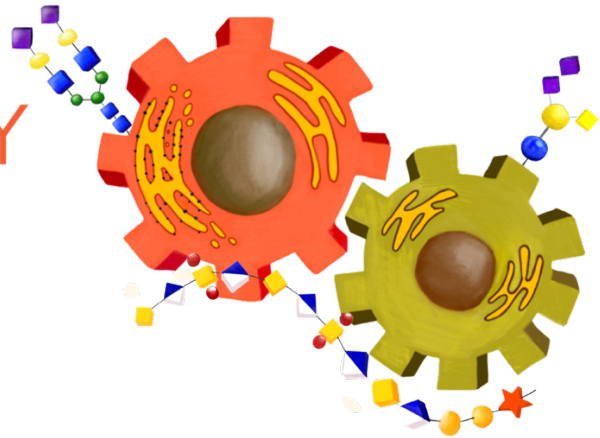
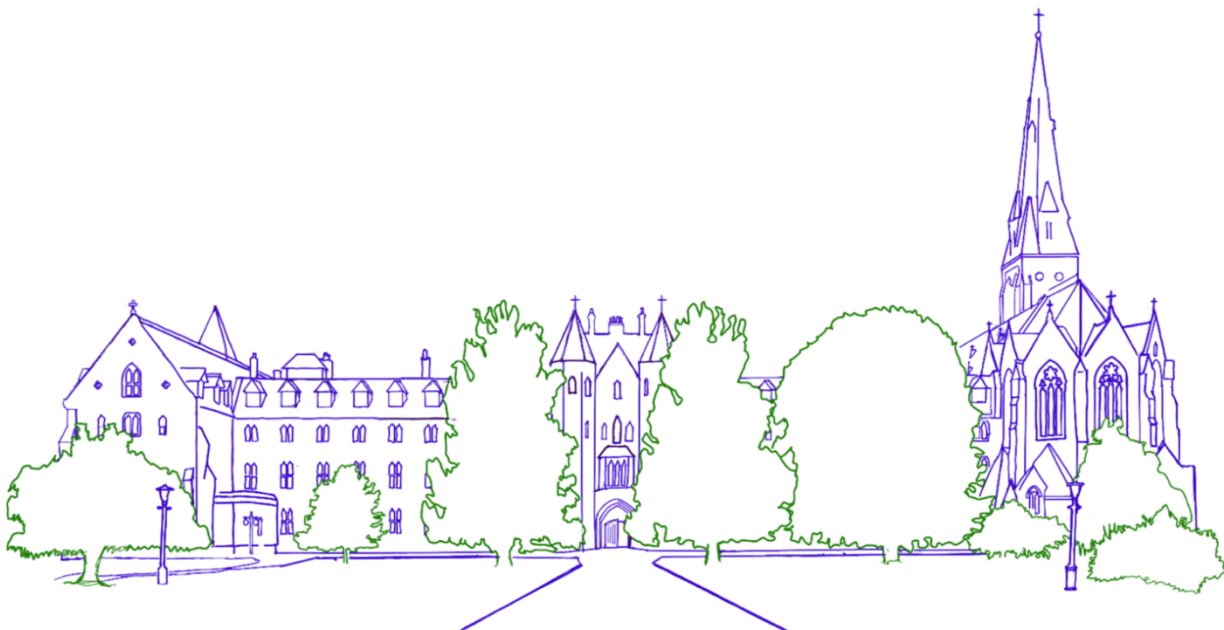


16th JENNER
GLYCOBIOLOGY
& MEDICINE
SYMPOSIUM



11-13 June 2025
TSI Building, Maynooth University
Maynooth | Ireland



WELCOME

Dear Colleagues,

We are pleased to invite you to the 16th Jenner Glycobiology and Medicine Symposium, organised by the Dept Chemistry at Maynooth University in Ireland, taking place from June 11th to 13th, 2025.

The Jenner Glycobiology and Medicine symposia were the first and main international multidisciplinary conferences set up to study the relevance of glycobiology to immunology, medicine and clinical practice. The symposia have been organised, since 1990, in collaboration with the Royal Society of Medicine with the aim of widening clinical participation and to actively promote and foster fruitful interaction and collaboration between glycobiologists and clinicians.

