数学与系统科学研究院 计算数学所学术报告

<u>报告人</u>: PhD. Sichun Yang

(Center for Proteomics and Department of Nutrition, Department of Pharmacology, Department of Physiology and Biophysics, Case Western Reserve University School of Medicine)

报告题目:

Integrative Biophysics of Estrogen Receptor

邀请人: 卢本卓 研究员

<u>报告时间</u>: 2017 年 6 月 28 日 (周三) 上午 10:00-11:00

<u>报告地点</u>:数学院南楼七层 702 教室

Abstract:

Macromolecular interactions such as estrogen receptor (ER)-a key driver of breast cancer growth-provide the molecular underpinning for virtually every biological Despite decades of effort, however, structure determination of protein-protein complexes is still a daunting task for existing techniques due to size, stability, and/or complexity protein complexes of interest. To advance the ability to characterize these complexes, we have established a multi-technique iSPOT platform by integrating scattering, and footprinting. computational docking. thereby determining a first median-resolution structure of the multi-domain ER complex. This iSPOT application has revealed a completely new protein fold of ER that is from that of existing hormone receptors that provides a glimpse into the hidden cross-talk between the ER domains critical for the design of next drugs, while the data-driven iSPOT development provides a vital step for biomedical applications to many protein-protein complexes for years to come.

欢迎大家参加!