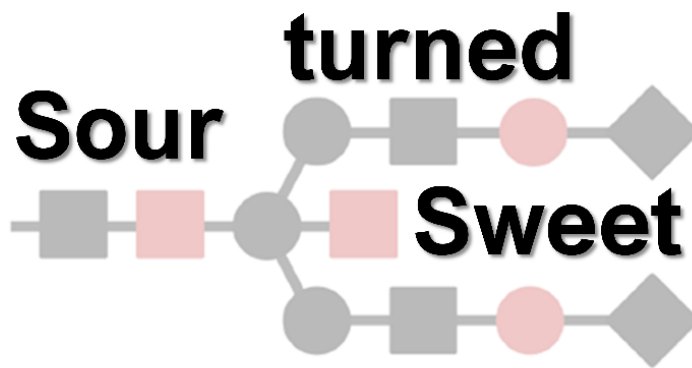


## Event programme



## Glycans Bridging Technology & Precision Medicine



*International Meeting  
of Young Researchers  
INNOGLY &  
GLYCONanoPROBES*

**20<sup>th</sup>-21<sup>st</sup> April**

**IASI  
2023**



**Location:** Grigore T. Popa University of Medicine and Pharmacy of Iasi, Nicolae Leon Building, Alexandru Braescu Hall, 6<sup>th</sup> Floor and MAVIS, 12<sup>th</sup> Floor, 13 Grigore Ghica Voda Street, 700259 Iasi, Romania

**DAY 1: 20<sup>th</sup> April 2023**

**Registration with coffee reception (13h00-14h00)**

**Opening ceremony (14h00-14h20)**

Prof. Adrian C. Covic, Pro-Rector for Research  
Lecturer Gianina Dodi, Organising Committee

**Session 1: Glycan-Mediated Molecular Interactions (14h20-16h20)**

**Chair: Najda Rudman**

**Plenary Lecture 1 – 14h20-15h20**

**Marko Anderluh:** Glycoscience Fights Bacterial Diseases: Case Studies of FimH and Galectin-8 Inhibitors

University of Ljubljana, Slovenia

**Oral Presentation 1 – 15h20-15h40**

**Maria Pia Lenza:** Structural Details of Siglec-8 in Complex with a Therapeutic Antibody and a High Affinity Glycomimetic

University of Naples Federico II, Italy

**Oral Presentation 2 – 15h40-16h00**

**Jonathan Ramírez-Cárdenas:** Novel Advanced STD NMR Methodology for Investigating Low Affinity Protein-Ligand Interactions

Instituto de Investigaciones Químicas, Spain

**Oral Presentation 3 – 16h00-16h20**

**Calum Haydon:** Glycan Functionalised Microbeads to Probe Bacteria-Sugar Interactions

University of Bristol, United Kingdom

**Coffee Break + Poster Session (16h20-17h00)**

**Session 2: Glycobiology in Health and Disease (17h-19h)**

**Chair: Cristiano Conceição**

**Oral Presentation 4 – 17h00-17h20**

**Kristina Zlatina:** Changes of Glycosylation of Porcine Antibodies During Postnatal Development

Research Institute for Farm Animal Biology, Germany

**Oral Presentation 5 – 17h20-17h40**

**Najda Rudman:** Plasma Protein and IgG N-Glycosylation Changes and Its Genetic Regulation at the Onset of Type 1 Diabetes

University of Zagreb, Croatia



Glycans Bridging Technology  
& Precision Medicine



**Oral Presentation 6 – 17h40-18h00**

**Andreea Cislaru:** Serum IgG N-Glycosylation in Nephropathic Cystinosis  
Maynooth University, Ireland

**Oral Presentation 7 – 18h00-18h20**

**Taya Bosson:** Perineuronal Nets as a Barrier Against Neuronal  $\alpha$ -Synuclein Internalisation  
University of Leeds, United Kingdom

**Oral Presentation 8 – 18h20-18h40**

**Parinaz Hobbi:** A Novel Approach to Osteoporosis Treatment: Polyphenolic-based Scaffold from Apple Waste  
Université libre de Bruxelles, Belgium