The 16th Jenner Glycobiology and Medicine symposium aims to provide an international forum for scientists and clinicians to disseminate the findings of current leading-edge research in the field of glycobiology. The program is devoted to addressing and integrating different aspects of glycobiology in physiological and pathological settings, including immunology, infection, cancer and neurological disorders. In addition to internationally renowned speakers, a number of poster and oral presentations were selected from the submitted abstracts, creating a stimulating discussion platform to address current and future challenges of Glycobiology and Glycotechnology. This year we introduce the “Rising Stars in Glycoscience” satellite conference to give a special opportunity for earlier career glycoscientists to present and learn from veterans in the field.

We look forward to welcoming you to the historic town of Maynooth. We sincerely hope you will enjoy the conference and find it both enlightening and gratifying.

Dr. Róisín O’Flaherty
Conference Chair



Scientific Committee



Dr. Róisín O'Flaherty



Prof. John Axford



Prof. Pauline Rudd



Prof. Celso A. Reis



Prof. Henrik Clausen



Prof. Claudine Kieda



Dr. Katrine Schjoldager



Prof. Nico Callewaert

Emeritus Members



Prof. Rita Gerardy-Schann



Prof. Ghislain Opdenakker

Organising Committee

Dr. Róisín O'Flaherty

Dr. Gordon Greville

Dr. Nezira Delagic

Dr. Trinidad Velasco-Torrijos

Dr. Catherine Bannon

Andreea Cislaru

Emily Harlin

Ismail Emre Yağmur

Áine O'Brien

Elizabeth Rozeboom

Barbara Woods

Aisha Jamal

PROGRAMME AT A GLANCE

	Wednesday 11 th June	Thursday 12 th June	Friday 13 th June	
09:30	Rising Stars Satellite Conference & Tours of Russell Library	Plenary Lecture 3- Prof Gunnar C. Hansson	Plenary Lecture 5- Dr Ryan Flynn	
10:10		Selected Talk 4 - Rajindra Aryal	Selected Talk 6 - Michelle Kilcoyne	
10:30		Speed Talk 5 - Rebecca Bennion	Speed Talk 15 - Joana Gomes	
10:40		Speed Talk 6 - Joseph J Barchi Jr	Speed Talk 16 - Radka Fahey (Saldova)	
10:50		Coffee Break	Coffee Break	
11:10		Speed Talk 7- Mathieu Decloquement	Dr Tomas Carroll & Orla Keane	
11:20		Speed Talk 8- Catarina Azevedo		
11:30		Speed Talk 9 - Ines Moreira	Speed Talk 17 - Leander Meuris	
11:40		Speed Talk 10 - Rafaela Abrantes	Speed Talk 18 - Andreea Cislaru	
11:50		Plenary Lecture 4- Dr Ana Magalhaes	Plenary Lecture 6- Dr Noortje de Haan	
12:30		Registration & Coffee Break	Poster Session with Lunch, Wine & Canapés	Lunch and Biodiversity Walk
12:40				
13:00				
14:00	Welcome Session (Prof Paul Moynagh, Chairperson and Prof John Axford)	Plenary Lecture 7- Prof Andres Salumets		
14:20	Plenary Lecture 1- Prof Yvette Van Kooyk			
14:30	Selected Talk 1 - Sandra van Vliet	Selected Talk 5 - Yusuke Mimura	Speed Talk 19 - Julia Vreugdenhil	
15:00	Speed Talk 1 - Jack Cheeseman	Speed Talk 11 - Cengiz Goekeri	Selected Talk 7 - Richard Drake	
15:10		Speed Talk 12 - Daniel Hornikx		
15:20	Speed Talk 2 - Aert Scheper	Speed Talk 13 - Padryk Merkyl	Awards and Closing Ceremony	
15:30	Coffee Break	Speed Talk 14 - Shasha Li		
15:40		Plenary Lecture 2- Dr Matthew Wilson	Coffee Break and Photoshoot (Outdoor Amphitheatre)	
15:50	Interview with Distinguished Scientist Professor Pauline Rudd in conversation with Professor John Axford			
16:00				
16:20				
16:30				
16:40				
16:40	Selected Talk 2 - Frederic Bard			
17:00	Speed Talk 3 - Mark Robinson			
17:10	Speed Talk 4 - Qianyue Zhang			
17:20	Selected Talk 3 - Nele Festjens			
17:40				
19:00	Committee Dinner (Carton House)	Conference Dinner (Pugin Hall)		

FULL SCIENTIFIC PROGRAMME

11 June 2025 Rising Stars Satellite Conference		
09:30-12:30	MU Science Museum, South Campus (requires pre-booking here)	Rising Stars Satellite Conference
10:00-12:00	MU South Campus (requires pre-booking here)	Tour of Russell Library
13:00-14:00	Registration and Coffee Break	

