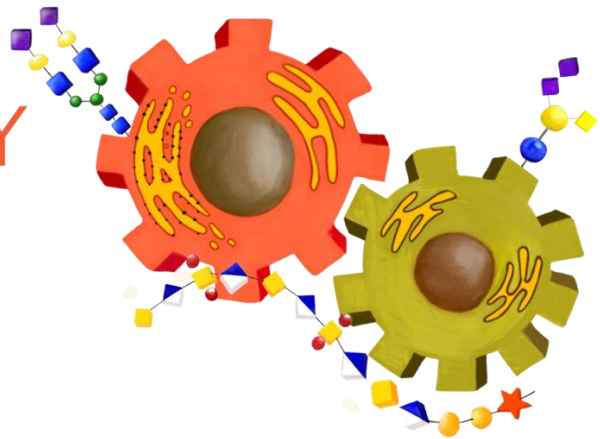
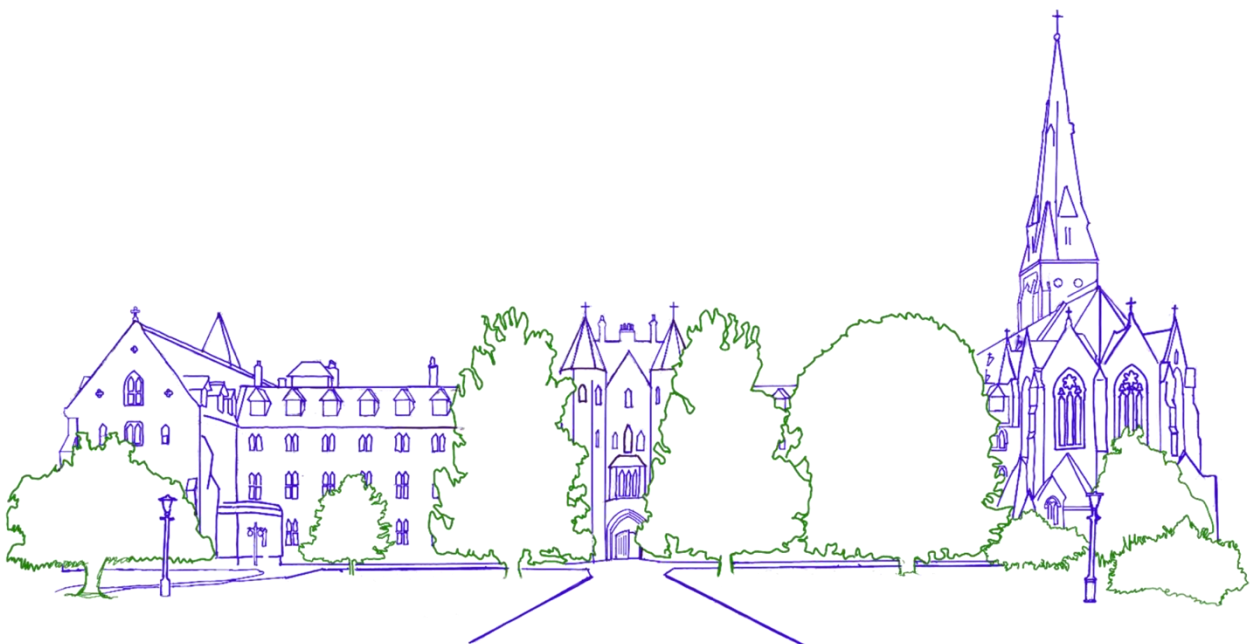


16th JENNER GLYCOBIOLOGY & MEDICINE SYMPOSIUM



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 T.Schjoldager	Prof. Nico Callewaert

Emeritus Members

Prof. Rita Gerardy-Schann	Prof. Ghislain Opdenakker
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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



