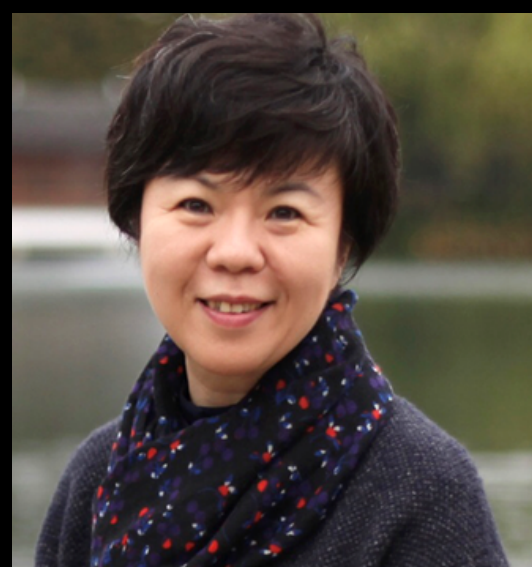


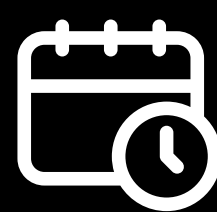
NUCLEAR RNA SORTING

About the speaker

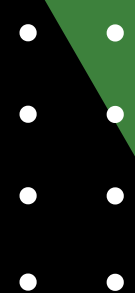
Hong Cheng, Ph.D., is a Principal Investigator and Professor specializing in RNA biology at the Shanghai Institute of Biochemistry and Cell Biology (SIBCB), Chinese Academy of Sciences. She earned her Ph.D. in Molecular Pharmacology from Kobe University, Japan, in 2003. Dr. Cheng completed her postdoctoral training under the mentorship of Professor Robin Reed at Harvard Medical School, where she developed expertise in RNA biology. Since establishing her independent research group at SIBCB in 2008, her work has focused on elucidating the mechanisms of nuclear RNA processing, export, and degradation, with particular emphasis on how nuclear RNAs are sorted into nuclear export and degradation pathways and how this sorting impacts development and disease. Dr. Cheng's contributions have advanced our understanding of how eukaryotic cells achieve precise gene expression through coordinated nuclear RNA fate decisions.



Dr. Hong Cheng
Professor
Shanghai Institute of Biochemistry and
Cell Biology, CAS



Tuesday 25 November 2025
10.00am (SGT , GMT+8)



[Via Zoom](#)



About the seminar

In eukaryotes, RNA polymerase II transcribes a diverse repertoire of RNAs. Despite sharing fundamental structural features, these transcripts undergo divergent fates: some are exported to the cytoplasm, others are retained in the nucleus, and a subset is rapidly degraded shortly after transcription. The accurate sorting of nascent RNAs into productive or destructive pathways represents a crucial layer of gene expression regulation. In this presentation, I will discuss our recent work elucidating the principles, mechanisms, and biological significance of nuclear RNA sorting.

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