



[www.eurocarb2011.org](http://www.eurocarb2011.org)  
[info@eurocarb2011.org](mailto:info@eurocarb2011.org)

# 16<sup>th</sup> European Carbohydrate Symposium

July 3<sup>rd</sup> - 7<sup>th</sup>, 2011  
Sorrento - Naples, Italy

## EUROCARB

## PROGRAMME



### Organizing Committee

University  
of Naples Federico II



Antonio Molinaro (Chair)  
Rosa Lanzetta (co-Chair)  
Michelangelo Parrilli  
Giovanni Palumbo  
Maria Michela Corsaro  
Cristina De Castro

In collaboration with

University  
of Milan-Bicocca



Francesco Nicotra (co-Chair)

University  
of Salerno



Raffaele Riccio

# SYMPOSIUM VENUE



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**LEGEND**

<b>PL</b>	<b><i>Plenary Lecture</i></b>
<b>AL</b>	<b><i>Award Lecture</i></b>
<b>IL</b>	<b><i>Invited Lecture</i></b>
<b>SP</b>	<b><i>Sponsor Lecture</i></b>
<b>OL</b>	<b><i>Oral Lecture</i></b>
<b>PO</b>	<b><i>Poster</i></b>

## PROGRAMME AT A GLANCE

Sunday, July 3<sup>rd</sup>

15:00 - 17:00	Registration
17:00 - 18:00	<b>Opening Ceremony</b>
18:00 - 19:40	<b>Award Lectures</b>
20:30	Get-Together Reception

Monday, July 4<sup>th</sup>

8:30 - 10:40	<b>Plenary Session</b>
10:40 - 10:55	<b>Sponsor Session</b> - Grace Davison
10:55 - 11:30	Coffee Break

**Concurrent Sessions**

11:30 - 13:15	AUDITORIUM SIRENE Chemical and Enzymatic Synthesis
	ROOM NETTUNO 1 Glycobiology and Glycomedicine
	ROOM NETTUNO 4 Glycobiology and Glycomedicine (Bacterial Glycans I)
11:30 12:00	ROOM NETTUNO 5+6 Glycobiology and Glycomedicine
12:00 13:15	Biologically Active Polysaccharides

13:15 - 14:30	Lunch
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14:30 - 16:00	<b>Poster Session 1</b>
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16:00 - 16:50	<b>Plenary Session</b>
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16:50 - 17:05	<b>Sponsor Session</b> - Dionex
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17:05 - 17:30	Coffee Break
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**Concurrent Sessions**

17:30 - 19:45	AUDITORIUM SIRENE Chemical and Enzymatic Synthesis (Cyclodextrins, Nucleosides and their Derivatives)
	ROOM NETTUNO 1 Glycobiology and Glycomedicine
	ROOM NETTUNO 4 Chemical and Enzymatic Synthesis
	ROOM NETTUNO 5+6 Glycobiology and Glycomedicine (Neuroglycobiology)

## PROGRAMME AT A GLANCE

Tuesday, July 5<sup>th</sup>

9:00 - 10:40	<b>Plenary Session</b>
10:40 - 11:10	Coffee Break
	<b>Concurrent Sessions</b>
	AUDITORIUM SIRENE Chemical and Enzymatic Synthesis
11:10 - 12:55	ROOM NETTUNO 1 Chemical and Enzymatic Synthesis
	ROOM NETTUNO 4 Glycobiology and Glycomedicine
	ROOM NETTUNO 5+6 Glycobiology and Glycomedicine (Parasite Glycobiology/Eucariotic Glycobiology)
13:15 - 14:30	Lunch
14:30 - 16:00	<b>Poster Session 2</b>
16:00 - 16:50	<b>Plenary Session</b>
16:50 - 17:05	<b>Sponsor Session - ABSciex</b>
17:05 - 17:30	Coffee Break
	<b>Concurrent Sessions</b>
17:30 - 19:15	AUDITORIUM SIRENE Chemical and Enzymatic Synthesis (Glyco-Enzymes I)
17:30 18:00	ROOM NETTUNO 1 Glyco-Biotechnology
18:00 19:15	New Tools and Glyco-Biotechnology
	ROOM NETTUNO 4 Glycobiology and Glycomedicine
17:30 18:00	ROOM NETTUNO 5+6 Chemical and Enzymatic Synthesis
18:00 19:15	Glycobiology and Glycomedicine

**PROGRAMME AT A GLANCE**

**Wednesday, July 6<sup>th</sup>**

9:00 - 10:40 **Plenary Session**

10:40 - 11:10 Coffee Break

**Concurrent Sessions**

11:10 - 12:55

AUDITORIUM SIRENE  
Chemical and Enzymatic Synthesis

ROOM NETTUNO 1  
Glycobiology and Glycomedicine

ROOM NETTUNO 4  
Glycobiology and Glycomedicine (Bacterial Glycans II )

11:10

11:40

ROOM NETTUNO 5+6  
Glycobiology and Glycomedicine

11:40

12:55

Glycobiology and Glycomedicine (Glyco-enzymes II)

## PROGRAMME AT A GLANCE

Thursday, July 7<sup>th</sup>

9:00 - 10:40	<b>Plenary Session</b>
10:40 - 11:10	Coffee Break
	<b>Concurrent Sessions</b>
11:10 - 12:55	AUDITORIUM SIRENE Chemical and Enzymatic Synthesis
	ROOM NETTUNO 1 Glycobiology and Glycomedicine
	ROOM NETTUNO 4 Chemical and Enzymatic Synthesis
11:10 - 11:40	ROOM NETTUNO 5+6 New Tools for Structural Analysis
11:40 - 12:55	Chemical and Enzymatic Synthesis
13:15 - 14:30	Lunch
14:30 - 16:30	<b>Concurrent Sessions</b>
14:30 - 15:00	AUDITORIUM SIRENE Glycobiology and Glycomedicine
15:00 - 16:15	Glycobiology and Glycomedicine (Glycoconjugate Vaccines)
14:30 - 15:00	ROOM NETTUNO 1 Glyco-Biotechnology
15:00 - 16:15	Chemical and Enzymatic Synthesis
14:30 - 15:00	ROOM NETTUNO 4 Chemical and Enzymatic Synthesis
15:00 - 16:15	New Tools and Glycol-Biotechnology
	ROOM NETTUNO 5+6 Chemical and Enzymatic Synthesis
16:30 - 16:50	Coffee Break
16:50 - 18:05	AUDITORIUM SIRENE Glycobiology and Glycomedicine
	ROOM NETTUNO 1 Chemical and Enzymatic Synthesis
18:05	<b>Poster Awards, Eurocarb 17 presentation and Closing Remarks</b>
20:30	Social Dinner

## Symposium Venue

*Hilton Sorrento Palace – Congress Centre*  
*Via S. Antonio, 13*  
*80067 Sorrento (Italy)*  
*Tel. +39 081 8784141*  
*Fax. +39 081 8783933*

## Organizing Secretariat

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*Via S. Nicola, 4*  
*80067 Sorrento (Italy)*  
*Tel. +39 081 8770604*  
*Fax. +39 081 8770258*  
*info@eurocarb2011.org*  
*info@yesmeet.it*

## Symposium Chairman

*Prof. Antonio Molinaro*  
*Dipartimento di Chimica Organica e Biochimica*  
*Università di Napoli Federico II*  
*Complesso Universitario Monte Sant' Angelo*  
*Via Cintia, 4*  
*80126 Napoli (Italy)*  
*Tel. +39 081 674123*  
*molinaro@unina.it*

## Welcome

*The European Carbohydrate Organisation (ECO) and the Organizing Committee cordially welcome all participants, exhibitors and accompanying persons to Sorrento for the 16th European Carbohydrate Symposium.*



## WELCOME ADDRESS

Naples, 8<sup>th</sup> June

Dear friends and colleagues,

*The European Carbohydrate Organization (ECO) and the Local Organizing Committee cordially welcome you at the 16th European Carbohydrate Symposium (Eurocarb16), in Sorrento (Napoli) in July 3rd -7th, 2011, during the International Year of Chemistry.*

*At the moment I am writing this message, more than 650 participants representing 46 different countries have registered; the scientific program will deal with all the chemical, biological, biophysical and biotechnological aspects of carbohydrates, and will cover more than 150 Oral communications, 28 Invited lectures, 10 Plenary lectures, two Awarded plenary lectures as well as almost 400 Poster contributions. The Organisers would like to thank the members of the Scientific Advisory Board for the help and scientific guidance in planning and compiling the final program which foresees the presence of state-of-art Glycomics delivered by internationally recognized colleagues.*

*The meeting will take place in Sorrento at Hilton Sorrento Palace and it is organised by University of Napoli Federico II. It is indeed a very special occasion because it is the first time that such an important meeting is organised in Italy. Following the tradition of the previous meetings, the Emil-Fischer Carbohydrate Award and the Carbohydrate Research Award will be presented during the opening ceremony.*

*There will be two poster sessions and the organizers thank the European Journal of Organic Chemistry (Wiley WCH) and the European Polysaccharide Network Of Excellence (EPNOE) for donation of poster prizes. In addition, one plenary lecture is kindly sponsored by Starch Journal (Wiley WCH).*

*The financial support by many organizations and companies is gratefully acknowledged and has been pivotal to keep the fees for students at a very competitive level and to include for all kind of registrations the Symposium Banquet within the registration fee.*

