



中国科学院生物物理研究所

Institute of Biophysics, Chinese Academy of Sciences

建所60周年



BEI Shizhang Lecture for the 60th Anniversary of IBP 贝时璋讲座暨纪念生物物理所建所60周年 学术报告

报告题目: **Determining function of viral genome at single nucleotide resolution and structure of viral genome at atomic resolution**

报告人: Prof. Ren Sun

报告时间: 2018年5月21日(周一)上午10:00

报告地点: 9501会议室

主持人: 许瑞明研究员



邀请人简介

Dr. Ren Sun is Professor for Department of Molecular and Medical Pharmacology, David Geffen School of Medicine at UCLA. Dr. Sun's research focuses on studying the following viruses: Kaposi sarcoma-associate herpesvirus (KSHV), murine herpesvirus-68(MHV-68), influenza virus, Zika virus and HIV. Recently, Dr. Ren Sun's lab has developed a method that will enable them to generate a functional genetic map of an entire viral genome at single nucleotide resolution. These studies will generate functional genomic maps that lay the foundation for comprehensively defining virus-host interactions, and accelerate rational vaccine design and drug development.

代表性文章

1. Structure and mutagenesis reveal capsid protein interactions essential to KSHV replication. *Nature*, 2018.
2. Genome-wide identification of interferon sensitive mutations enables rational influenza vaccine design. *Science*, 2018.
3. CTL escape of HIV-1 Gag epitopes is determined by mutational effects on replicative fitness and MHC-I binding affinity. *mBio*, 2017.
4. Systematic identification of anti-interferon function on hepatitis C virus genome reveals p7 as an immune evasion protein. *PNAS*, 2017.



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