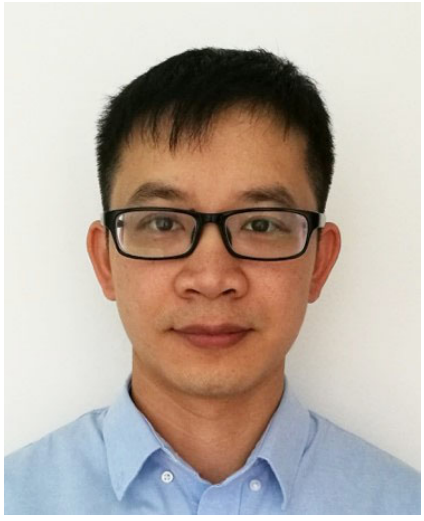
NUS National University of Singapore | Department of Biological Sciences
Faculty of Science

SEMINAR

Wed, 2 Dec 2020 | 9 am | Online Zoom Session

Hosted by Prof Yang Daiwen

Mechanisms of protein translational regulation: Marking the ribosomes for targeted control



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By **Lin Zhewang**
Research Fellow, Institute of Molecular and Cell Biology, Singapore

Rapidly growing cells typically produce millions of newly synthesized proteins per minute. Both the quantity and quality of proteins produced from a cell's transcriptome are crucial for cellular homeostasis. Failure to do so can lead to many different diseases. Thus, cells have evolved numerous mechanisms for regulating translation output both during and after translation. I will first talk about a unique post-translational modification on protein that is important for maintaining translation fidelity and then describe the discovery of a novel co-translational regulatory process which allow cells to adjust the level of tubulin mRNAs according to its protein concentration. I am especially motivated to use the experimental methods and techniques described here for my future research, directed at establishing the principles and mechanisms of co-translational protein regulatory network, an emerging and under-examined area of research in neurodegenerative diseases and cancers.

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