*The symposium will be opened by a Welcome Reception after the two Award lectures, and from Monday on it will develop in four parallel sessions; the Wednesday afternoon is left for excursions and for the first time, the Symposium will be closed on Thursday evening by Symposium Banquet.*

*On behalf of the organizing committee I wish you a scientifically productive Eurocarb 16!*

Sincerely,

Antonio Molinaro  
Symposium Chair

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**ECO-MEMBERS AND PREVIOUS EUROCARB SYMPOSIA**


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**EUROPEAN CARBOHYDRATE ORGANIZATION (ECO)**

President	Paul Kosma, Austria
Past President	Otto Holst, Germany
Secretary	Benjamin Davis, United Kingdom
Symposium Chairman	Antonio Molinaro, Italy

**NATIONAL REPRESENTATIVES**

Austria	P. Kosma
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Switzerland	B. Ernst
Ireland	A. Savage
The Netherlands	J. P. Kamerling
Italy	F. Nicotra
United Kingdom	B. Davis
Israel	T. Baasov

**PAST EUROCARB SYMPOSIA**

<b>Year</b>	<b>Location</b>	<b>Chairperson</b>
1981	Wien, Austria	Frank M. Unger
1983	Budapest, Hungary	Rezsoe Bognar
1985	Grenoble, France	Jacques Defaye
1987	Darmstadt, Germany	Frieder Lichtenthaler
1989	Prague, Czech Republic	Miloslav Czerny
1991	Edinburgh, UK	Grant Buchanan
1993	Cracow, Poland	Alexander Zamojski
1995	Seville, Spain	Manuel Martin-Lomas
1997	Utrecht, The Netherlands	Hans Vliegthart
1999	Galway, Ireland	Angela Savage
2001	Lisbon, Portugal	Amélia Rauter
2003	Grenoble, France	Serge Perez
2005	Bratislava, Slovak Republic	Ján Hirsch
2007	Lübeck, Germany	Otto Holst
2009	Wien, Austria	Paul Kosma

**LOCAL ORGANIZING COMMITTEE**

**Chair:** *Antonio Molinaro (Università di Napoli Federico II)*

**Co-Chairs:** *Rosa Lanzetta (Università di Napoli Federico II)*  
*Francesco Nicotra (Università di Milano Bicocca)*

*Maria Michela Corsaro (Università di Napoli Federico II)*

*Cristina De Castro (Università di Napoli Federico II)*

*Giovanni Palumbo (Università di Napoli Federico II)*

*Michelangelo Parrilli (Università di Napoli Federico II)*

*Raffaele Riccio (Università degli Studi di Salerno)*

**EUROPEAN SCIENTIFIC ADVISORY BOARD**

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29. *D. Bonnaffé, France*
30. *L. Wyns, Belgium*
31. *S. Tomic-Pisarovic, Slovenia*

*\*(Passed away)*

**THE EMIL FISCHER CARBOHYDRATE AWARD**

The Emil Fischer Carbohydrate Award has been established by the European Carbohydrate Organization in order to honor active carbohydrate scientists distinguished with contributions of excellence. Following Richard R. Schmidt as the first awarded in 2009, the Emil Fischer Award 2011 will be presented to David Crich in recognition of his outstanding accomplishments in vital areas of glycochemistry.

Prof. Crich will present a plenary lecture on his work at the Eurocarb conference.



## CARBOHYDRATE RESEARCH AWARD



The *Carbohydrate Research Award* for Creativity in Carbohydrate Chemistry is given every two years to a carbohydrate scientist, no older than 15 years past the PhD, who has made significant original contributions to the field, in its broadest sense. The Award consists of a cheque for \$1000, a certificate and a complimentary subscription to the journal for two years. The 2011 Award is presented to Professor Matthieu Sollogoub, Professor of Molecular Chemistry at the Université Pierre et Marie Curie-Paris 6, Sorbonne Universités, Paris, France.

The research in Professor Sollogoub's group focuses on carbohydrates in the broadest sense ranging from monosaccharides, carbasugars, iminosugars, nucleotides to cyclodextrins and polysaccharides. It includes organic synthesis and methodology, inhibitor design, molecular probing of enzyme mechanism, supramolecular chemistry and catalysis. Notable recent achievements have included the development of novel methods for the site-selective functionalisation of cyclodextrins, the development of novel methodology for iminosugar and carbasugar synthesis, with the introduction of fluoro-carbasugars, the identification of cyclodextrin-based catalysts for asymmetric synthesis, with the new concept of pseudo-enantiomerism and the development of supramolecular cross-linking agents for carbohydrate-based biopolymers. Professor Sollogoub has recently been appointed to the Institut Universitaire de France (IUF), an elite French institution, in recognition of his contributions to teaching and research in chemistry in general and in carbohydrate science in particular.

Previous winners of the *Carbohydrate Research Award* for Creativity in Carbohydrate Chemistry:

2001 Laura L. Kiesling, University of Wisconsin-Madison, USA

2003 Geert-Jan Boons, University of Georgia, USA

2005 Peter H. Seeberger, Eidgenössische Technische Hochschule Zürich, Switzerland

2007 Todd L. Lowary, University of Alberta, Canada

2009 Benjamin G. Davis, Oxford University, United Kingdom

## ACKNOWLEDGEMENTS



Con il Patrocinio della Provincia di Napoli  
Questa iniziativa è contro il "Sistema" della camorra



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## GENERAL INFORMATION

### Symposium Venue

16<sup>th</sup> Eurocarb Symposium will take place at the Hilton Sorrento Palace Congress Centre – Sorrento, Italy (Address: Via Sant'Antonio, 13 – Sorrento).

### Opening Registration

Registration procedure starting from July 3<sup>rd</sup>, 2011 h. 15.00 onwards.

### Instruction for poster presentation

Presenting authors are asked to be in attendance at their posters for the designated Poster Sessions. Posters will be numbered as indicated in the present Booklet and a corresponding numbered poster board will be available for attaching your presentation at the appropriate time in the display area. Please note that the display time of the posters will be divided in two groups during the Congress, as determined by the number assigned to your presentation.

**Poster Session I (authors present Monday, July 4<sup>th</sup>, 14:30 to 16:00)** includes posters with numbers from 1 to 190 (included), which can be mounted starting from **Sunday July 3<sup>rd</sup> after registration and displayed until Tuesday July 5<sup>th</sup> at 9:00**. Posters must be removed within this time. Any remaining posters will be removed by the organizers and discarded.

**Poster Session II (authors present Tuesday, July 5<sup>th</sup>, 14:30 to 16:00)** includes posters with numbers greater than 190, which can be mounted starting from **Tuesday July 5<sup>th</sup> at 10:40 and displayed until Thursday July, 7<sup>th</sup>**.

The posters should be attached to the poster board with the provided material. The use of tacks, pins, staples etc. or any other material that could perforate or damage the board stands is strictly prohibited.

### Instructions for speakers

Speakers are required to deliver their Power Point files with a USB pendrive to the Slide Centre (Floor C in front of the Registration Desks) one day before their scheduled talks. Please check your presentation on the available PC.

The default system for presentations supports Microsoft WINDOWS (not MAC) platforms for the latest versions of Powerpoint® slides.

If your presentation includes any video the required file type is .avi

Technicians will transfer the file directly on the computer in the designated lecture room.

### Badge

All participants, accompanying persons and exhibitors are kindly asked to wear the provided name badge in the conference areas.

### Internet connection

Free internet connection points (with computers) are provided in the Congress Hall area. Please limit your access time to allow everybody to use them. In the Hotel there is wireless Internet access available for a cost: search for Swisscom Wi-Fi access point or ask at the Hotel Reception desk to obtain information. Additional stations are available for a cost at the Business Centre in front of the Hotel reception desk and the Bar.

**Get-together Reception** (included in the registration)

On Sunday July 3<sup>rd</sup> at 20.30 a Get-together Reception will be offered for all Congress participants and accompanying persons at the panoramic Restaurant S. Antonio on the 2<sup>nd</sup> floor of the Hilton Sorrento Palace.

**Coffee stations and Lunches** (included in the registration: see the Program)

Coffee stations have been set up in different locations throughout the Congress venue.

Lunches will be served Monday, Tuesday and Thursday, h. 13.15 at the panoramic Restaurant S. Antonio on the 2<sup>nd</sup> floor of the Hilton Sorrento Palace. Please present the ticket provided in the Delegate package. If you have a special food requirements, please inform your waitress.

**Symposium afternoon Excursions** (not included in the registration)

On Wednesday July 6<sup>th</sup> for those who have booked one of the proposed excursions the meeting point is at the Hall of the Congress Centre with the following schedule:

Capri at h.13:50

Pompeii, Herculaneum, Amalfi Coast at h. 15:00

**Symposium Dinner** (included in the registration)

Thursday July 7<sup>th</sup> at 20.30 a Social Dinner will be held at the Hilton Sorrento Palace in the Garden L'Agumeto or in another Restaurant at the Hotel, depending on weather.

**Accompanying persons package**

Accompanying persons have access to Get-Together Reception, Symposium Dinner and the following two tours: **Sorrento Orientation Tour** on Monday 4<sup>th</sup> and **Pompeii ruins half day** on Thursday 7<sup>th</sup>. The time schedule for each excursion is specified on the ticket you will find in the Accompanying persons kit.

