

Jian Tang

Quantitative and Computational Biology Group
Max-Planck Institute for Multidisciplinary Sciences

Title: Generative Biology: Towards Building the “ChatGPT” in Biology

Abstract: We are currently at the intersection of the AI and biology revolutions. On one hand, generative AI has made great breakthroughs recent years such as the ChatGPT, which is trained on a huge amount of text and code data and is able to have conversations with humans by generating very reasonable responses; on the other hand, biotechnology represented by high-throughput gene sequencing, editing and synthesizing generate a huge amount of data for biomolecule understanding, creating a new era for AI. The deep fusion of the two revolutionary technologies has brought great opportunities for the generation of completely new drug molecules. In this talk, I will share my thoughts on how to build the generative AI or the “ChatGPT” in biology and also share some of our work along this direction.