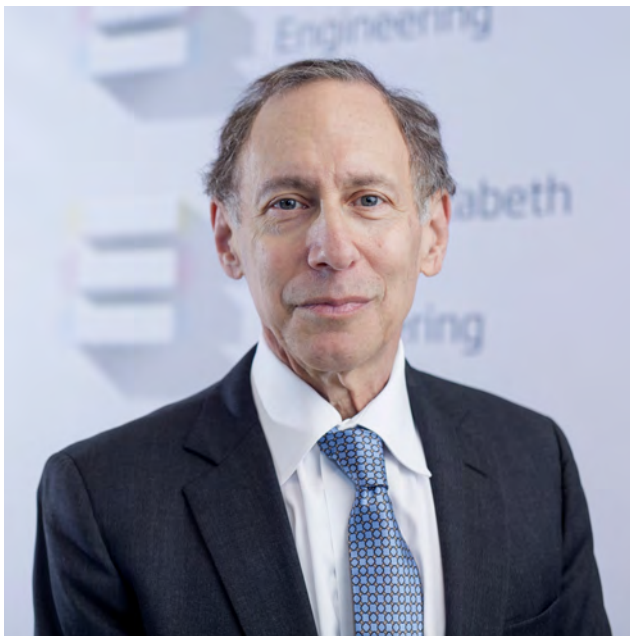
A NanoBioLab Symposium 2021 Webinar

Prof. Robert Langer, Massachusetts Institute of Technology

CHEMISTRY IN SUPPORT OF HEALTH: DRUG DELIVERY AND TISSUE ENGINEERING



Tuesday, February 9, 2021
9:00 - 10:00 am SGT

Click Here to Join Us on Zoom
Meeting ID: 956 1090 1695
Passcode: 291151

Prof. Robert Langer

David H. Koch Institute Professor, Massachusetts Institute of Technology, USA

ABSTRACT

Advanced drug delivery systems are having an enormous impact on human health. I start by discussing our early research on developing the controlled release systems for macromolecules and how that led to the isolation of the first angiogenesis inhibitors and then led to numerous new therapies, including nanoparticle-based drug delivery. I then discuss new oral delivery systems for macromolecules such as insulin. Finally, I discuss the development of approaches for creating new tissues and organs, including organs on a chip.

ABOUT THE SPEAKER

Robert Langer is one of 11 Institute Professors at the Massachusetts Institute of Technology (MIT); being an Institute Professor is the highest honor that can be awarded to a faculty member. He has written over 1,500 articles, which have been cited over 328,000 times; his h-index of 282 is the highest of any engineer in history and tied for the 4th highest of any individual in any field. His patents have licensed or sublicensed to over 400 companies. He served as Chairman of the FDA's Science Board (its highest advisory board) from 1999-2002. His over 220 awards include both the United States National Medal of Science and the United States National Medal of Technology and Innovation (he is one of 3 living individuals to have received both these honors), the Charles Stark Draper Prize (often called the Engineering Nobel Prize), Queen Elizabeth Prize for Engineering, Albany Medical Center Prize, Breakthrough Prize in Life Sciences, Kyoto Prize, Wolf Prize for Chemistry, Millennium Technology Prize, Priestley Medal (highest award of the American Chemical Society), Gairdner Prize, and the Dreyfus Prize in Chemical Sciences. He holds 34 honorary doctorates and has been elected to the National Academy of Medicine, the National Academy of Engineering, the National Academy of Sciences and the National Academy of Inventors.

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Symposium Organizer: Prof. Jackie Y. Ying, A*STAR Senior Fellow, NanoBio Lab

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