**Other useful info**

Once in Sorrento, tickets for the local Buses and Circumvesuviana train can be purchased at the train station, newspaper stands ("Edicola") or tobacco/cigarette shops ("Tabaccheria" or "Tabaccaio").

Monetary exchange service is provided by the hotel and most banks (normally open from 8:30 to 13:30). An ATM/Bancomat machine is located in the Hotel Reception Area.

July in Sorrento is the summer high season. Shops open around 9.30 am and close around 10.00 pm. Some shops have non-stop opening hours, but many are closed between 13.30 and 16.00.

In general, the shops in the historical Sorrento centre or in other tourist zones have continuous opening hours. Post Office is open from Monday to Friday from 8.00 to 18.30, and on Saturdays from 8.00 to 12.30. Banks and exchange offices are open from Monday to Friday.



14.30 – 16.00 **Poster Session 1 – Foyer Sirene and Room Nettuno**

16.00 – 17.05 **Auditorium Sirene**

*Chair: Feldman M.*

16.00 – 16.50 **PL 03 Aebi M.**  
The Unique System of N-Linked Protein Glycosylation

16.50 – 17.05 **SP 02 DIONEX**  
Capillary Ion Chromatography in Carbohydrate Analysis

**17.05 – 17.30** *Coffee break*

**17.30 – 19.45** *Concurrent Sessions*

**TUESDAY, JULY 5<sup>TH</sup>**

9.00 – 10.40 **Auditorium Sirene**

*Chair: Woods R. J.*

9.00 – 9.50 **PL 04 Jimenez-Barbero J.**  
The Specific Interaction of Carbohydrates with Proteins. A 3D View By Using NMR

*Chair: Oscarson S.*

9.50 -10.40 **PL 05 Bernardi A.**  
Recent Advances in Oligosaccharide Mimics

**10.40 – 11.10** *Coffee break*

**11.10 - 13.05** *Concurrent Sessions*

**13.05 – 14.30** *Lunch (Restaurant S. Antonio)*

14.30 – 16.00 **Poster Session 2 – Foyer Sirene and Room Nettuno**

16.00 – 17.05 **Auditorium Sirene**

*Chair: Moracci M.*

16.00 - 16.50 **PL 06 Davies G.**  
Glycosidases: Conformations and Inhibitor Design/Application to Modify Glycosylations

16.50 – 17.05 **SP 03 ABSCEIX**  
Singlycan Software - A Predictive Carbohydrate and Glycopeptide Analysis Tool for MS/MS Data

17.05 – 17.30 *Coffee break*  
17.30 – 19.15 *Concurrent Sessions*

WEDNESDAY, JULY 6<sup>TH</sup>

9.00 – 10.40 **Auditorium Sirene**

*Chair: Knirel Y.*

9.00 – 9.50 **PL 07 Imberty A.**  
The Sweet Tooth of Pathogens: Structure and Function of Lectins  
from Opportunistic Bacteria

*Chair: Bonnaffé D.*

9.50 – 10.40 **PL 08 Mulloy B.**  
Glycosaminoglycan Sulfation Patterns and Interactions with  
Proteins

10.40 – 11.10 *Coffee break*  
11.10 – 13.05 *Concurrent Sessions*  
13.05 *Free Afternoon*

THURSDAY, JULY 7<sup>TH</sup>

9.00 – 10.40 **Auditorium Sirene**

*Chair: Unverzagt C.*

9.00 – 9.50 **PL 09 Davis B.**  
Sugars & Proteins: Some Biophysical Organic Chemistry of Sugars

*Chair: Berisio R.*

9.50 – 10.40 **PL 10 Lee J.**  
Recognition of LPS Pattern by TLR4-MD2 Complex

10.40 – 11.10 *Coffee break*  
11.10 – 13.05 *Concurrent Sessions*

13.05 – 14.30 *Lunch ( Restaurant S. Antonio)*

14.30 – 16.30 *Concurrent Sessions*

16.30 – 16.50 *Coffee break*

16.50 – 18.05 *Concurrent Sessions*

18.05 **Auditorium Sirene**  
Posters Awards, Eurocarb 17 Presentation, Closing Remarks

20.30 *Social Dinner (Garden Restaurant Agrumeto)*

## CONCURRENT SESSIONS

MONDAY, JULY 4<sup>TH</sup>

11.30 – 13.15

*Auditorium Sirene*

## CHEMICAL AND ENZYMATIC SYNTHESIS

*Chair: Baasov T.*

11.30 – 12.00

**IL 01 Ito Y.**

Synthesis of Eukaryotic and Bacterial Glycans

*Chair: Payne R. J.*

12.00 – 12.15

**OL 01 Iadonisi A.**

The Iodine/Triethylsilane System: a Versatile Combination with Multiple Applications in Synthetic Carbohydrate Chemistry

12.15 – 12.30

**OL 02 Nikolaev A. V.**Towards Synthetic Glyconjugates Based on the Structures of *Neisseria Meningitidis* a Capsular Polysaccharide

12.30 – 12.45

**OL 03 Fairbanks A.**

New Approaches to Stereochemical Control; Applications of Asymmetric Catalysis and New Types of Neighbouring Group Participation

12.45 – 13.00

**OL 04 Unverzagt C.**

Semisynthesis of Glycoforms of Human Interleukin 6

13.00 – 13.15

**OL 102 Walvoort M. T. C.**

Comprehensive Study Towards the Synthesis of Azide-Containing Mannuronates

MONDAY, JULY 4<sup>TH</sup>

11.30 – 13.15

*Room Nettuno 1*

## GLYCOBIOLOGY AND GLYCOMEDICINE

*Chair: Kitaoka M.*

11.30 – 12.00

**IL 03 Křen V.**Promiscuity of Fungal  $\beta$ -N-Acetylhexosaminidases

*Chair: Fieschi F.*

- 12.00 – 12.15     **OL 11**     **Muñoz-García J. C.**  
On the Conformation of the L-Iduronate Ring in Synthetic Heparin Like Trisaccharide Models: Influence of Adjacent Residues
- 12.15 – 12.30     **OL 12**     **Castro I.**  
Low Sulfotransferases Activities Is Linked to Mucin Hyposulfation in Salivary Glands from Sjögren's Syndrome Patients
- 12.30 – 12.45     **OL 13**     **Laguri C.**  
13C-Labeled Heparan Sulfate Analogue as a Tool to Study Protein/Heparan Sulfate Interaction. Application to the Cxcl12 $\alpha$  Chemokine
- 12.45 – 13.00     **OL 14**     **Hoffmann-Röder A.**  
Fluorinated Muc1 Glycopeptide Analogs
- 13.00 – 13.15     **OL 15**     **Colombo C.**  
Synthesis and Conformation Evaluation of  $\alpha$ -N- Linked Glycopeptides

**MONDAY, JULY 4<sup>TH</sup>**

**11.30 – 13.15**     *Room Nettuno 4*  
**GLYCOBIOLOGY AND GLYCOMEDICINE**  
**(BACTERIAL GLYCANS I)**

*Chair: Whitfield D.*

- 11.30 – 12.00     **IL 04**     **Silipo A.**  
Protein-Carbohydrate Interactions at Host Pathogen Interface

*Chair: Holst O.*

- 12.00 – 12.15     **OL 06**     **Newman M. A.**  
Innate Immunity: Plant Recognition of Bacterial MAMPs
- 12.15 – 12.30     **OL 147**     **Adamo R.**  
Synthesis of C. Difficile Ps-II Cell Wall Polysaccharide Repeating Unit
- 12.30 – 12.45     **OL 08**     **Cescutti P.**  
Polysaccharides of Biofilms Produced by Burkholderia Cepacia Complex Bacteria

- 12.45 – 13.00    **OL 09**    **Knirel Y. A.**  
Structures of the O-antigens of Cronobacter Sakazakii
- 13.00 – 13.15    **OL 10**    **Rombouts Y.**  
Structural and Functional Analysis of the Cell Wall  
Lipooligosaccharides (LOSs) of Mycobacterium Marinum

**MONDAY, JULY 4<sup>TH</sup>**

**11.30 – 13.15**    *Room Nettuno 5+6*  
**GLYCOBIOLOGY AND GLYCOMEDICINE**

*Chair: Mulloy B*

- 11.30 – 12.00    **IL 02**    **Hricovini M.**  
Structure of Heparin Oligosaccharides. Reconciliation of  
Theoretical and Experimental NMR Data

**BIOLOGICALLY ACTIVE POLYSACCHARIDES**

*Chair: Guerrini M.*

- 12.00 – 12.15    **OL 16**    **Kungl A. J.**  
Targeting Glycosaminoglycans by a Decoy Cxcl8 Protein Leads to  
Potent Anti-Inflammatory Activity in Murine Lung Inflammation  
Models of COPD
- 12.15 – 12.30    **OL 17**    **Angulo J.**  
NMR Studies of the Interactions of Langerin with Sulfated  
Glycans
- 12.30 – 12.45    **OL 18**    **Restaino O. F.**  
Enhancement of Chondroitin-Like Escherichia Coli K4 Capsular  
Polysaccharide Production by Monosaccharide Supplementation
- 12.45 – 13.00    **OL 19**    **Samsonov S.**  
Computational Analysis of Interleukin-8 Interactions with  
Hyaluronan and Chondroitin-Sulfate Derivatives
- 13.00 – 13.15    **OL 20**    **Ciancia M.**  
A Highly Sulfated Pyranosic (1-3)- $\beta$ -L-Arabinan with  
Anticoagulant Activity. Mechanism of Action

