

# 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 23 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 24 april  
16.00 h

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