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## ***WELCOME***

The European Carbohydrate Organisation (ECO) and the Organizing Committee cordially welcome all participants and accompanying persons to Lisbon for the 11<sup>th</sup>. European Carbohydrate Symposium which is to be held at the Faculdade de Ciências da Universidade de Lisboa.

## ***COMMISSION OF HONOUR***

Presided by his Excellency the President of the Portuguese Republic

President of the Portuguese Parliament

Prime Minister

Minister of Agriculture, Rural Development and Fisheries

Minister of Culture

Minister of Education

Minister of the Environment and Territorial Planning

Minister of Health

Minister of Science and Technology

Secretary of State for Culture

Secretary of State for European Affairs

Secretary of State for Industry and Energy

Ambassadors of the acting countries:

Argentina, Australia, Austria, Belgium, Brazil, Canada, Croatia, Cuba, Czech Republik, Denmark, Egypt, Finland, France, Germany, Hungary, Iran, Ireland, Israel, Italy, Japan, Korea, Lithuania, New Zealand, Norway, Poland, Russia, Slovakia, South Africa, Spain, Sweden, Switzerland, Taiwan, The Netherlands, Republic of Uzbekistan, Ukraine, United Kingdom, United States of America

Director of the Bureau of the European Countries

Director of the European Commission Research DGXII

Rector of the Universidade de Lisboa

President of the Sociedade Portuguesa de Química

Head of the Faculdade de Ciências da Universidade de Lisboa

Head of the Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade de Lisboa

President of the Portuguese Research Liaison Office

Civil Governor of Lisbon

President of the Lisbon City Council

## ***GUESTS OF HONOUR***

Angyal, Stephen J. *Australia*  
Defaye, Jacques *France*  
Hough, Leslie *United Kingdom*  
Horton, Derek *USA*  
Lindberg, Bengt *Sweden*

Paulsen, Hans *Germany*  
Perlin, Arthur S. *Canada*  
Pedersen, Christian *Denmark*  
Whistler, Roy *USA*  
Yoshimura, Juji *Japan*

## ***EUROPEAN CARBOHYDRATE ORGANISATION (ECO)***

President	Savage, Angela <i>Ireland</i>
President-elect	Rauter, Amélia P. <i>Portugal</i>
Secretary	Hounsell, Elizabeth <i>United Kingdom</i>

## ***ECO NATIONAL REPRESENTATIVES***

Chmielewski, Marek *Poland*  
Ernst, Beat *Switzerland*  
Hirsch, Ján *Slovakia*  
Hounsell, Elizabeth *United Kingdom*  
Horvat, Stefica *Croatia*  
Kosma, Paul *Austria*  
Kren, Vladimir *Czech Republic*  
Kuszmán, János *Hungary*  
Lundt, Inge *Denmark*  
Martin-Lomas, Manuel *Spain*

Perez, Serge *France*  
Rauter, Amélia P. *Portugal*  
Samuelsson, Bertil *Sweden*  
Savage, Angela *Ireland*  
Shibaev, Vladimir N. *Russia*  
Paulsen, Berit Smestad *Norway*  
Thiem, Joachim *Germany*  
Vliegthart, Johannes *The Netherlands*  
Zehavi, Uri *Israel*

## ***PAST-PRESIDENTS***

Unger, Frank *Austria*  
Bognar, Rezső *Hungary*  
Defaye, Jacques *France*  
Lichtenthaler, Frieder *Germany*  
Cerný, Miloslav *Czech Republic*  
Buchanan, Grant *United Kingdom*  
Zamojski, Aleksander *Poland*  
Martin-Lomas, Manuel *Spain*  
Vliegthart, Johannes *The Netherlands*