MONDAY, JULY 4<sup>TH</sup>

**17.30 – 19.30**     **Auditorium Sirene**  
**CHEMICAL AND ENZYMATIC SYNTHESIS**  
**(CYCLODEXTRINS, NUCLEOSIDES AND THEIR DERIVATIVES)**

*Chair: Schmidt R.*

17.30 – 18.00     **IL 05**     **Meier C.**  
Cyclosal-Nucleotides as Precursors of Nucleoside-mono- and –  
Diphosphate-Sugars

*Chair: Meier C.*

18.00 – 18.15     **OL 27**     **Ekholm F. S.**  
Synthesis and NMR-Spectroscopic Characterization of a Wide  
Range of Glycoconjugates

18.15 – 18.30     **OL 28**     **Montesarchio D.**  
CyPLOS, Novel Carbohydrate-Based Synthetic Ion Transporters

18.30 – 18.45     **OL 29**     **Djedaini-Pilard F.**  
Nanovectors Based on Cyclodextrins

18.45 – 19.00     **OL 30**     **Funane K.**  
Extracellular Production of Cycloisomaltooligosaccharide  
Glucanotransferase and Cyclodextran by the Bacillus Subtilis  
Host-Vector System

19.00 – 19.15     **OL 31**     **Scheibe C.**  
Pna-Sugar Conjugates as Tools for the Spatial Screening of  
Carbohydrate-Lectin Interactions

19.15 – 19.30     **OL 32**     **Benito J. M.**  
Glycoated Cyclodextrin (CD): pDNA Nanoparticles  
(glycoCDplexes) for Site- Specific Gene Delivery

MONDAY, JULY 4<sup>TH</sup>

- 17.30 – 19.30     **Room Nettuno 1**  
**GLYCOBIOLOGY AND GLYCOMEDICINE**
- Chair: Wittmann V.*
- 17.30 – 18.00     **IL 06     Rojo J.**  
Targeting DC-Sign By Carbohydrate Multivalent Systems
- Chair: Rojo J.*
- 18.00 – 18.15     **OL 33     Siriwardena A.**  
Synthesis & Biological Activity of a Library of Functional “Glyco”-  
Foldamers
- 18.15 – 18.30     **OL 34     Richichi B.**  
Multivalent Carbohydrate-Based Systems of a Synthetic Analogue  
of a Melanoma Associated Antigen: Immunological and  
Antiadhesive Evaluation
- 18.30 – 18.45     **OL 35     Reichardt N. C.**  
Lectin-Array Blots: Analysis of Protein Glycosylation in Complex  
Mixtures
- 18.45 – 19.00     **OL 36     Van Kasteren S.**  
New Methods for Studying the Role of Immune Lectins in  
Antigen Cross-Presentation
- 19.00 – 19.15     **OL 37     Guerin M.E.**  
A Model of Action for Peripheral Membrane-Associated Gt-B  
Glycosyltransferases
- 19.15 – 19.30     **OL 38     Cipolla L.**  
Sugar-Decorated Hydroxyapatite: an Inorganic Material  
Bioactivated with Monosaccharides

MONDAY, JULY 4<sup>TH</sup>

17.30 – 19.30 **Room Nettuno 4**  
**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Křen V.*

17.30 – 18.00 **IL 08 Rauter A.P.**  
Exploring Glycochemistry for Molecular Diversity and Bioactivity

*Chair: Reissig H.*

18.00 – 18.15 **OL 21 Lowary T. L.**  
Characterization of Gltf2, a Bifunctional  
Galactofuranosyltransferase Involved in the Biosynthesis of the  
Mycobacterial Cell Wall

18.15 – 18.30 **OL 22 Wittmann V.**  
Metabolic Oligosaccharide Engineering with a Diels-Alder  
Reaction with Inverse Electron Demand

18.30 – 18.45 **OL 23 Schmidt R. R.**  
New Aspects of Glycoside Bond Formation

18.45 - 19.00 **OL 24 Yamashita M.**  
Synthesis and Evaluation of Novel Phospha Sugar Anti-Cancer Agents

19.00 – 19.15 **OL 25 Turks M.**  
Synthesis of Disaccharides with Extended Bis-Azole Linkers

19.15 – 19.30 **OL 26 López J. C.**  
Formation and Reactivity of Novel Nicholas-Ferrier Pyranosidic Cations

MONDAY, JULY 4<sup>TH</sup>

17.30 – 19.45 **Room Nettuno 5+6**  
**GLYCOBIOLOGY AND GLYCOMEDICINE**  
**(NEUROGLYCOBIOLOGY)**

*Chair: Dityatev A.*

17.30 – 18.00 **IL 07 Gerardy-Schan R.**  
The Role of (Poly)Sialo Glycotopes in Brain Development and  
Function

*Chair: Gerardy Schan R.*

- 18.00 – 18.30    **OL 39**    **Dityatev A.**  
Synaptic Functions of Glycans
- 18.30 – 19.00    **OL 40**    **Tiemeyer M.**  
Developmental Mechanisms Regulating Neural-Specific Glycan Expression
- 19.00 – 19.15    **OL41**    **Rollenhagen M.**  
A Novel Site of Action for Polysialic Acid in the Brain
- 19.15 – 19.30    **OL 42**    **Berti F.**  
Development of a Novel Quadrivalent Meningococcal Crm197 Conjugate Vaccine Against Serogroups A, C, W135, Y
- 19.30 – 19.45    **OL 43**    **Hu H.**  
Mechanisms of Basement Membrane Disruptions in Congenital Muscular Dystrophies

**TUESDAY, JULY 5<sup>TH</sup>**

11.10 – 12.55    *Auditorium Sirene*  
**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Sollogoub M.*

- 11.10 – 11.40    **IL 09**    **Reissig H. U.**  
Synthesis of Novel Carbohydrate Mimetics
- Chair: Lay L.*
- 11.40 – 11.55    **OL 44**    **Ando H.**  
Development of Novel Fluorescent Ganglioside Analogs as Raft Markers
- 11.55 – 12.10    **OL 45**    **Payne R. J.**  
New Strategies for the Synthesis of Therapeutic Glycopeptides
- 12.10 – 12.25    **OL 46**    **Hogendorf W. F. J.**  
Automated Solid-Phase Synthesis of Glycerol Teichoic Acids (Gtas)
- 12.25 – 12.40    **OL 47**    **Kononov L. O.**  
Concentration Dependence of Glycosylation Outcome: a Clue for Reproducibility

12.40 – 12.55      **OL 48**      **Codée J. D. C.**  
Glycuronic Acids: Reactivity and Selectivity

**TUESDAY, JULY 5<sup>TH</sup>**

11.10 – 12.55      **Room Nettuno 1**  
**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Barreto-Bergter E.*

11.10 – 11.40      **IL 10**      **Peri F.**  
Synthetic Glycolipids Targeting the LPS-TLR4 Signalling: a New  
Generation of Immunotherapeutics

*Chair: Martin-Santamaria S.*

11.40 – 11.55      **OL 59**      **Rapp E.**  
High-Throughput Glycosylation Pattern Analysis of Glycoproteins  
Utilizing a Multiplexing Capillary-Dna-Sequencer

11.55 – 12.10      **OL 60**      **Leaver D.**  
Synthesis and Biological Evaluation of Bivalent 1,2,3-Triazole  
Linked Galactopyranoside Inhibitors of Cholera Toxin

12.10 – 12.25      **OL 61**      **Sattelle B.**  
Pucker-Function Relationships: New Insights from Equilibrium  
Simulations

12.25 - 12.40      **OL 62**      **Kandasamy J.**  
Repairing Faulty Genes by Small Molecules: Development of New  
Derivatives of Aminoglycosides for Treatment of Human Genetic  
Diseases

12.40 – 12.55      **OL 63**      **Ulc R.**  
Towards the Development of Glycoconjugate Vaccines: Synthesis  
of Capsular Polysaccharide Structures of *Cryptococcus Neoformans*

TUESDAY, JULY 5<sup>TH</sup>

- 11.10 – 12.55     **Room Nettuno 4**  
**GLYCOBIOLOGY AND GLYCOMEDICINE**
- Chair: Widmalm G.*
- 11.10 – 11.40     **IL 11     Woods R. J.**  
Computational Carbohydrate Screening Identifies Novel Ligand  
Binding Specificities for a Diagnostic Protein
- Chair: Ito Y.*
- 11.40 – 11.55     **OL 49     Bedini E.**  
Synthetic Strategies to Produce Chondroitin Sulfate  
Polysaccharides from *Escherichia Coli* Derived Chondroitin
- 11.55 – 12.10     **OL 50     Whitfield D.**  
Preparation of the Enes of Bacterial Nonulosonates
- 12.10 – 12.25     **OL 51     Miller G. J.**  
Synthesis and Evaluation of Heparin Sulfate Oligosaccharides
- 12.25 – 12.40     **OL 52     Fridman M.**  
Targeting Anthracycline-Resistant Tumor Cells with Aloe-Emodin  
Glycosides
- 12.40 – 12.55     **OL 53     Hollaus R.**  
Towards the Synthesis of 4-Amino-4-Deoxy-L-Aminoarabinose  
Modified Lipid A