**Oral Presentation 9 – 18h40-19h00**

**Jack Schofield:** Changes in Human Corneal N-Glycosylation in Pathological Neovascularisation  
University of Galway, Ireland

**Social dinner (19h30)**



**Day 2: 21<sup>st</sup> April 2023**

**Session 3 – Glycosylation in Cancer (09h00-12h50)**

**Chair: Kristina Zlatina**

**Plenary Lecture 2 – 09h00-10h00**

**Sandra J. van Vliet:** Tumour-Associated Glycan Structures: Friend or Foe in Immunity to Cancer?

Vrije Universiteit Amsterdam, The Netherlands

**Oral Presentation 10 – 10h00-10h20**

**Adria Duran:** Evaluation of Specific Proteins Glycoforms as Tumour Markers for Pancreatic Cancer

University of Girona, Spain

**Oral Presentation 11 – 10h20-10h40**

**Ana Filipa Costa:** Fluorinated GalNAc as a Novel Inhibitor of Cancer-Associated O-Glycans in Gastrointestinal Cancers

University of Porto, Portugal

**Oral Presentation 12 – 10h40-11h00**

**Henrique Oliveira Duarte:** ST6Gal1 Modifies ErbB2 Trastuzumab-Binding Domain in a Site-Specific Manner to Support Molecular Resistance to Trastuzumab

University of Porto, Portugal

**Coffee Break + Poster Session (11h00-11h30)**

**Chair: Henrique Oliveira Duarte**

**Oral Presentation 13 – 11h30-11h50**

**Liliana Santos-Ferreira:** Glycosylation of Gastric Cancer Patient-Derived Organoids as a Model to Study Cancer Therapy

University of Porto, Portugal

**Oral Presentation 14 – 11h50-12h10**

**María del Carmen Padilla-Pérez:** Fluoroglycolipid Mimetics with Anti-Proliferative and Anti-Inflammatory Properties

University of Sevilla, Spain

**Oral Presentation 15 – 12h10-12h30**

**Anna Gratacós-Mulleras:** Development of a Paper-Based Biosensor for the Detection of Prostate Specific Antigen Sialoforms

University of Girona, Spain

**Oral Presentation 16 – 12h30-12h50**

**Rafaela Abrantes:** Development of Novel CAR-Ts Directed to Tumor-Associated Glycoepitopes

University of Porto, Portugal

**Lunch Break (12h50-13h50)**

#### **Session 4 – Young Career Development (13h50-14h10)**

**Chair: Cristina Di Carluccio**

##### **Oral Presentation 17 – 13h50-14h10**

**Amin Shavandi:** From Classroom to the World: How Studying and Working Abroad Can Enhance Your Career

Université libre de Bruxelles, Belgium

#### **Session 5: Glycan-Targeting Analytical Workflows (14h10-15h10)**

**Chair: Cristina Di Carluccio**

##### **Oral Presentation 18 – 14h10-14h30**

**Athira Tomy:** Saccharide Sensing Based on Anthraquinoline Redox Indicator Assay

Maynooth University, Ireland

##### **Oral Presentation 19 – 14h30-14h50**

**Julia Simińska-Stanny:** Engineering biomaterials using hydrogels based on hyaluronic acid

Université libre de Bruxelles, Belgium

##### **Oral Presentation 20 – 14h50-15h10**

**Pejman Ghaffari-Bohlouli:** Self-Generating and Preserving Oxygen and Hydrogen Peroxide Printable Hyaluronic Acid-Based reactive Oxygen Species Scavenger Hydrogel for Wound Healing

Université libre de Bruxelles, Belgium

#### **Coffee Break + Poster Session (15h10-15h40)**

**Chair: Cristina Santi**

##### **Oral Presentation 21 – 15h40-16h00**

**Idris Yazgan:** Surface Chemistry Dependent Antibacterial Activity of Glycoconjugate Nanoparticles through Carbohydrate-Lectin Interactions