SLT=Selected Talk, **SPT**=Speed Talk

11 June 2025		
Session 1: Sialic Acid Biology: From Tumour Immunity to Tissue Engineering		
Chairs: John Axford and Róisín O’Flaherty		
14:00-14:20	Welcome Session with Prof Paul Moynagh	
14:20-15:00	Plenary Lecture 1	
	Yvette Van Kooyk , <i>Amsterdam UMC, The Netherlands</i>	Sialylation of the tumor microenvironment and its impact on immune suppression
15:00-15:20	SLT1: Sandra van Vliet , <i>Amsterdam UMC, The Netherlands</i> Site-specific reprogramming of the tumor-immune microenvironment through sialic acids	
15:20-15:30	SPT1: Jack Cheeseman , <i>Ludger Ltd, The United Kingdom</i> Potential sialic acid and glycomic biomarkers of cardiovascular disease	
15:30-15:40	SPT2: Aert Scheper , <i>CÚRAM Research Ireland Centre for Medical Devices, Ireland</i> IVD regeneration in a canine nucleus pulposus injury model – using sialylation inhibitor-loaded injectable hydrogels for IVD repair	
15:40-16:00	Coffee Break	
Session 2: Glycosylation Pathways: Mechanisms and Modulators		
Chairs: Katrine T. Schjolfager and Joseph J Barchi Jr		
16:00-16:40	Plenary Lecture 2	
	Matthew Wilson , <i>KU Leuven, Belgium</i>	Revising dolichol biosynthesis: an unexpected detour
16:40-17:00	SLT2: Frederic Bard , <i>Centre de Recherche en Cancérologie de Marseille, France</i> ER O-glycosylation in synovial fibroblasts drives cartilage degradation	
17:00-17:10	SPT3: Mark Robinson , <i>Maynooth University, Ireland</i> Assessing glycosylation enzyme expression in activated innate lymphocyte subpopulations.	
17:10-17:20	SPT4: Qianyue Zhang , <i>Leiden University Medical Center, The Netherlands</i> Obesity affects the adipocyte glycosylation machinery and N-glycan profiles in mice	
17:20-17:40	SLT 3: Nele Festjens , <i>VIB-Ugent Center for Medical Biotechnology, Belgium.</i> N-glycosylation engineering in chimeric antigen receptor T cells enhances anti-tumor activity	
19:00	Committee Dinner (Carriage House, Carton House Hotel)	

June 12 th 2025		
Session 3: Mucosal Glycobiology: Roles of Mucins and O-Glycans in Disease <i>Chairs: Henrik Clausen and Frederic Bard</i>		
09:30-10:10	Plenary Lecture 3	
	Gunnar C Hansson , University of Gothenburg, Sweden	The highly glycosylated mucins from different types of mucus that both inhibit and cause disease of the intestine and lung
10:10-10:30	SLT 4: Rajindra Aryal , Harvard Medical School, USA Unravelling the role of extended O-glycans in human biology: insight from the pathogenic variants of C1GALT1C1	
10:30-10:40	SPT 5: Rebecca Bennion , Cancer Research Center of Marseille, France Defining ER-localised O-glycosylation in pancreatic ductal adenocarcinoma	
10:40-10:50	SPT 6: Joseph J Barchi Jr , Centre for Cancer Research (IR) Rational Design of Mucin Glycopeptides as Tumor Immunotherapeutic Agents	
10:50-11:10	Coffee Break	
Session 4: Cancer Glycobiology <i>Chairs: Claudine Kieda and Gordon Greville</i>		
11:10-11:20	SPT 7: Mathieu Decloquement , University of Alberta, Edmonton, Canada Deciphering Siglec ligands in cancer to improve immunotherapy	
11:20-11:30	SPT 8: Catarina Azevedo , University of Porto, Porto, Portugal Glycoengineering of CD8+ T cell as a novel strategy to enhance T cell anti-tumor therapies	
11:30-11:40	SPT 9: Ines Moreira , Hannover Medical School, Germany Neolactotetraosylceramide enables urinary detection of bladder cancer	
11:40-11:50	SPT 10: Rafaela Abrantes , University of Porto (i3S), Portugal Novel CAR T formulations targeting tumor-associated glycoepitopes: a new strategy for solid tumors	
11:50-12:30	Plenary Lecture 4	
	Ana Magalhaes , University of Porto (i3S), Portugal	Heparan and chondroitin sulfate proteoglycans cellular switch and functional implications for gastric cancer
12:30-15:00	Poster Session + Lunch + Wine reception	
Session 5: Glycosylation and Immune Modulation in Disease <i>Chairs: Celso Reis and Noortje de Haan</i>		
15:00-15:20	SLT 5: Yusuke Mimura , NHO Yamaguchi Ube Medical Center, Japan Galactosylated and afucosylated glycoforms of intravenous immunoglobulin control inflammation	
15:20-15:30	SPT 11: Cengiz Goekeri , Charité - Universitätsmedizin Berlin, Germany Unravelling the role of terminal fucosylation in Pneumococcal Pneumonia	