TUESDAY, JULY 5<sup>TH</sup>

- 11.10 – 12.55     **Room Nettuno 5+6**  
**GLYCOBIOLOGY AND GLYCOMEDICINE**  
**(PARASITE GLYCOBIOLOGY/EUCARIOTIC GLYCOBIOLOGY)**
- Chair: Geyer R.*
- 11.10 – 11.40     **IL 12     Turco S. J.**  
D-Arabinosylation of the Surface Lipophosphoglycan of  
Leishmania Major

*Chair: Turco S.*

- 11.40 – 11.55     **OL 54**     **Wilson I. B. H.**  
Xylose and Galactose Metabolism in the Parasite *Trichomonas Vaginalis*
- 11.55 – 12.10     **OL 55**     **Liu Y.**  
Carbohydrate Recognition by Apicomplexan Parasites – New Insights to Tropism from Carbohydrate Microarrays
- 12.10 – 12.25     **OL 56**     **Damerow S.**  
Evaluating the Role of UDP-Glucose/ UDP-Galactose Metabolism in the Protozoan Parasite *Leishmania Major*
- 12.25 – 12.40     **OL 57**     **Wakamiya N.**  
Collectin Kidney 1 (Cl-K1) in Blood Is Detected by a Novel Elisa System
- 12.40 – 12.55     **OL 58**     **Tamaru Y.**  
Comparison of the Characterization and Function of Protein O-Mannosyltransferases Between Zebrafish and Human

**TUESDAY, JULY 5<sup>TH</sup>**

**17.30 – 19.15     Auditorium Sirene  
CHEMICAL AND ENZYMATIC SYNTHESIS  
(GLYCO-ENZYMES I)**

*Chair: Bernardi A.*

- 17.30 – 18.00     **IL 13**     **Overkleeft H.**  
Activity-Based Glycosidase Profiling

*Chair: Planas A.*

- 18.00 – 18.15     **OL 64**     **Helbert W.**  
Crazy Polysaccharides: Screening of Active Enzymes on a Collection of Polysaccharides Having Known and Unknown Structure
- 18.15 – 18.30     **OL 65**     **Borsenberger V.**  
New Chromogenic Substrates for the Screening of Active Enzymes in the Controlled Biochemical Conversion of Arabinoxylans

- 18.30 – 18.45     **OL 66**     **Fukamizo T.**  
Family Gh19 Chitinase from Moss: New Insights from NMR Spectroscopy, ITC Experiments, and Engineering into a Glycosynthase
- 18.45 – 19.00     **OL 67**     **Konno N.**  
An Endo- $\beta$ -1, 6-Glucanase Involved in Fungal Autolysis
- 19.00 – 19.15     **OL 68**     **Warren F. J.**  
Interactions of  $\alpha$ -Amylase with the Surface of Starch Granules: the Role of Supramolecular Starch Structure

**TUESDAY, JULY 5<sup>TH</sup>**

**17.30 – 19.15**     **Room Nettuno 1**  
**GLYCO-BIOTECHNOLOGY**

*Chair: Rauter A. P.*

- 17.30 – 18.00     **IL 15**     **Christensen B. E.**  
Periodate Oxidised Polysaccharides: Basis for Novel Biomaterials?

**NEW TOOLS AND GLYCO-BIOTECHNOLOGY**

*Chair: Hricovíni M.*

- 18.00 – 18.15     **OL 79**     **Rojas-Macias M. A.**  
New Features and Improvements in Carbohydrate 3D Structure Validation
- 18.15 – 18.30     **OL 80**     **Fieschi F.**  
DC-Sign Binding Mode of Di- and Tri-Mannoside Mimics Revealed by NMR and X-Ray Crystallography
- 18.30 – 18.45     **OL 81**     **Marcelo F.**  
Molecular Recognition and Conformation Analysis of O- and N-Linked Glycopeptides
- 18.45 – 19.00     **OL 82**     **Rudd T. R.**  
Visualization of Contaminants in Heparin Samples by Two-Dimensional Correlation Spectroscopy Filtering of <sup>1</sup>H NMR Spectra
- 19.00 – 19.15     **OL 83**     **Ateş O.**  
Systems Biology Approach for Levan Production by Halomonas Sp.

TUESDAY, JULY 5<sup>TH</sup>

**17.30 – 19.15**      **Room Nettuno 4**  
**GLYCOBIOLOGY AND GLYCOMEDICINE**

*Chair: Wimmerova M.*

17.30 – 18.00      **IL 14**      **Martin-Santamaria S.**  
Protein-Carbohydrate and Carbohydrate-Carbohydrate  
Interactions. Some Examples from the Molecular Modelling  
Perspective

*Chair: Ferrieres V.*

18.00 – 18.15      **OL 69**      **Evans G. B.**  
Targeting 5'-Methylthioadenosine Pathways in Cancer and  
Quorum Sensing with Sulfur-Free Transition State Analogues

18.15 – 18.30      **OL 70**      **Kumari M.**  
Noncovalent Interactions Between Sugars and Aromatic Amino  
Acid Analogs

18.30 – 18.45      **OL 71**      **Tober M.**  
Carbohydrate-Based Polyols of Potential Industrial Use

18.45 – 19.00      **OL 72**      **Riviere M.**  
Protein O-Mannosylation Disruption Does Not Alter  
Mycobacterial Growth in Vitro

19.00 – 19.15      **OL 73**      **Van Hattum H.**  
Development of a New and Sensitive Detection Technology for  
Galactin Cancer Proteins

TUESDAY, JULY 5<sup>TH</sup>

**17.30 – 19.15**      **Room Nettuno 5+6**  
**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Fairbanks A.*

17.30 – 18.00      **IL 16**      **Yu B.**  
Synthesis of Cyclic Triterpene Saponins with Potent Antitumor  
Activities

**GLYCOBIOLOGY AND GLYCOMEDICINE**

*Chair: Garozzo D.*

- 18.00 – 18.15    **OL 74**    **Liang C.-H.**  
A Rapid Screening Method for Identification of Oseltamivir-Resistant Influenza Virus by Combining Carbohydrate Microarray Analysis and Nanoparticle-Based Detection
- 18.15 – 18.30    **OL 75**    **Sanchez-Ruiz A.**  
MALDI-TOF Analysis of Enzymatic Activity on an Array of N-Glycans
- 18.30 – 18.45    **OL 76**    **Pilard S.**  
Mass Spectrometry Characterization of New Glycoclusters Designed for Lectin Recognition
- 18.45 – 19.00    **OL 77**    **Kaczyński Z.**  
Structural and Immunological Characterisation of Polysaccharidic Components of *Enterococcus Faecalis* Cell Wall
- 19.00 – 19.15    **OL 78**    **Gupta A.**  
A Herbal Oil Composition in Controlling Blood Sugar Without Any Risk of Hypoglycemia

**WEDNESDAY, JULY 6<sup>TH</sup>**

**11.10 – 12.55**

*Auditorium Sirene*

**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Werz D.B.*

- 11.10 – 11.40    **IL 17**    **Jensen K. J.**  
New Chemical Tools to Study the Glycobiology of Plant-Microbe Interactions

*Chair: Yu B.*

- 11.40 – 11.55    **OL 99**    **Witczak Z. J.**  
Thiol-Click Chemistry Approach (Tema) to Glycomimetics. Synthesis of New Inhibitors of Galectin-3
- 11.55 – 12.10    **OL 100**    **Kozmon S.**  
Theoretical Investigation of the Carbohydrate CH/π Interactions Favourable Regions in the Carbohydrate Surroundings

- 12.10 – 12.25     **OL 101**     **Hartmann M.**  
Atomic Force Microscopic View into the Binding of Bacteria to  
the Human Glycocalyx
- 12.25 – 12.40     **OL 05**     **Werz D. B.**  
Flexible C-Glycoside Synthesis
- 12.40 – 12.55     **OL 103**     **Thygesen, M. B**  
An Examination of Immobilization of Reducing Sugars Used in  
SPR Detectors

**WEDNESDAY, JULY 6<sup>TH</sup>**

11.10 – 12.55     **Room Nettuno 1**  
**GLYCOBIOLOGY AND GLYCOMEDICINE**

*Chair: Chapleur Y.*

- 11.10 – 11.40     **IL 20**     **Kitaoka M.**  
Molecular Basis on the Predominant Intestinal Growth of  
Bifidobacteria in Breast-Fed Infant

*Chair: Bovin N.*

- 11.40 – 11.55     **OL 94**     **Ferrières V.**  
 $\beta$ -(1,3)-(Thio) Glucans and their Interactions with Recombinant  
Human Receptors Using High-Resolution NMR Studies
- 11.55 – 12.10     **OL 95**     **Wildberger P.**  
Aromatic Interactions at the Catalytic Subsite of Sucrose  
Phosphorylase: Analysis of Their Role in Enzymatic Glucosyl  
Transfer
- 12.10 – 12.25     **OL 96**     **Waldmann M.**  
Multivalent Glycoderivatives as Potential Inhibitors for Influenza  
Lectin Haemagglutinin H5
- 12.25 – 12.40     **OL 97**     **Mauri E.**  
Hybrid Gangliosides for the Detection of Anti-Ganglioside  
Complex Antibodies
- 12.40 – 12.55     **OL 98**     **Rudrawar S.**  
Sialic Acid Derivatives Targetting the Open '150-Loop' Form of  
Group-1 Influenza A Virus Sialidases

