

## *Tying the knot between experiment and computation in Molecular and Cellular Biology*

Coordinated by **Prof. Franca Fraternali** and **Prof. Konstantinos Thalassinos**

On **Wednesdays** from **1-2pm** in the **JZ Young Lecture Theatre, UCL Anatomy Building**

<b>4<sup>th</sup> October 2023</b>	<i>Cryomicroscopy studies of lipid-enveloped virus entry and assembly</i> <b><a href="#">Prof. Peter Rosenthal, The Francis Crick Institute, UK</a></b> Host: Prof. Andres Ramos
<b>11<sup>th</sup> October 2023</b>	<i>Clathrin EDI: Evolution, diversity and interactions regulating membrane traffic</i> <b><a href="#">Prof. Frances Brodsky, UCL Division of Biosciences, UK</a></b> Host: Prof. Franca Fraternali and Prof. Kostas Thalassinos
<b>18<sup>th</sup> October 2023</b>	<i>Life in a crowded environment: How subcellular density homeostasis drives cellular organization</i> <b><a href="#">Prof. Simone Reber, Max Planck Institute for Infection Biology, Germany</a></b> Host: Prof. Carolyn Moores
<b>25<sup>th</sup> October 2023</b>	<i>Integrating Computational and Experimental methods for the study of GPCRs</i> <b><a href="#">Prof. Andrea Townsend-Nicholson, UCL Division of Biosciences, UK</a></b> Host: Prof. Franca Fraternali
<b>1<sup>st</sup> November 2023</b>	<i>Using artificial intelligence to tune the heart's engine</i> <b><a href="#">Dr. Thomas Kampourakis, Kings College London, UK</a></b> Host: Prof. Franca Fraternali
<b>8<sup>th</sup> November 2023</b>	<i>Dynamics of prion assemblies, consequences of the coexistence of multiple prion conformations</i> <b><a href="#">Prof. Human Rezaei, INRAE, France</a></b> Host: Prof. Franca Fraternali
<b>15<sup>th</sup> November 2023</b>	<i>Native ambient mass spectrometry: In situ analysis of proteins and their complexes</i> <b><a href="#">Prof. Helen Cooper, University of Birmingham, UK</a></b> Host: Prof. Konstantinos Thalassinos
<b>21<sup>st</sup> November 2023 (Tuesday)</b>	<i>Probing the proteome-wide choreography of protein conformational changes</i> <b><a href="#">Prof. Paola Picotti, Institute of Molecular Systems Biology, ETH Zurich, Switzerland</a></b> Host: Prof. Konstantinos Thalassinos
<b>29<sup>th</sup> November 2023</b>	<i>Crosslinking mass spectrometry – structural biology from masses</i> <b><a href="#">Dr. Richard Scheltema, Utrecht University, The Netherlands</a></b> Host: Prof. Konstantinos Thalassinos
<b>6<sup>th</sup> December 2023</b>	<i>Structural studies of the TIR-SAVED complex</i> <b><a href="#">Prof. Laura Spagnolo, University of Glasgow, UK</a></b> Special host: Birkbeck postdocs, Rosie Bell and Natalie Al-Otaibi
<b>13<sup>th</sup> December 2023</b>	<i>Probing dynamics of macromolecules and energetics of molecular interactions with high-performance, fast and accessible computational methods</i> <b><a href="#">Prof. Rafael Najmanovich, Universite de Montreal, Canada</a></b> Host: Dr. Irilenia Nobeli