## **SCIENTIFIC COMMITTEE**

Buchanan, Grant *United Kingdom*  
Defaye, Jacques *France*  
Descotes, Gérard *France*  
Dondoni, Alessandro *Italy*  
Ernst, Beat *Switzerland*  
Fleet, Georges *United Kingdom*  
Fuentes, José *Spain*  
Garegg, Per *Sweden*  
Herold, Bernardo *Portugal*  
Hirsch, Ján *Slovakia*  
Hounsell, Elizabeth *United Kingdom*  
Kennedy, John F. *United Kingdom*  
Kosma, Paul *Austria*  
Kren, Vladimir *Czech Republic*  
Lichtenthaler, Frieder *Germany*

Lipták, András *Hungary*  
Lundt, Inge *Denmark*  
Magiolly Novais, Júlio *Portugal*  
Martin-Lomas, Manuel *Spain*  
Mentech, Julio *France*  
Mota, Manuel *Portugal*  
Nicotra, Francesco *Italy*  
Palácios, Juan C. *Spain*  
Perez, Serge *France*  
Ronin, Catherine *France*  
Sinaÿ, Pierre *France*  
Schmidt, Richard *Germany*  
Paulsen, Berit Smestad *Norway*  
Vasella, Andrea *Switzerland*  
Vliegenthart, Johannes *The Netherlands*

## **CARBOHYDRATE RESEARCH AWARD**

The *Carbohydrate Research Award for Creativity in Carbohydrate Chemistry* has been established by the editors of *Carbohydrate Research* and by the *European Carbohydrate Organisation*. The Award is sponsored by Elsevier Science. The aim of this Award is to recognize a young and promising glycoscientist, who has demonstrated excellence in research in the field. The scientist receiving the Award will be invited to present a lecture on his work at the EUROCARB Conference.

**The first Carbohydrate Research Award will be presented at EUROCARB XI and the recipient of the Award is:**

**LAURA KIESSLING**  
**University of Wisconsin, Madison, USA**

## **ORGANIZING COMMITTEE**

Rauter, Amélia P. *FCUL, Lisbon*  
Araújo, Eduarda *FCUL, Lisbon*  
Bento, Luís *CIENTECA, Porto*  
Borges, Carlos *FCUL, Lisbon*  
Caldeira, Madalena *Univ. Coimbra*  
Carvalho, Isabel Saraiva de, *Univ. Algarve*  
Coimbra, Manuel *Univ. Aveiro*  
Costa, Júlia *ITQB, Lisbon*  
Figueiredo, J. Albertino *UBI, Covilhã*  
Fonseca, Inês *FCUL, Lisbon*

Gama, Miguel *Univ. Minho, Braga*  
Humanes, Madalena *FCUL, Lisbon*  
Ismael, M. Ismael *UBI, Covilhã*  
Justino, Jorge *IPS, Santarém*  
Malcata, Xavier *ESB, Porto*  
Monteiro, Mário *Ottawa, Canada*  
Paiva, Ana P. *FCUL, Lisbon*  
Relva, Angela *FCT-UNL, Lisbon*  
Santos, Susana *FCUL, Lisbon*  
Tavares, Serafim *RAÍZ, Eixo*

## **LOCAL ORGANIZING COMMITTEE**

Almeida, Tânia *FCUL, Lisbon*  
Alves, Frederico *FCUL, Lisbon*  
Amado, Joana *FCUL, Lisbon*  
Amaral, Bruno *FCUL, Lisbon*  
Antunes, Pedro *FCUL, Lisbon*  
Antunes, Sílvia *FCUL, Lisbon*  
Bernardes, Gonçalo *FCUL, Lisbon*  
Cabecinha, João *FCUL, Lisbon*  
Cabrita, Clara *FCUL, Lisbon*  
Canda, Tana *FCUL, Lisbon*  
Cartaxo, Raquel *FCUL, Lisbon*  
Carvalho, Vera *FCUL, Lisbon*  
Encarnação, Inês *FA/UTL, Lisbon*  
Ferreira, Tiago *FCUL, Lisbon*  
Fonte, Silvio *FCUL, Lisbon*  
Francisco, João *FCUL, Lisbon*  
Gameiro, Hugo *FCUL, Lisbon*  
Gokal, Kripa *FCUL, Lisbon*  
Gomes, Raquel *FCUL, Lisbon*  
Jaime, Marta *FCUL, Lisbon*  
Lopes, Gustavo *FCUL, Lisbon*  
Louro, Sofia *FCUL, Lisbon*

