HAO PING LEE

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SUMMARY

Molecular Biologist with direct research experience in RNA biology and post-transcriptional control of gene expression.

EDUCATION

UNIVERSITY OF CALIFORNIA-SANTA CRUZ, CA   June 2019

Bachelor of Science degree in Molecular Cell and Development Biology.
Major course highlights: Cell Biology, Immunology, Organic Chemistry, Microbiology, Molecular Biology, Computational Biology Tools, Biochemistry, and Genetics.
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RESEARCH EXPERIENCE

UNIVERSITY OF CALIFORNIA-SANTA CRUZ, CA   September 2018-present

-Researcher, Department of Molecular, Cell and Developmental Biology
My studies in the laboratory of Dr. Sanford involve elucidating how disease-causing mutation in pre-mRNA exon can affect alternative splicing.

- Problem: Investigating of alternative splicing activity caused by disease-causing single nucleotide mutation on pre-mRNA exon.
- Approach: Create plasmid containing beta-globin reporter gene along with wildtype or mutated exon, in order to perform splicing assay.
- Contribution: Designing wildtype and mutant exon, Cloning of exon into reporter plasmid, Extraction of RNA from mammalian cells, and Splicing assy.
- Conclusion: Some disease-causing mutations in exon can alter pre-mRNA splicing. This is possibly result of creation or deletion of exonic splicing enhancer (ESE) or exonic splicing silencer (ESS).

VOLUNTEER EXPERIENCE

RIVER OF LIFE CHRISTIAN CHURCH   September 2014 to September 2016

-Logistic Assistant

Provided leadership and cooperation in order to keep organization in a good circumstance. Communicate with people in the crew with clear conversation. Have successfully managed to help setting up few large events.

SKILLS

- RNA Splicing Assay
- DNA and RNA Purification
- Plasmid Cloning
- Microsoft Office
- Restriction mapping
- Ligation via In-Fusion
- Cloning / Site-Directed Mutagenesis PCR
- UCSC Genome Browser
- MiTranscriptome
- MiPanda
- BioGPS
- Serial Cloner/Snap Gene

LANGUAGES BESIDE ENGLISH

Mandarin: Native Speaker