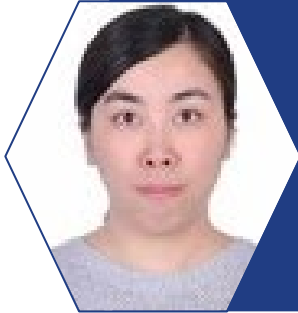


SlgN SEMINAR

Hosted by Dr Liang Wei WANG

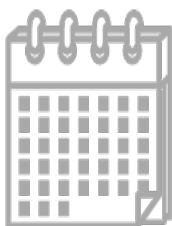


Dr Qianqian Ni

Assistant Professor
Yong Loo Lin School of Medicine
Diagnostic Radiology
National University of Singapore

Nucleic Acid Nanotechnologies for RNA Therapy and Genome Editing

Since the advent of COVID-19 mRNA vaccines, mRNA has become one of the most promising nucleic acid therapeutics. However, a major challenge now is how to deliver mRNA to targeting cells effectively and increase mRNA expression yield but de-risk potential toxicity to expand its clinical applications beyond vaccines. In the past few years, we have been actively engaged in developing novel lipid nanoparticle (LNP) technologies and mRNA structural engineering techniques to improve the delivery, stability and the production yield of mRNA therapeutics. Compared to currently commercialized mRNA technologies, our advanced LNPs and mRNA engineering techniques enable markedly enhanced protein translation capacity and therapeutic efficacy for versatile applications, including cancer immunotherapy genome editing and protein replacement therapy.



24 April 2025 (Thursday)
2 – 3 PM (Singapore Time)

SlgN Seminar Room
8A Biomedical Grove, Immunos, #04-06
Singapore 138648

*Seminar is
open for all
to attend.*

*Registration
is not
required.*