Lucas, Susana *FCUL, Lisbon*  
Marcelo, Filipa *FCUL, Lisbon*  
Martins, Alice *FCUL, Lisbon*  
Mata, Ricardo *FCUL, Lisbon*  
Matos, Monica *FCUL, Lisbon*  
Nobre, Ligia *FCUL, Lisbon*  
Padilha, Maria *FCUL, Lisbon*  
Paneira, Margarida *FCUL, Lisbon*  
Pereira, Inês *FCUL, Lisbon*  
Pinto, Orlando *FCUL, Lisbon*  
Ramalho, Rui *FCUL, Lisbon*  
Ramos, Maria J. *FCUL, Lisbon*  
Rauter, Frederico *IST/UTL, Lisbon*  
Rijo, Patricia *FCUL, Lisbon*  
Rodrigues, João *FCUL, Lisbon*  
Rodrigues, Marta *FCUL, Lisbon*  
Rodrigues, Raquel *FCUL, Lisbon*  
Sardinha, João *FCUL, Lisbon*  
Serra, Hugo *FCUL, Lisbon*  
Siopa, Filipa *FCUL, Lisbon*  
Teodoro, Raquel *FCUL, Lisbon*

## ***ACKNOWLEDGEMENTS***

Caixa Geral de Depósitos  
Câmara Municipal de Lisboa  
CMS Chemicals  
Departamento de Química e Bioquímica da Faculdade de Ciências da Universidade de Lisboa  
Dias de Sousa  
ELNOR  
Elsevier  
Embassy of France  
European Union  
F. Hoffmann-La Roche Ltd.  
Faculdade de Ciências da Universidade de Lisboa  
Fundação da Faculdade de Ciências da Universidade de Lisboa  
Fundação Luso-Americana para o Desenvolvimento  
Fundo de Apoio à Comunidade Científica-Fundação para a Ciência e Tecnologia  
Glyco, Inc.  
Istituto Italiano de Cultura em Portugal  
Instituto Politécnico de Santarém  
LIDEL  
Livraria Escolar Editora  
Nestlé  
Papelaria A Desportiva  
PT Comunicações  
Raíz  
Reitoria da Universidade de Lisboa  
Secretaria de Estado do Ensino Superior  
Springer Verlag  
Syntesome GmbH  
TAP AIR PORTUGAL  
Turismo de Lisboa – Visitors & Convention Bureau  
Unilever

## ***GENERAL INFORMATION***

### ***Symposium Venue***

The 11th. European Carbohydrate Symposium will take place at the Faculty of Sciences of the University of Lisbon (FCUL), Campo Grande, Lisbon, Portugal, beginning in the afternoon of Sunday, September 2, 2001 and ending on Friday, September 7, 2001.

### ***How to reach FCUL***

Lisbon Airport is located in the city and the best way to reach FCUL or the hotels indicated in the accommodation form is to take a taxi (7.5 – 10 EURO, 1500 – 2000 PTE). There are also buses to the centre with connection by subway to the FCUL (subway **Campo Grande**, 5 min. walk from the FCUL, 0.5 EURO – 100 PTE) or to the above mentioned hotels.

### ***Registration and Information Desk***

The Registration and Information Desk is located at the Building C3 and staffed by the Scientific and the Symposium Secretariat. The Travel Agency Desk is also at the same location. They are open as follows:

Sunday, September 2	14:30 – 18:30
Monday, September 3	9:00 – 18:00
Tuesday, September 4	9:00 – 18:00
Wednesday, September 5	9:00 – 15:00
Thursday, September 6	9:00 – 18:00
Friday, September 7	9:00 – 13:00

All questions concerning organisation and social programme, scientific, and financial matters will be addressed here.

Delegates and accompanying persons are requested to register here and collect their conference bags and their pre-paid tickets.