Kastamonu University, Turkey

##### **Oral Presentation 22 – 16h00 -16h20**

**Filipe M. P. Morais:** Cationic Benzoporphyrins: Synthesis and Antimicrobial Activity

University of Aveiro, Portugal

##### **Oral Presentation 23 – 16h20-16h40**

**Hannah S. N. Crory:** Carbohydrate Functionalised Materials: Towards Antimicrobial Surfaces

University College Dublin, Ireland

##### **Oral Presentation 24 – 16h40-17h00**

**Entela Haloci:** Encapsulation of Essential Oils in  $\beta$ -Cyclodextrin and Their Biological Activity

University of Medicine, Tirana, Albania

### Oral Presentation 25 – 17h00-17h20

**Mariana M. de Carvalho:** Development of  $\beta$ -Glucans Coated Liposomes for Targeting to the Cells of the Immune System  
University of Oslo, Norway

### Oral Presentation 26 – 17h20-17h40

**Liam S. Fitzgerald:** Outcome of Docking of Some Simple Sialic Acid Derivatives to Influenza Hemagglutinin and Synthesis of Glycoclusters Based on Tetraphenylethylene Scaffold  
National University of Ireland Galway, Ireland

### Oral Presentation 27 – 17h40-18h00

**Gianina Dodi:** Glycoprotein-based biomarker role in cardiovascular disease prediction in hemodialysis patients with SARS-CoV-2 infection  
Grigore T. Popa University of Medicine and Pharmacy of Iasi, Romania

### Session 6 – Flash Presentations (18h00-18h30)

Chair: **Gianina Dodi**

#### Flash Presentation 1

**Alessandro Antonio Masi:** Exploring the Interaction Between Siglec-7 and Disialylated Gangliosides  
University of Naples Federico II, Italy

#### Flash Presentation 2

**Edvin Purić:** 2-Substituted Galactosides as Selective and Potent Galectin-8 Ligands  
University of Ljubljana, Slovenia

#### Flash Presentation 3

**Cristiano Conceição:** Identification of Novel Drug Targets in Mycobacterium Tuberculosis Using an Innovative Functional NMR Assay Targeting Arabinofuranosyltransferases  
Nova University of Lisbon, Portugal

#### Flash Presentation 4

**Eleni Kavetsou:** Novel Hybrid, Chemically Crosslinked Hydrogel Networks and their Application in Photodynamic Therapy  
National Technical University of Athens, Greece

#### Flash Presentation 5

**Rathna Mathiyalagan:** Compounding Tailored Veterinary Chewable Tablets Close to the Point-of-Care by Means of 3D Printing  
Åbo Akademi University, Finland

## Poster Presentations (7)

### Poster Presentation

**Alejandra Verhassel:** Novel *Vicia villosa* Lectin-Labeled Nanoparticles for Detection of Tn-Antigen of Tumour Cells  
University of Turku, Finland

### Poster Presentation

**Cristina Di Carluccio:** Multidisciplinary Approach to Study the  $\alpha$ 2–3-Sialylated O-Glycans Recognition by Siglec-Like Adhesins  
University of Naples Federico II, Italy

### Poster Presentation

**Miguel de Azevedo Moreira:** Studying the Activity, Substrate Specificity and Enzymatic Kinetics of Sialidase26 using qNMR  
University of Naples Federico II, Italy

### Poster Presentation

**Rotem Edri:** Glyco-Decorated Lipids for Targeted Drug Delivery  
The Hebrew University of Jerusalem, Israel

### Poster Presentation

**Cristina Santi:** Synthesis of Trehalose-Functionalised  $\mu$ -Bead for *S. aureus* Detection  
University of Bristol, United Kingdom

### Poster Presentation

**Fadak Howaili:** Fabrication of Stimuli-Responsive Nanogel for Drug Delivery Applications  
Åbo Akademi University, Finland

### Poster Presentation

**Alaa Mahran:** Rheological and *In-vitro* Evaluation of Xeno-Free Mesoporous Silica Nanocomposite Biomaterial Inks for 3D Printing  
Åbo Akademi University, Finland

### Poster Presentation

**Dinko Šoić:** Development of high-throughput glycoproteomic workflow for complement component C3 N-glycosylation analysis

### Closing ceremony (19h00)

Organizing Committee farewell

### Social night out (20h00)



**Funded by  
the European Union**