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 President Eeva Leinonen	
14:20-15:00	Plenary Lecture 1	
	Yvette Van Kooyk, Amsterdam UMC, The Netherlands	Sialylation of the tumor microenvironment and its impact on immune suppression
15:00-15:20	SLT1: Sandra van Vliet, Amsterdam UMC, The Netherlands Site-specific reprogramming of the tumor-immune microenvironment through sialic acids	
15:20-15:30	SPT1: Jack Cheeseman, Ludger Ltd, The United Kingdom Potential sialic acid and glycomic biomarkers of cardiovascular disease	
15:30-15:40	SPT2: Aert Scheper, CÚRAM Research Ireland Centre for Medical Devices, Ireland 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, KU Leuven, Belgium	Revising dolichol biosynthesis: an unexpected detour
16:40-17:00	SLT2: Frederic Bard, Centre de Recherche en Cancérologie de Marseille, France ER O-glycosylation in synovial fibroblasts drives cartilage degradation	
17:00-17:10	SPT3: Mark Robinson, Maynooth University, Ireland Assessing glycosylation enzyme expression in activated innate lymphocyte subpopulations.	
17:10-17:20	SPT4: Qianyue Zhang, Leiden University Medical Center, The Netherlands Obesity affects the adipocyte glycosylation machinery and N-glycan profiles in mice	
17:20-17:40	SLT 3: Nele Festjens, VIB-Ugent Center for Medical Biotechnology, Belgium. N-glycosylation engineering in chimeric antigen receptor T cells enhances anti-tumor activity	
19:00	Committee Dinner	

June 12th 2025 Session 3: Mucosal Glycobiology: Roles of Mucins and O-Glycans in Disease
Chairs: Henrik Clausen and Frederic Bard

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 <i>O</i> -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 <i>O</i> -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 Chairs: Claudine Kieda and Gordon Greville		
11:10-11:30	SPONSORED TALK	
11:30-11:40	SPT7: Ines Moreira , Hannover Medical School, Germany Neolactotetraosylceramide enables urinary detection of bladder cancer	
11:40-11:50	SPT8: 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 Chairs: Celso Reis and Noortje de Haan		
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 9: Cengiz Goekeri , Charité - Universitätsmedizin Berlin, Germany Unravelling the role of terminal fucosylation in Pneumococcal Pneumonia	
15:30-15:40	SPT 10: Daniel Hornikx , Radboud University, The Netherlands Dissecting Siglec-15 ligand expression in thyroid cancer	

15:40-15:50	SPT 11: Joseph Zaia, Boston University School of Medicine, USA An on-slide tissue digestion multi-omic data-independent acquisition approach to identify the role of glycosylation in Alzheimer's Disease with Lewy body pathology
15:50-16:00	SPT 12: 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	
	Ryan Flynn <i>Harvard University, USA</i>	GlycoRNA biology on the cell surface
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 13: 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 14: 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 Joeseeph Zaia		
11:10-11:30	SPONSORED TALK 2	
11:30-11:40	SPT 15: Leander Meuris , <i>VIB-UGent Center for Medical Biotechnology, Belgium</i> Validation of the glycomics-based glycocirrhohet as predictor of risk of hcc development in cirrhosis	
11:40-11:50	SPT 16: Andreea Cislaru , <i>Maynooth University, Ireland</i> Chemoenzymatic strategy for single glycoform monoclonal antibody production	
11:50-12:30	Plenary Lecture 6	
	Noortje de Haan, <i>Amsterdam UMC, The Netherlands</i>	Cell Surface Glycoproteomics to Study the Differential Glycosylation of Cancer Glycoproteins
12:30-12:40	Prize Winners Ceremony Chairs: Emily Harlin and Nico Callwaert	
12:40-15:00	Lunch and Biodiversity Walk (free event, requires booking here)	

Session 8: Glycosylation in Human Development and Disease***Chairs: Radka Saldova and Sandra von Vliet***

15:00-15:40	Plenary Lecture 7	
	Andres Salumets <i>Karolinska Institute, Sweden</i>	Glycobiology of human conception
15:40-15:50	SPT 17: Julia Vreugdenhil <i>Genos Ltd, Croatia</i> De novo sequencing of human milk oligosaccharides using IM-MS	
15:50-16:10	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 <i>N</i> -glycan and multiplexed-IHC mass spectrometry imaging	
16:10-16:20	<i>Closing Ceremony</i> <i>Chair: Róisín O'Flaherty</i>	

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