



# DLS

## Distinguished Lecturer Series

12 November 2020 15.00 CET



Please register here for our DLS newsletter.

You will then receive the link for the online conference  
by e-mail shortly before the presentation.

# Tuomas Knowles University of Cambridge

## Biophysics of protein aggregation



This talk describes our efforts to elucidate the molecular mechanisms of protein aggregation as well as the kinetics of this process and how these features connect to the biological roles that these structures can have in both health and disease. A particular focus will be on the development and use of tools and concepts from physical chemistry, in particular chemical reaction kinetics, to discover molecular assembly pathways in amyloid formation. Moreover I will discuss the development of new microfluidics approaches to study heterogeneous protein self-assembly and their application to explore the molecular determinants of amyloid formation from peptides and proteins.