### ***Lunch***

For regular participants and students, lunch will be served from 12:30 – 14:00 in Building C7 and is included in the registration fee from Monday, September 3 until Thursday, September 6.

### ***Live Events and Communication Network Rooms***

There will be a site on the internet where anyone can watch the speakers while they are giving their lectures. The exhibition is interactive with the participants on line. The URL for this site will be announced on the main website of the Symposium, <http://eurocarbxi.fc.ul.pt>

The delegates can check their e-mail and surf in the internet in rooms 5.1.23 and 5.1.26, located at the Building C5.

### ***Exhibition***

An exhibition of books and technical equipment related to the topics of the Symposium will be held in the main hall of Building C3, near the Auditorium 3.2.14.

### ***Language***

English will be the official language of the Symposium.

### ***Voltage***

In Portugal the line voltage is 220 V.

### ***Insurance***

Participants are responsible for arranging their own health and accident insurance.

### ***Banking***

The participants identified with the meeting's badge will be able to perform all the banking operations at the BES bank located at building C7. Most of the restaurants and shops will accept credit cards.

### ***Changing Currency***

There are facilities to change foreign currency at the Lisbon Airport and in the *Baixa* area of Lisbon (Subway Station Restauradores). Banks do not generally change foreign currency for non-clients.

### ***Climate***

The Sun is expected to be shining and the temperature will probably be around 25 - 30 °C in Lisbon.



### ***Social Programme Included in the Registration Fee***

Sunday, Sept. 2	19:00	Welcome Party sponsored by F. Hoffmann-La Roche Ltd, followed by dinner with folk-music and dance by the <i>Rancho Folclórico do Vale de Santarém</i> .
Monday, Sept. 3	18:30	Book Party at Livraria Escolar Editora, located at Campo Grande, in front of FCUL Buildings (one just needs to cross the main road).
Tuesday, Sept. 4	21:30	Concert by the <i>Orquestra Metropolitana de Lisboa</i> , sponsored by the Lisbon City Council, at the Aula Magna da Universidade de Lisboa (10 min walk from the FCUL Buildings, near Subway Station <i>Cidade Universitária</i> ).
Thursday, Sept. 6	20:30	Port of Honour and dinner at the Casino Estoril with entertainment and ball. <i>Departure from the hotels at 19:45</i>

### ***Social Programme Not Included in the Registration Fee***

Wednesday, Sept. 5	15:00	Departure to the Tours A, B or C. All tours end with dinner at the <i>Estalagem Muchaxo</i> , followed by a session of <i>Fado</i> , the well known music which is regarded as the expression of the Portuguese soul.
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#### **Tour A. Lisbon sightseeing and visit to the Oceanarium**

A half-day to discover Lisbon. A drive along the Riverside to admire *Mosteiro dos Jerónimos*, with stops at *Torre de Belém* and at the *Monumento das Descobertas* is followed by the visit to the Oceanarium, built in 1998 (<http://www.atl-turismo lisboa.pt>). Finally the bus will drive you to the Estalagem Muchaxo (<http://welcome.to/muchaxo>), where a typical Portuguese dinner will be served.

*Price including dinner: 45 EURO (9000 PTE)*

#### **Tour B. Estoril Coast and Sintra**

An unforgettable afternoon will take you to discover the “Sunny coast” and its beautiful beaches: Estoril, the colourful bay of Cascais, and the picturesque cliff of Boca do Inferno, Guincho and Cabo da Roca, the most western point of Continental Europe. A visit to the sumptuous 18<sup>th</sup>. century Queluz Palace is followed by a drive across the Sintra Mountain. The bus will bring you to the Estalagem Muchaxo, where a typical Portuguese dinner will be served.

