



François Képès
Professor

Institute of System &
Synthetic Biology (iSSB)
Genopole, CNRS
Université Evry, France

Modelling & Engineering Genome Architecture

Professor Képès' talk will focus on how to design from scratch a microbial genome that is both functional and stable. It will cover recent discoveries concerning the organization of natural chromosomes as well as the re-factoring of natural chromosomes and the factoring of rationally designed synthetic chromosomes. The talk will also address the constraints and challenges faced in the engineering of genome architecture.

Biography

François Képès is a Director of Research at the National Centre for Scientific Research, or CNRS, France. He is also a co-founder and director of the Epigenomics Program (Genopole) and team leader at the Institute of Systems Biology and Synthesis (iSSB). Képès is a cell biologist with research interests in genome architecture engineering using various approaches in molecular, systems and synthetic biology. He leads the "Modelling and Engineering Genome Architecture" (MEGA) team at iSSB. Képès is the author of more than a hundred scientific publications as well as several books including the French title - Synthetic biology stronger than nature. He serves as the editor of four international journals including Synthetic Biology and is an expert advisor for 11 European, North- and South-American and Middle East funding agencies.

03 April 2017 | 3 pm to 4 pm

CeLS Auditorium,

28 Medical Drive, Centre for Life Sciences, Singapore 117456

<http://syncti.org/>

Chaired by A/P Yew Wen Shan