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## SATURDAY: OCTOBER 17, 2020

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### DISTINGUISHED BIOMEDICAL ENGINEERING WEBINAR



“Microfluidics/Nanoparticles-based Theranostics  
for Combating Drug-resistance”

Xingyu Jiang, PhD

Southern University of Science and Technology, Shenzhen, China

#### ABOUT THE WEBINAR

Microfluidics represent an appealing technology for the construction and discovery of new therapeutics. We demonstrate that microfluidics can dramatically improve the efficiency of developing these therapeutics. Driven by miniaturization and surface chemistry, microscale chips allow the synthesis of drug carriers and novel drugs based on nanoscale structures, with improved throughput, efficiency and super pharmaceutical properties. Combined with nanoparticles and nano-materials, microfluidics show great promise in developing novel therapeutics. For example, these platforms are extraordinarily useful for screening of therapeutics, e.g., nanocarriers for introducing siRNA, CRISPR/Cas, and so forth.

#### ABOUT THE SPEAKER

Xingyu Jiang, PhD

*Southern University of Science and Technology, Shenzhen, China*

Xingyu Jiang is a Chair Professor at the Southern University of Science and Technology, Shenzhen, China (since 2018). He obtained his BS at the University of Chicago (1999) and PhD at Harvard University (2004). In 2005, he joined the National Center for NanoScience and Technology. He was awarded the “Hundred Talents Plan” of the Chinese Academy of Sciences, the National Science Foundation of China’s Distinguished Young Scholars Award, the Human Frontier Science Program Young Investigator Award. He is a Fellow of the American Institute of Medical and Biological Engineering, and the Royal Society of Chemistry.