WEDNESDAY, JULY 6<sup>TH</sup>

- 11.10 – 12.55**      *Room Nettuno 4*  
**GLYCOBIOLOGY AND GLYCOMEDICINE**  
**(BACTERIAL GLYCANS II)**
- Chair: Valvano M.*
- 11.10 – 11.40**      **IL 18**      **Whitfield C.**  
The Role of ABC Transporters in the Biosynthesis and Export of  
Bacterial Glycans
- Chair: Whitfield C.*
- 11.40 – 11.55**      **OL 89**      **Polissi A.**  
Understanding the Role of Lpta and Lptc Two Proteins of the  
Lipopolysaccharide Transport System in Escherichia Coli
- 11.55 – 12.10**      **OL 90**      **Feldman M. F.**  
Cell Surface Glycans Are Involved in Protein Cargo Selection into  
Bacterial Vesicles
- 12.10 – 12.25**      **OL 91**      **Valvano M.**  
Characterization of Bacterial UDP-Glucose: Undecaprenyl-  
Phosphate Glucose-1-Phosphate Transferases Involved in  
Exopolysaccharide Biosynthesis
- 12.25 – 12.40**      **OL 92**      **Fujimoto Y.**  
Synthesis of Glycoconjugates from Bacteria for Regulation of  
Immune System
- 12.40 – 12.55**      **OL 93**      **Kondakova A. N.**  
Structural Studies on the Lipopolysaccharides of Two Species of  
Psychrobacter

WEDNESDAY, JULY 6<sup>TH</sup>

- 11.10 – 12.55**      *Room Nettuno 5+6*  
**GLYCOBIOLOGY AND GLYCOMEDICINE**
- Chair: Tiemeyer M.*
- 11.10 – 11.40**      **IL 19**      **Garozzo D.**  
The MALDI TOF/TOF Mass Spectrometer as a Chemical Lab for  
the Structural Characterization of Lipooligosaccharides

**GLICOBIOLOGY AND GLYCOMEDICINE  
(GLYCO-ENZYMES II)**

*Chair: Davies G.*

- 11.40 – 11.55    **OL 84**    **Cobucci-Ponzano B.**  
Novel Engineered Glycosidases for the Synthesis of  $\alpha$ -Glucans
- 11.55 – 12.10    **OL 85**    **Nidetzky B.**  
Structure and Mechanism of Oxidoreductases Providing  
Sugar Precursors for Glycosaminoglycan Biosynthesis: UDP-Glucose  
Dehydrogenase and UDP-Xylose Synthase
- 12.10 – 12.25    **OL 150**    **Dobruchowska J. M.**  
Disproportionation of  $\alpha$ -Glucans by Glycoside Hydrolase  
Family 70 Enzymes
- 12.25 – 12.40    **OL 87**    **van den Broek L. A.M.**  
Enzymes as a Tool for the Synthesis of Carbohydrate Derivatives
- 12.40 – 12.55    **OL 88**    **Desmet T.**  
Engineering the Thermostability of Sucrose Phosphorylase

**THURSDAY, JULY 7<sup>TH</sup>**

**11.10 – 12.55**    *Auditorium Sirene*  
**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Carvalho I.*

- 11.10 – 11.40    **IL 21**    **Bonnaffé D.**  
Glycosaminoglycans : Synthetic Tricks, Mimetics and Chimeras to  
Unravel New Therapeutic Targets

*Chair: Peri F.*

- 11.40 – 11.55    **OL 104**    **Pedatella S.**  
D-Glucosamine in a Chimeric Prolinamide Organocatalyst for  
Direct Asymmetric Aldol Addition
- 11.55 – 12.10    **OL 105**    **Koch S.**  
C-Glycosyl Amino Acids Via Hydroboration-Cross Coupling of  
Exo-Glycals

- 12.10 – 12.25     **OL 106   Ranade S. C.**  
Glycosyl Alkoxythioimidates as Complementary Building Blocks for Glycosylation and Expeditious Oligosaccharide Synthesis
- 12.25 – 12.40     **OL 107   Moreau V.**  
Synthesis of High-Mannose Type Oligosaccharide Mimetics Based on Huisgen's Copper-Catalysed [3+2] Cycloaddition
- 12.40 – 12.55     **OL 108   Nokami T.**  
Glycosyl Sulfonium Ions as Storable Glycosylation Intermediates

**THURSDAY, JULY 7<sup>TH</sup>**

11.10 – 12.55     **Room Nettuno 1**  
**GLYCOBIOLOGY AND GLYCOMEDICINE**

*Chair: Codée J.*

- 11.10 – 11.40     **IL 23   Uhrin D.**  
Interactions of Complement Factor H with Glycosaminoglycans

*Chair: Cescutti P.*

- 11.40 – 11.55     **OL 119   Albertin L.**  
Synthesis of  $\beta$ -D-Glucopyranosylamine Uronic Acid in Aqueous Solution: Kinetic Study and Synthetic Potential

- 11.55 – 12.10     **OL 120   Galan M. C.**  
Ionic-Liquid-Based Catch and Release Oligosaccharide Synthesis (Icros). Chemical and Enzymatic Applications

- 12.10 – 12.25     **OL 121   Martos-Maldonado M. C.**  
Mannose-Glycodendrimers as Electrochemical Sensors

- 12.25 – 12.40     **OL 122   Satoh H.**  
Theoretical Investigations of Solvent Effects on Glycosylation Reactions: the Conformer and Counterion Distribution Hypothesis

- 12.40 – 12.55     **OL 123   Prematilake H.D.**  
Allylphenyl Glycosides as Versatile Glycosyl Donors for Chemical Glycosylation and Orthogonal Oligosaccharide Synthesis



**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Jensen K. J.*

- 11.40 – 11.55    **OL 114    Cardona F.**  
Sugar-Derived Nitrones and Aldehydes: Key Building Blocks for the Synthesis of Glycosyl Hydrolases Inhibitors
- 11.55 – 12.10    **OL 115    Goyard D.**  
Access to Glucose-Based 1,4,5-Trisubstituted Triazoles by 1,3-Dipolar Cycloaddition and Suzuki Coupling, and Evaluation as Glycogen Phosphorylase Inhibitors
- 12.10 – 12.25    **OL 116    Varón-Silva D.**  
General Strategy for the Synthesis of GPI-Anchors and GPI-Anchored Proteins
- 12.25 – 12.40    **OL 117    Grandjean C.**  
Iodosulfonamidation of Peracetylated Glycals; Application to the Preparation of Galectin's Ligands
- 12.40 – 12.55    **OL 118    Win Mason A. L.**  
Design and Synthesis of New Amino Imino Hexitols Via Novel Asymmetric Strecker + Carbamate Annulation Methodology

**THURSDAY, JULY 7<sup>TH</sup>**

- 14.30 – 18.05    *Auditorium Sirene*  
**GLYCOBIOLOGY AND GLYCOMEDICINE**

*Chair: Mangoni A.*

- 14.30 – 15.00    **IL 25      Serianni A. S.**  
1,2-Dicarbonyl Sugars in Biology: Phosphate-Catalyzed Skeletal Rearrangement Involving C1-C2 Transposition

**GLYCOBIOLOGY AND GLYCOMEDICINE  
(GLYCOCONJUGATE VACCINES)**

*Chair: Costantino P.*

- 15.00 – 15.15    **OL 140    Di Pietro S.**  
Synthetic High Glycosylated Muc1 Glycopeptide Antigens Bounded to Synthetic Adjuvants as Potential Cancer Vaccines

- 15.15 – 15.30     **OL 141**   **Lay L.**  
Synthesis, Conjugation, and Immunological Evaluation of Phosphonoester Analogues of Serogroup A Neisseria Meningitidis Capsular Polysaccharide
- 15.30 – 15.45     **OL 142**   **Mulard L. A.**  
Input of Non Stoechiometric O-Acetylation on Antigenicity: Shigella Flexneri 2a LPS as an Example
- 15.45 – 16.00     **OL 143**   **Oscarson S.**  
Towards Lipopolysaccharide Conjugate Vaccines Based on Synthetic Oligosaccharides
- 16.00 – 16.15     **OL 144**   **Chiodo F.**  
A Fully Synthetic Carbohydrate Vaccine Candidate Based on Gold Nanoparticles

## GLYCOBIOLOGY AND GLYCOMEDICINE

*Chair: Arad S.*

- 16.50 – 17.05     **OL 07**     **Poinsot V.**  
Lipochoitooligosaccharidic Symbiotic Signals of Mycorrhization
- 17.05 – 17.20     **OL 145**   **Kawasaki T.**  
Specific Interaction of the Serum Mannan-Binding Protein with Tumor-Associated Oligosaccharides and Tumor Tissues
- 17.20 – 17.35     **OL 146**   **Lu S. R.**  
Pre-Activated DMF-Modulating Glycosylation Strategy
- 17.35 – 17.50     **OL 148**   **Srivastava A.**  
Synthesis of N-( $\beta$ -D-Glycosyl) Guanidinoacetamides and Guanidine Linked N- Glycosyl Amino Acid
- 17.50 – 18.05     **OL 149**   **Christina A. E.**  
Galacturonic Acid Lactones in the Synthesis of all Trisaccharide Repeating Units of the Zwitterionic Polysaccharide Sp1

