

## *Capturing scales of biological mechanisms: from individual molecules to organisms*

Coordinated by **Prof. John Christodoulou** and **Dr. Amandine Marechal**.

On **Wednesdays** from **1-2pm** in the **JZ Young Lecture Theatre, UCL Anatomy Building** and remotely via **MS Teams**.

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<b>11<sup>th</sup> January 2023</b>	<i>Using single-molecule atomic force microscopy to probe transient electron transfer complexes</i> <a href="#"><b>Prof. Matt Johnson, University of Sheffield, UK</b></a>
<b>18<sup>th</sup> January 2023</b>	<i>Structural and functional heterogeneity of the human respiratory chain</i> <a href="#"><b>Dr. Cristina Ugalde, Instituto de Investigación Hospital 12 de Octubre, Spain</b></a>
<b>25<sup>th</sup> January 2023</b>	<i>Protein folding, unfolding and disaggregation by Hsp60 and Hsp70 molecular chaperones</i> <a href="#"><b>Prof. Helen Saibil, Birkbeck, University of London, UK</b></a>
<b>1<sup>st</sup> February 2023</b>	<i>Mining non-cultivated bacteria for plastic degrading enzymes</i> <a href="#"><b>Prof. Wolfgang Streit, University of Hamburg, Germany</b></a> Special host: Prof. Finn Werner
<b>8<sup>th</sup> February 2023</b>	<i>Antitrypsin deficiency and the serpinopathies – pathological polymers and a small molecule therapy</i> <a href="#"><b>Prof. David Lomas, UCL School of Life and Medical Sciences, UK</b></a>
<b>15<sup>th</sup> February 2023</b>	<i>Genetic Therapies for Huntington's disease - challenges and opportunities</i> <a href="#"><b>Prof. Sarah Tabrizi, UCL Institute of Neurology, UK</b></a>
<b>22<sup>nd</sup> February 2023</b>	<i>Coping with Mechanical Stress: Tissue dynamics during development and repair</i> <a href="#"><b>Prof. Yanlan Mao, MRC Laboratory of Molecular Cell Biology, UCL, UK</b></a>
<b>1<sup>st</sup> March 2023</b>	<i>Mechanisms of co-translational assembly of protein complexes</i> <a href="#"><b>Prof. Bernd Bukau, University of Heidelberg, Germany</b></a>
<b>8<sup>th</sup> March 2023</b>	<i>Breaking symmetry in the brain: from genes to behaviour</i> <a href="#"><b>Prof. Steve Wilson, UCL Division of Biosciences, UK</b></a>
<b>15<sup>th</sup> March 2023</b>	<i>Probing disordered proteins with single-molecule spectroscopy</i> <a href="#"><b>Prof. Ben Schuler, University of Zurich, Switzerland</b></a>
<b>22<sup>nd</sup> March 2023</b>	<i>Exploiting divergent biology of two fission yeasts to understand membrane function</i> <a href="#"><b>Prof. Snezhka Oliferenko, Francis Crick Institute, UK</b></a> Special host: <b>Dr. Giulia Zanetti</b>
<b>29<sup>th</sup> March 2023</b>	<i>Cell-Free Expression: A Strategy for Prototyping Parts, Building Biosynthetic Pathways, and Making Novel Xenobiotics</i> <a href="#"><b>Prof. Paul Freemont, Imperial College London</b></a> Special host: ISMB PDRAs

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