FASSBERG Seminar Series

Thursday 18. 10. 2018 13:00 s.t.



Anthony Hyman

Max Planck Institute of Molecular Cell Biology and Genetics Dresden, Germany

Biomolecular condensates and their implications for physiology and disease

Cells organize many of their biochemical reactions by formation and dissolution of non-membrane-bound compartments. Recent experiments show that a common mechanism for such biochemical organization is phase separation of unstructured proteins to form liquid-like compartments. These compartments can subsequently harden to form compartments with new material properties such as gels and glasses. These compartments can be described by principles elucidated from condensed-matter physics and are therefore termed biomolecular condensates. I will discuss potential roles of phase separation in organization of cellular biochemistry and the role of aberrant phase separation in disease.



Ludwig Prandtl Hall, Administration Building Max Planck Institute for Biophysical Chemistry, Am Fassberg 11, 37079 Göttingen