roy, A. R., Lee, C. E., Yang, Y., Jahed, Z., Li, X., Cui, B. 2023
- Single-Molecule Tethered Particle Motion Studies on the DNA Recombinase Filament Assembly and Disassembly. *Methods in molecular biology (Clifton, N.J.)*

Lu, C., Lan, W., Li, H.

2021; 2281: 135-49

#### • Microcephaly family protein MCPH1 stabilizes RAD51 filaments Nucleic Acids Research Chang, H., Lee, C., Lu, C., Lee, W., Yang, H., Yeh, H., Li, H., Chi, P. 2020