THURSDAY, JULY 7<sup>TH</sup>

**14.30 – 18.05**     **Room Nettuno 1**  
**GLYCO-BIOTECHNOLOGY**

*Chair: Imberty A.*

14.30 – 15.00     **IL 26**     **Arad S.**  
Red Microalgal Polysaccharides from the Test Tube to the Final Product

**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Wilson I.*

15.00 – 15.15     **OL 130**     **Boysen M. M. K.**  
Carbohydrates in Catalysis

15.15 – 15.30     **OL 131**     **Biskup M. B.**  
Synthesis of Oligoethyleneglycol-Linked Carbohydrate Epitopes as Artificial Ligands for the Carbohydrate-Binding Protein Malectin

15.30 – 15.45     **OL 132**     **Xavier N. M.**  
Synthesis of Bioactive Sugars with Conjugated Carbonyl Functions and Related Triazoles from Bicyclic Lactones

15.45 – 16.00     **OL 133**     **Hernaiz M. J.**  
Influence of Ionic Liquids on Enzymatic Synthesis of  $\beta$ -Galactosidase from *Thermus Thermophilus*: a Surface Plasmon Resonance and Molecular Modeling Analysis

16.00 – 16.15     **OL 134**     **Pogosyan A.**  
Efficient Synthesis of Bulding Blocks and Blockwise Buid-Up of Rhamnogalacturonan Fragments by Modular Design

**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Angulo J.*

16.50 – 17.05     **OL 86**     **Mlynarski J.**  
From Enzymes to Artificial Catalysts: Organocatalytic Synthesis of Carbohydrates

17.05 – 17.20     **OL 151**     **F. Schweizer**  
Aminoglycoside Based Mimicry of Antimicrobial Peptides

- 17.20 – 17.35     **OL 152    Potier P.**  
Industrial Development of Complex, Fully Synthetic  
Oligosaccharides
- 17.35 – 17.50     **OL 153    Malanga M.**  
Fluorescent Cyclodextrin Derivatives: Aid in the Development of  
Novel Anticancer Strategies and in Visualizing Biological Barriers  
Crossing
- 17.50 – 18.05     **OL 154    Matsushita K.**  
Protected Sulfate Groups – An Application to the Synthesis of  
Sulfated Saccharides

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**14.30 – 16.15     Room Nettuno 4**

**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Chmielewsky M.*

- 14.30 – 15.00     **IL 27     Blériot Y.**  
Seven-Membered Iminosugars: from Glycosidase Inhibition to  
Skeletal Rearrangement

**NEW TOOLS AND GLYCOL-BIOTECHNOLOGY**

*Chair: Christensen B. E.*

- 15.00 – 15.15     **OL 135    Johannessen C.**  
Structural Analysis of Carbohydrates and Glycoproteins Using  
Raman Optical Activity
- 15.15 – 15.30     **OL 136    Seferoglu A. B.**  
Enhanced Heterotetrameric Formation of Potato ADP-Glucose  
Pyrophosphorylase Through Reverse Genetics
- 15.30 – 15.45     **OL 137    Qureshi F.**  
Improved Process for Enhanced Production of Sugars from Sugar  
Beet
- 15.45 – 16.00     **OL 138    Elchinger P. H.**  
Starch-Cellulose Reticulation – Towards a New Material

- 16.00 – 16.15     **OL 139**     **Wang G.-N.**  
Synthesis of Multivalent Oligosaccharides as Antimicrobial Agents  
for Treat Gut Infection

**THURSDAY, JULY 7<sup>TH</sup>**

**14.30 – 16.30**     *Room Nettuno 5+6*

**CHEMICAL AND ENZYMATIC SYNTHESIS**

*Chair: Mulard L.*

- 14.30 – 15.00     **IL 28**     **Kosma P.**  
Higher-Carbon Sugars of Bacterial Lipopolysaccharides: Synthesis  
and Binding Interactions with Antibodies and Lectins

*Chair: Kosma P.*

- 15.00 – 15.15     **OL 124**     **Jones R. A.**  
Preparation of Mucin Type O-Glycans by Ionic Catch and Release  
Oligosaccharide Synthesis (Icros)

- 15.15 – 15.30     **OL 125**     **Ul Qader S. A.**  
Immobilization of Cells of *Leuconostoc Mesenteroides* Kibge  
Halon Calcium Alginate Beads for the Continuous Production of  
Low Molecular Weight Dextran

- 15.30 – 15.45     **OL 126**     **Manabe S.**  
Anomerization Reaction Of Pyranosides with 2,3-Trans  
Carbamate Group

- 15.45 – 16.00     **OL 127**     **Vidal S.**  
Synthesis of Calixarene-Based Glycoclusters: Influence of the  
Spacer Arm on the Affinity for Lectins

- 16.00 – 16.15     **OL 128**     **Fügedi P.**  
The Influence of Solvents on the Stereoselectivity of Glycosylations

- 16.15 – 16.30     **OL 129**     **D'Alonzo D.**  
Access to Unnatural Oligosaccharides Under Mild Glycosidation  
Conditions

**POSTER Session 1**

- PO-001 Abdel-Jalil R.**  
A Novel Stereoselective Synthesis of Chiral Cyclopentane
- PO-002 Abraha F.**  
Synthesis of Mucin O-Glycan Core Structures for the Investigation of Binding to Gut Bacteria
- PO-003 Abronina P.**  
Unusual Stereoselectivity of Glycosylation of Novel 4-(2-Chloroethoxy)Phenyl Arabinofuranoside
- PO-004 Ait-Mohand K.**  
Stereocontrolled Synthesis of Potential Acceptors of Glycosyltransferases Implicated in Proteoglycan's Biosynthesis
- PO-005 Albrecht F.**  
Synthesis of Silyl Protected *Gluc*-Pybox Ligands
- PO-006 Amiri M.**  
Maltose Derivatives as Potential Precursors for Maltooligosaccharides and Cyclodextrins
- PO-007 Andersen M.C.F.**  
Synthesis of Pectic Oligosaccharides
- PO-008 Ando T.**  
Synthesis and Enzymatic Study of Novel Selenoglycoside
- PO-009 Aragão-Leoneti V.**  
Synthesis of Anhydrosugar Derivatives from 6-Deoxyhex-5-Enopyranoside
- PO-010 Ardá-Freire A.**  
A Lactose Derivative as Double Ligand for Galectin3 and Mmp12. Study of the Interaction by NMR and Modeling
- PO-011 Valencia G.**  
Further SAR Studies on a Very Potent Opioid Neoglycopeptide Related to Enkephalins
- PO-012 Audfray A.**  
Baml - A Newly Identified Lectin from *Burkholderia Ambifaria* with Specificity Towards Human Blood Group Epitopes
- PO-013 Awan S. I.**  
Studies Directed Towards the Synthesis of a Heptasaccharide Repeating Unit of the Lipopolysaccharide of *Providencia Rustigianii*

- PO-014 Azuma J.**  
Properties of Acidic Xylan Present In Basil Seed Mucilages
- PO-015 Azzouz M.**  
Formal Synthesis of Nectrisine
- PO-016 Bailey U.M.**  
In Vitro and in Vivo Mechanisms of the Yeast Oligosaccharyltransferase Accessory Proteins Ost3 And Ost6 and the Human Homologs N33 and Iap
- PO-017 Barreto-Bergter E.**  
Toll-Like Receptor 4 (TLR4) Recognizes Rhamnomannans of *Pseudallescheria Boydii* Cell Wall
- PO-018 Barroca-Aubry N.**  
Acid-Catalysed Introduction of *p*-Methoxybenzyl Ether: a Novel Alternative
- PO-019 Barroca-Aubry N.**  
«One Pot» Regioselective Protection: an Efficient Preparation of Key Synthons Involved in Heparan Sulfate Fragments Synthesis
- PO-020 Baum D.**  
Synthesis of Lipid A – Derived Neoglycoconjugates Based on Galactosamine – Modified Lipid A of *Francisella Tularensis*
- PO-021 Beczala A.**  
Enterococcal Cell Wall Polysaccharide – A Putative Mechanism to Mislead the Immune System
- PO-022 Bedini E.**  
Synthesis of *N*-Deacylated Peptidoglycan Fragments
- PO-023 Bell N. G. A.**  
The Conformation of Cellobiose Investigated by Residual Dipolar Coupling Constants
- PO-024 Bertolotti B.**  
Novel C-Glycoside Ligands for DC-Sign
- PO-025 Beurret M.**  
Accelerating the Introduction of H. Influenzae Type B Conjugate Vaccines in Developing Countries
- PO-026 Bezerra Morais P. A.**  
Synthesis of Nucleoside-Linked Aminocyclitols as Potential Antitumor Agents
- PO-027 Bini D.**  
Iminosugar-Based Trehalose Mimetics as Trehalase Inhibitors