*Price including dinner: 48 EURO (9600 PTE)*



### **Tour C. Arrábida, Sesimbra and bridges over the Tejo**

Crossing the bridge over the *Tejo*, you will have a superb view of Lisbon. Next you will visit the old *Castelo de Sesimbra*, where you can admire the beautiful scenery of *Sesimbra* fishing town. In *Azeitão* you will have the opportunity to taste the local wines in a famous wine cellar. Drive to the *Arrábida* mountain – a unique nature reserve giving an outstanding view over *Setúbal* and *Tróia* and return to Lisbon by the *Vasco da Gama* bridge. The bus will drive you to the *Estalagem Muchaxo*, where a typical Portuguese dinner will be served.

*Price including dinner: 45 EURO (9000 PTE)*

Friday, Sept. 7      20:00    **Dinner** at the restaurant *Grande Churrasqueira Campo Grande*, located near Subway Station Campo Grande (5 min walk).  
*Price: 18.5 EURO (3700 PTE)*

The delegates who wish to participate in these events may pay and get the excursion tickets/Friday night dinner ticket at the registration/travel agency desks, at least two days in advance.

### ***Accompanying Persons Social Programme***

Monday, Sept. 3      9:00    **Visit to Évora**

You will drive across the world's largest cork region for an exciting journey into the past. In *Évora*, capital of the province of *Alentejo*, you will visit the ruins of the Roman Temple, the Romanesque Gothic Cathedral, the Bones Chapel and the University. A walk along the streets will help you to enjoy this typical town considered to be a World Heritage site. Lunch is included. Driving back to Lisbon you will go through *Setúbal*, a famous fishing centre.

*Price: 65 EURO (13000 PTE)*

Thursday, Sept. 6      9:00    **Visit to Fátima**

You will drive northwards and arrive at the beautiful walled town of *Óbidos* with the picturesque streets and the *Pousada do Castelo*. Then you will drive to *Alcobaça* to visit its 12<sup>th</sup>. Century Abbey. Lunch in *Nazaré*, the most colourful of the Portuguese fishing villages, will be followed by the visit to the *Mosteiro da Batalha*. Finally you will arrive to *Fátima*, a centre of Christian faith.

*Price including lunch: 62.5 EURO (12500 PTE)*

***Pre- and Post-Symposium Tours***

Tour to Madeira Island, 3 nights

Tour to Algarve, 3 nights

Tour to Porto, 3 nights

Tour to Coimbra, 2 nights

(please check the website <http://www.portugalinsite.pt> )

***PROGRAMME SCHEDULE***

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday Glupor IV
9:00							
10:00		Scientific Programme	Scientific Programme	Scientific Programme	Scientific Programme	Scientific Programme	Plenary Lecture
11:00							Portuguese Carbohydr. Chemistry Group Meeting
12:00							
12:30		Lunch	Lunch	Lunch	Lunch		
13:30							
14:00				Scientific Programme (Poster Session)	Scientific Programme		
14:30		Scientific Programme	Scientific Programme				
15:00	Registration						
18:00			Scientific Programme (Poster Session)				
18:30				Excursion			
19:00							
19:30		Book Party					
19:45	Welcome Party and Dinner				Departure to the Casino Estoril		
21:30			Concert				

## ***SCIENTIFIC INFORMATION***

### ***Slide Preview Room***

The authors are kindly asked to contact the scientific secretariat for a preview of slides/test of data show 24 h before their presentation. The slide preview room is located in building C3, room 3.1.9.

### ***Posters***

Posters will be displayed during all the symposium. Authors are required to mount their own posters on the boards on Sunday afternoon. Material to attach posters will be provided.

#### Poster Session 1

Sept. 3            18:00 – 19:30            A001 – A171

#### Poster Session 2

Sept. 4            13:30 – 15:00            B001 – B070, C001 – C038, D001 – D022

The Scientific Committee will select 4 posters for awards.

### ***Publications***

*Carbohydrate Research* will publish a special issue containing research papers based on the work presented at the EUROCARB XI Symposium.

