



Messenger RNA therapy: Past, present, future



State Key Laboratory
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时间: 2017-06-13 (周二) 10:00 AM-11:30AM

地点: 化新楼B座 211 (篮球场北侧)



个人简介:

Dr Phua obtained his Ph.D in Biomedical Engineering (2014) from Duke University under the mentorship of Professor Kam Leong and Smita Nair, the pioneer and inventor of RNA vaccine at Duke University Medical Center.

Dr Phua started his lab at the National University of Singapore in 2014 immediately after his PhD and his research focuses on two areas: mRNA delivery science and mRNA delivery technology. Dr Phua has published as first author in highly reputed journals such as Biomaterials, Journal of Controlled Release, Nanoscale and Advanced Healthcare Materials.

报告摘要:

Our research interests lie in advancing mRNA therapeutics for non-vaccine application, which implicates three prominent and interdependent fields of biomedical science: immunology, delivery and therapy.

We combine our understanding of unique properties of mRNA with a need-based multidisciplinary approaches to tune mRNA immunogenicity and mRNA delivery efficiencies towards a desired biomedical need. In the process, we strive to re-new our understanding of mRNA delivery science knowledge and develop state-of-the-art delivery devices.