

New Horizons in Glycobiology

The spring seminar series in 2025 will examine the complexity and diversity of glycans and glycoconjugates by exploring both chemical/biological tools to dissect their functional roles and interdisciplinary approaches. The speakers will reflect on these topics in the context of their current work which will span precision chemical tools, structural, predictive and semi-synthetic approaches to studying glycoproteins, profiling glycans by arrays and by mass spectrometry.

Coordinated by **Neil McDonald, Franca Fraternali, Jerome Gouge and Andres Ramos**

On **Wednesdays** from **1-2pm** in the **Gavin de Beer Lecture Theatre, UCL Anatomy Building**

22nd January 2025	<p><i>Genomic based approaches to develop population specific precision medicine for Polynesian peoples</i></p> <p>Peter Shepherd, University of Auckland Host: Snezana Djordjevic</p>
29th January 2025	<p><i>The many facets of GPCR activation and deactivation: Insights from advanced NMR techniques</i></p> <p>Alvar Gossert, ETH Zurich Host: John Christodoulou</p>
5th February 2025	<p><i>Decoding Glycan-Mediated Interactions in Infection and Immunity</i></p> <p>Yan Liu, Imperial College London Host: Neil McDonald</p>
12th February 2025	<p><i>Understanding the role of that the LRRK2 pathway plays in Parkinson's disease</i></p> <p>Dario Alessi, University of Dundee Host: Ivan Gout</p>
19th February 2025	<p><i>Integrative modeling of glycoproteins</i></p> <p>Mateusz Sikora, Dioscuri Centre for Modelling of Posttranslational Modifications, Krakow Host: Franca Fraternali</p>
26th February 2025	<p><i>Mass spectrometry-based analysis of post-translational modifications – the $\Delta 80$ Da challenge</i></p> <p>Claire Eyers, University of Liverpool Host: Neil McDonald</p>
5th March 2025	<p><i>Beyond Nutrition: Manufacturing and Modifying Vitamin B12 for Biotechnological and Therapeutic Applications</i></p> <p>Martin Warren, Quadram Institute, Norwich Host: Tine Arnvig</p>
12th March 2025	<p><i>Restoring Protein Glycosylation with GlycoShape</i></p> <p>Elisa Fadda, University of Southampton Host: Franca Fraternali</p>
19th March 2025	<p><i>Non-natural amino acids and bio-orthogonal ligations for studying protein folding and post-translational modifications</i></p> <p>Marina Rubini, University College Dublin Host: Jerome Gouge</p>
26th March	<p><i>Unconventional protein import and oxidative folding sustain mitochondrial biogenesis and fitness</i></p> <p>Kostas Tokatlidis, University of Glasgow Host: Jerome Gouge</p>