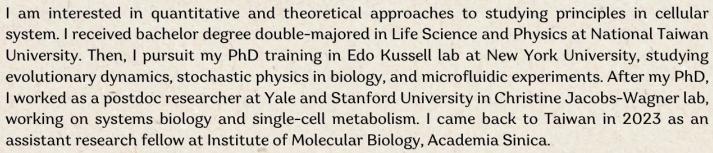


Speaker Bio

Wei-Hsiang Lin (林暐翔)

Institute of Molecular Biology, Academia Sinica

About the speaker:



I am interested in understanding the physical principles of growing systems, such as cells and microbiomes. My research focused on long-term behavior in nonlinear reaction networks and developed a mathematical framework for exponential-growing systems. I am also studying the transport phenomena on reaction networks, which served as the foundation of cell systems.

In addition to theoretical studies, I am also working with microfluidic cell culture, time-lapse microscopy, and quantitative image analysis. During my PhD and postdoc, I studied single-cell response to fluctuating antibiotic administration and characterized the temporal dynamics of ATP during cell growth.

