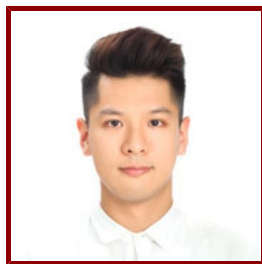


Stanford



Chih Hao Lu

Ph.D. Student in Chemistry, admitted Autumn 2018

Bio

HONORS AND AWARDS

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

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)

STANFORD ADVISORS

- Bianxiao Cui, Doctoral Dissertation Advisor (AC)

LINKS

- My LinkedIn: <https://www.linkedin.com/in/chih-hao-harry-lu-aa64b4144/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

#Single-molecule Biophysical Chemistry

#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

- **Single-Molecule Tethered Particle Motion Studies on the DNA Recombinase Filament Assembly and Disassembly** *Methods in Molecular Biology - Single Stranded DNA Binding Proteins*
Lu, C., Lan, W., Li, H.
Springer US.2021; 1
- **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
- **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** *CHEMPHYSICHEM*
Lu, C., Li, H.
2017; 18 (6): 584-90
- **Large Glycocalyx Proteins are Excluded from the Interface between Cell Membrane and Vertical Nanostructures**
Lu, C., Jones, T., Pedram, K., Bertozzi, C., Paszek, M., Cui, B.
CELL PRESS.2020: 396A

PRESENTATIONS

- Stimulation Mechanism of SWI5-SFR1 on RAD51 Filament Formation - The 33rd Joint Annual Conference of Biomedical Science (March 24, 2018 - March 25, 2018)

- Investigate the role of SwiI5-Sfr1 complex on RAD51 presynaptic filament formation using single-molecule approaches - Sunney Chan Symposium "Membrane Protein: Biochemistry, Disease, and Energy"
- Investigating the effects of DNA torsional strain on RecA-mediated strand exchange reaction using single-molecule methods - International RecA and chromosome biology conference (September 2015)