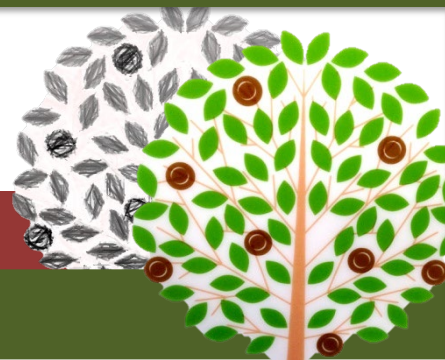


**ON-SITE BIOLOGY COLLOQUIUM**

Friday, 3 Jul 2026 | 4 pm | S3 05-02 Conference Room 1

Hosted by Assoc Prof Cynthia He

Map to Block S3



Hacking the software of life — — The Era of RNA Therapeutics

Dr. Bo Ying*CEO, Abogen Biosciences***About the Speaker**

Dr. Bo Ying is the founder and CEO of Abogen Biosciences, the leading mRNA company in China focused on developing innovative mRNA technologies for prophylactic vaccines, immuno-oncology and autoimmune diseases. Dr. Ying has many years of experiences in the development of nucleic acid-based therapeutics, and he has held various roles in leading biopharmaceutical companies in Boston. His work has been published in journals such as Cell, Lancet Microbe, Cell Research, and he is also the inventor of over 100 patents and patent applications. Dr. Ying has a bachelor's degree from Fudan University in China and a Ph.D. degree from Northeastern University in Boston.

Half a century after mRNA's discovery, we are now programming it as medicine. Yet the true revolution lies not in the molecule alone, but in how we design, optimize, and manufacture it.

At Abogen Biosciences, we harness artificial intelligence and automation to drive every stage of RNA therapeutic development. AI algorithms accelerate on antigen structure prediction, xRNA sequence designs, ionizable lipid discovery for a xRNA-LNP product with a better potency and safety, while automated high throughput platforms endow the establishment of a variety of database, which feed back into training better AI- creating a continuous cycle of improvement. As the new frontier of merging biology with digital technology, we are hacking the software of life not with brute force, but with machine learning and robotic precision, by tackling infectious diseases, oncology and autoimmune diseases.

At NUS, I am excited to share how we are building a future where RNA medicines are Irreplaceable and implemented by AI algorithms and platform technologies