15:30-15:40	SPT 12: Daniel Hornikx, Radboud University, The Netherlands Dissecting Siglec-15 ligand expression in thyroid cancer
15:40-15:50	SPT 13: Padryk Merkyl, ETH Zurich, Switzerland Mucin degrading enzymes – a platform to study their activity
15:50-16:00	SPT 14: Shasha Li, Queen's University Belfast, United Kingdom Development and testing of novel small molecule inhibitors for the manipulation of IgE glycosylation
16:00-16:30	Coffee Break and Photoshoot (Outdoor Amphitheatre)
16:30-17:50	<i>In Interview with Prof John Axford: Prof Pauline Rudd</i>
19:00	Conference Dinner (Pugin Hall, South Campus)

13 th June 2025			
Session 6: Glycoimmune Modulation: Mechanistic Insights from GlycoRNA to Host-Pathogen Interactions Chairs: Abhay Pandit and Yvette Van Kooyk			
09:30-10:10	Plenary Lecture 5		
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Ryan Flynn <i>Harvard University, USA</i></td> <td>GlycoRNA biology on the cell surface</td> </tr> </table>	Ryan Flynn <i>Harvard University, USA</i>	GlycoRNA biology on the cell surface
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10:10-10:30	SLT6: Michelle Kilcoyne <i>University of Galway, Ireland</i> Glycomics microarrays for profiling host immune-pathogen interactions and measuring adaptive immune response		
10:30-10:40	SPT 15: Joana Gomes <i>University of Porto (i3S), Portugal</i> ST6GAL1 role in antibody therapy response and immune evasion of colorectal cancer		
10:40-10:50	SPT 16: Radka Fahey (Saldova) <i>NIBRT, Ireland</i> Endometriosis specific vaginal microbiota links to urine and serum N-glycome		
10:50-11:10	Coffee Break		
Session 7: Glycobiotechnology Chairs: Nico Callewaert and Daniel Spencer			
11:10-11:30	Dr Tomas Carroll & Orla Keane , Alpha-1 Foundation Ireland Alpha-1 Antitrypsin Deficiency - Precision Medicine for COP		
11:30-11:40	SPT 17: Leander Meuris , <i>VIB-UGent Center for Medical Biotechnology, Belgium</i> Validation of the glycomics-based glycocirrhosis test as predictor of risk of HCC development in Cirrhosis		
11:40-11:50	SPT 18: Andreea Cislaru , <i>Maynooth University, Ireland</i> Chemoenzymatic strategy for single glycoform monoclonal antibody production		
11:50-12:30	Plenary Lecture 6		
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Noortje de Haan, <i>Leiden UMC, The Netherlands</i></td> <td>Cell Surface Glycoproteomics to Study the Differential Glycosylation of Cancer Glycoproteins</td> </tr> </table>	Noortje de Haan , <i>Leiden UMC, The Netherlands</i>	Cell Surface Glycoproteomics to Study the Differential Glycosylation of Cancer Glycoproteins
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12:30-14:30	Lunch and Biodiversity Walk (free event, requires booking here)		

Session 8: Glycosylation in Human Development and Disease

Chairs: Radka Saldova and Sandra von Vliet

14:30-15:10	Plenary Lecture 7	
	Andres Salumets <i>Karolinska Institute, Sweden</i>	Glycobiology of human conception
15:10-15:20	SPT 19: Julia Vreugdenhil <i>Genos Ltd, Croatia</i> De novo sequencing of human milk oligosaccharides using IM-MS	
15:20-15:40	SLT 7: Richard Drake <i>Medical University of South Carolina, USA.</i> Detection of immune cell glycosylation as an indicator of metabolic activity in the tumour tissue microenvironment using N-glycan and multiplexed-IHC mass spectrometry imaging	
15:40-16:00	<i>Award & Closing Ceremony</i> <i>Chair: Róisín O'Flaherty and Emily Harlin</i>	

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