

NVBMB Speaker of the Year



Tony Hyman

Director Max Planck Institute of
Molecular Cell Biology and
Genetics

"Phase separation in cell physiology and disease"

Cells organize many of their biochemical reactions by formation and dissolution of non-membrane-bound compartments. Recent experiments show that one common mechanism for such biochemical organization is phase separation of disordered 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 and robustness of cellular biochemistry and how they fail in disease.

Mon 22 april
14.30 h

Technical University Eindhoven
ICMS 0.31 (Building Ceres), Groene Loper 3, 5612 AE Eindhoven
Host: prof. Luc Brunsveld (l.brunsveld@tue.nl)

Tue 22 april
15.30 h

Wageningen University
Orion building room C1005, Bronland 1, Building 103, 6708 WH Wageningen
Host: Dr. Jan Willem Borst (janwillem.borst@wur.nl)

Wed 23 april
16.00 h

Vrije Universiteit
Auditorium O|2 Building, De Boelelaan 1108, 1081HZ Amsterdam
Host: Dr. Yves Bollen (yves.bollen@vu.nl)