



Jamming in biological systems

Dense packing in protein cores, crowding in the bacterial cytoplasm, and jamming of cells in tissues and tumors

A two-week summer program at the Kavli Institute for Theoretical Sciences (KITS) in Beijing, China

August 6-17, 2018

The workshop will bring together researchers in the biological and physical sciences to focus on dense packing and jamming behavior in proteins, cells and tissues.

The workshop will be hosted by the KITS, which is adjacent to the campus of the Institute of Physics (IOP), Chinese Academy of Sciences. It is organized by Profs. **Corey O'Hern** (Yale University), **Mark D. Shattuck** (City College of New York), and **Fangfu Ye** (IOP).

A short list of topics includes **dense packing in protein cores, computational modeling of tissues and tumors, wound healing, epithelial-mesenchymal transitions, cell locomotion and spreading, swarming bacteria, and biological self-assembly processes.**

More information about the workshop can be found at <http://kitsucas.ac.cn/index.php/events/workshop>

Tentative list of international speakers includes:

Shiladytia Banerjee (University College London)
Max Bi (Northeastern University)
Bin Chen (Zhejiang University)
Linhong Deng (Changzhou University)
Xiqiao Feng (Tsinghua University)
Arya Gaurav (Duke University)
Ming Guo (MIT)
Tony Harris (University of Toronto)
Shane Hutson (Vanderbilt University)
Timon Idema (TU Delft)
Shuji Ishihara (University of Tokyo)
Baohua Ji (Zhejiang University)
Josef Käs (Leipzig University)

Hui Li (Institute of Physics, CAS)
Yuan Lin (University of Hong Kong)
Benjamin Machta (Yale University)
Michael Murrell (Yale University)
Rudi Podgornik (University of Ljubljana and University of the Chinese Academy of Sciences)
Xinghua Shi (National Centre for Nanoscience and Technology, CAS)
Jay Tang (Brown University)
Penger Tong (Hong Kong University of Science and Technology)
Qi Wang (University of South Carolina)
Ian Wong (Brown University)
Chunyang Xiong (Peking University)
Xinpeng Xu (Guangdong Technion)