- PO-028 Bini D.**  
Synthesis of a Sialic Acid Paramagnetic Conjugate for Magnetic Resonance Investigations
- PO-029 Bisio A.**  
Structural Analysis of Heparan Sulfate from Rabbit Cartilages by NMR Spectroscopy and Mass Spectrometry
- PO-030 Blanzat M.**  
Carbohydrate-Functionalized Catanionic Vesicles: Study of Their Internalisation Mechanisms into Cells
- PO-031 Blaukopf M.**  
Synthesis of Ara4N Containing Di- and Trisaccharides of the Inner Core LPS Of *Burkholderia Cepacia* and *Proteus Mirabilis* R45
- PO-032 Borbás A.**  
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- PO-033 Bouly N.**  
2D Separation and Profiling of Complex Oligosaccharide Mixtures
- PO-034 Bourke J.**  
Synthesis and Biological Investigation of Phenolic Glycolipids Associated with Tuberculosis Hypervirulence
- PO-035 Brand C.**  
Manipulation of Sugars: Stereochemical Fixation of the 6-Hydroxyl Group by Spiroannelated Cyclopropanes
- PO-036 Brasile G.**  
Synthesis of Photoactivable Probes for the Study of Glycosphingolipid-Protein Interactions
- PO-037 Brogioni G.**  
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- PO-038 Buda S.**  
Stereochemistry Control in Glycosylation Via Modified O-2-Benzyl Group
- PO-039 Bystrický P.**  
NMR Study of *Ralstonia Solanacearum* Lectin Interactions
- PO-040 Cabero K.**  
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- PO-043 Cacciarini M.**  
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- PO-044 Cacciarini M.**  
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- PO-045 Calabrese G.**  
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- PO-046 Calabrese V.**  
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- PO-047 Carillo S.**  
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- PO-048 Carillo S.**  
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- PO-049 Carmona A.T.**  
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- PO-050 Carp  n   M.A.**  
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- PO-051 Carvalho I.**  
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- PO-052 Cassel S.**  
Carbohydrate-Based Surfactants: Rationalisation of Their Self-Assembly Behaviour in Non-Conventional Media
- PO-053 Castilla J.**  
Synthesis, Derivatization and Biological Evaluation of 1,3-Oxathiolan-2-Imine-Carbohydrate Derivatives
- PO- 054 Catelani G.**  
Large Disperse Dyes Transformed Into "Naturalized Dyes" Through Glycoconjugation with Lactose

- PO-055 Chabrol E.**  
A New Interaction Mode of Langerin for Glycosaminoglycans
- PO-056 Chambert S.**  
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- PO-057 Chandrasekaran V.**  
Photoswitchable Glyco-Sams
- PO-058 Chapleur Y.**  
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- PO-059 Chapleur Y.**  
C-Glycosyl Compounds by Functionalisation-Reduction of *Exo*-Glycals
- PO-060 Choma A.**  
Structural Characterization of Lipid A from *Azorhizobium* Caulinodans
- PO-061 Chopra P.**  
Synthesis of C-9 Functionalised *N*-Acetylneuraminic Acid Derivatives as Biological Probes
- PO-062 Christensen H.**  
Synthesis of Dimeric Glycomimetic Ligands to Nk Cell Activation Receptors
- PO-063 Cieplak M.**  
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- PO-064 Claisse N.**  
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- PO-065 Codera V.**  
Synthesis of 6'-Azido Laminaribiosyl Building Blocks for Glycosynthase-Catalyzed Biopolymerization
- PO-066 Colinas P.A.**  
Application of Nitrile Oxide Cycloaddition "Click-Chemistry" in Glycoconjugate Synthesis. Scope and Limitations
- PO-067 Compostella F.**  
Immunology of Carbohydrate Antigens Related to *Streptococcus Pneumoniae* Infection: Synthesis of a Glycolipid Construct
- PO-068 Cordara G.**  
*Marasmius Oreades* Agglutinin (Moa) Is a Cytotoxic Lectin with Proteolytic Activity

- PO-069 Cordero F.M.**  
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- PO-070 Csavas M.**  
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- PO-071 Czabanska A.**  
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- PO-072 Daly R.**  
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- PO-073 Dangerfield E.M.**  
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- PO-074 Dauner M.**  
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- PO-075 De Andrade P.**  
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- PO-076 De Jong A.R.**  
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- PO-077 Desire J.**  
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- PO-079 Di Bussolo V.**  
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- PO-080 Di Lorenzo F.**  
Biosynthesis of the *Burkholderia Cenocepacia* K56-2 Lipopolysaccharide O-Antigen
- PO-081 Di Lorenzo F.**  
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- PO-082 Di Pietro S.**  
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- PO-083**    **Schoenhentz J.**  
Perfluoroalkylated Muc1-Glycopeptide Antigens for Cancer Immunotherapy
- PO-084**    **Doknić D.**  
Synthesis of Fucose Based Ligands for DC-Sign
- PO-085**    **Zdorovenko E.**  
Cell-Wall Polysaccharides of Biotechnologically Promising Bacteria from the Belarus Collection of Microorganisms
- PO-086**    **Zdorovenko E.**  
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- PO-088**    **Dubayle J.**  
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- PO-089**    **Duda K.**  
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- PO-090**    **Dussouy C.**  
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- PO-91**      **Ehret M.E.**  
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- PO-92**      **Elefante C.**  
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- PO-093**    **Elefante C.**  
Gram-Negative Peptidoglycan Modifications as a Strategy to Lower Innate Immunity During Chronic Lung Infection in Cystic Fibrosis
- PO-094**    **Engström O.**  
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- PO-095**    **Evidente A.**  
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- PO-097 Faugeras P.A.**  
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- PO-098 Fazekas E.**  
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- PO-099 Fernández-García C.**  
Detection of Carbohydrate-Carbohydrate Interactions Using a Peptide Scaffold: Study of the Lewis<sup>x</sup> System
- PO-100 Fernández-Bolaños G.C.**  
N-Alkoxyamine-Mediated Glycodiversification of Dopamine and Taurine
- PO-101 Fischer K.**  
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- PO-102 Fregolino E.**  
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- PO-103 Frihed T.G.**  
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- PO-104 Gabrielli L.**  
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- PO-106 Gao Q.**  
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- PO-107 García Fernández J.M.**  
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- PO-108 Garcia-Martin F.**  
Synthesis of a Chemical Library Based on Mucin-1 For Rapid Epitope Discovery
- PO-109 García-Moreno M.I.**  
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- PO-110 Gasch C.**  
New D-*Arabino*-Configured Carbohydrate-Based Heterocycles as Potential Glycosidase Inhibitors
- PO-111 Gauthier C.**  
Highly Convergent Synthesis of Three Mono and Di-*O*-Acetylated Decasaccharides as Mimics of the *Shigella Flexneri* Serotype 2a O-Antigen
- PO-112 Hildegard Geyer H.**  
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- PO-114 Ghisaidoobe A.B.T.**  
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- PO-115 Gil-Serrano A. M.**  
Structures of the O-Specific Polysaccharide Chain of the Lipopolysaccharide and Capsular Polysaccharide Isolated from *A. Punctata* Amg272
- PO-116 Giuliano R.**  
Synthesis and Characterization of Carbohydrate-Functionalized Graphite Nanofibers
- PO-117 Giuliano R.**  
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- PO-118 Golovchenko V.**  
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- PO-119 Gomez d'Ayala G.**  
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- PO-124 Grayson E.J.**  
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- PO-125 Guaragna A.**  
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- PO-127 Albert M. Wu**  
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- PO-128 Cescutti P.**  
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- PO-129 Guerrini M.**  
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- PO-130 Malik S.**  
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- PO-131 Guzzi C.**  
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- PO-132 Gyémánt G.**  
Subsite Structure of Dispersinb; A Biofilm Degrading Enzyme
- PO-133 Thomas S.J.**  
New Synthetic Tools for the Study of Protein-Glycosaminoglycan Complexes by NMR
- PO-134 Hamark C.**  
A Solution NMR Study of the Carbohydrate Binding Protein Cel7a and its Enantioselective Binding to Propranolol Analogues
- PO-135 Hartmann S.**  
Synthesis and Multivalent Presentation of Tumor-Associated Glycopeptide Muc1 on Gold Nanoparticles

- PO-136 Hayashi C.**  
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- PO-137 Hayman C.**  
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- PO-138 Helbert W.**  
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- PO-139 Herczeg M.**  
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- PO-141 Hesse J.**  
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- PO-142 Hevey R.**  
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- PO-143 Higgins B.**  
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- PO-145 Hirsch J.**  
FTIR and NMR Spectroscopic Study of Modified Pectins
- PO-146 Holkenbrink A.**  
Fluorescent and A-Hydroxylated Glycosphingolipids to Investigate Domain Formation
- PO-147 Honda Y.**  
The Gh9 Protein from *Photobacterium Profundum* Ss9 Is an Exo-B-D-Glucosaminidase (Ec 3.2.1.165)
- PO-148 Houser J.**  
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- PO-149 Hricoviniová Z.**  
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- PO-150 Huchting J.**  
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- PO- 152 Infantino A.S.**  
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- PO-153 Jakeman D.L.**  
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- PO-155 Jervis P.J.**  
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- PO-156 Jesus A.R.**  
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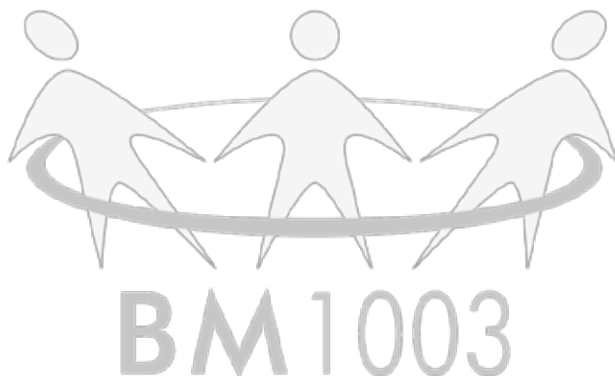
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