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Challenge of forensic toxicology in the era of synthetic biology

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Abstract

Synthetic Biology is an emerging engineering field based on principals of molecular biology, bio-informatics and computer science to design new biochemical pathways and novel characteristics of living creatures based on DNA. With its rapid growth rate and wider application trend, it may bring un-predicable influence to a number of established order of social structures, including the legal system of forensic toxicology. In this brief talk, the speaker will summarize the current achievement of synthetic biology, its potential in near future, and offer analysis on its benefits on personalized medicine and possible risk on forensic toxicology.

Biography

Ching Song has completed his Ph.D. at the age of 29 years and postdoctoral studies from University of Chicago. He is employed as a full professor teaching Gene Engineering and a number of related courses at USTB. He has published a few papers in peer-reviewed scientific journals and is an active member of Chinese Pharmacology Society.