The normal formats for "Rapid Communication", "Full Paper" or "Note" will be used, and the manuscripts will be submitted to the usual referee/review/editorial procedures. For those wishing to submit a paper, please consult one of the editors. For information on preparing manuscripts, please refer to the "Instructions to Authors" at <http://www.elsevier.nl/inca/publications/store/4/2/4/8/2/9/>. Deadline for the submission of the manuscripts is October 31, 2001.

A *Conference Booklet* will be published, in which the importance of the scientific contributions in all sessions will be emphasized by invited experts in relation to the Society's needs in general, and to the development of future research areas in Europe in particular. Deadline for the submission of the manuscripts is October 15, 2001.

Time	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 – 9:45	<b>Opening Session</b>	<i>Chairperson:</i> <b>G. Buchanan Horst Kunz</b>	<i>Chairperson:</i> <b>H. Vliegenthart Fraser Stoddart</b>	<i>Chairperson:</i> <b>A. Dondoni Stephen Hanessian</b>	<i>Chairperson:</i> <b>:H. Paulsen Joachim Thiem</b>
9:45 – 10:30	<i>Chairperson:</i> <b>D. Horton Laura Kiessling</b>	<b>Hans Peter Wessel</b>	<b>Liisa Viikari</b>	<b>Josep Font</b>	<b>Pierre Vogel</b>
10:30 – 11:00	<b>CB</b>	<b>CB</b>	<b>CB</b>	<b>CB</b>	<b>CB</b>
11:00 - 11:30	<b>IL</b>	<b>IL</b>	<b>IL</b>	<b>IL</b>	<i>Chairperson:</i> <b>J. Defaye Harold Jennings</b>
11:30 - 11:45	<b>IL</b>	<b>IL</b>	<b>IL</b>	<b>IL</b>	
11:45 - 12:00	<b>IL</b>	<b>IL</b>	<b>IL</b>	<b>IL</b>	
12:00 - 12:30	<b>IL</b>	<b>IL</b>	<b>IL</b>	<b>IL</b>	<b>Closure</b>
12:30 - 13:30	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	<b>LUNCH</b>	
13:30 - 14:00					
14:00 - 14:45	<i>Chairperson:</i> <b>E. Hounsell Michael Ferguson</b>	<b>IL/OC</b>	<b>PS</b>	<b>II/OC</b>	
14:45 – 14:50					
14:50 – 15:00					
15:00 - 16:40	<b>IL/OC</b>				
16:40 - 17:15	<b>CB</b>	<b>CB</b>		<b>CB</b>	
17:15 - 18:00	<i>Chairperson:</i> <b>A. Pavia Hans Kamerling dedicated to Raymond Lemieux</b>	<i>Chairperson:</i> <b>R. Schmidt Ole Hindsgaul</b>		<i>Chairperson:</i> <b>A. Lipták Marek Chmielewski</b>	
18:00 - 19:30		<b>PS</b>			

## **SCIENTIFIC PROGRAMME**

The Scientific Programme consists of plenary lectures, invited lectures, oral communications and poster presentations related to glycochemistry, -biochemistry and – biotechnology. Subjects dealt with in the follow-up sessions will include:

- A. Synthesis and Combinatorial Chemistry
- B. Structure and Analysis
- C. Biochemistry, Biology and Medicinal Chemistry
- D. Biotechnology and Industry

Topics such as vaccines, bacterial pathogenicity and immune inflammatory response, development of therapeutic substances, food applications, wood chemistry, paper and fibre biotechnology, environmentally friendly carbohydrate-based materials and natural products, among others, will be presented and discussed.

All sessions held in the Auditorium will be transmitted by webcast.

***Monday, September 3, 2001***

### **Auditorium 3.2.14**

9:00                      **Opening Ceremony**  
**Carbohydrate Research Award**  
**Concert by “TRINADUS”**

*Chairperson: Derek Horton*

9:45                      **Carbohydrate Research Award Lecture**  
**SYNTHETIC MULTIVALENT CARBOHYDRATE LIGANDS**  
**AS EFFECTORS**  
Jason E. Gestwicki, Laura E. Strong, Jinwang Xu, **Laura L. Kiessling**

10:30                      Coffee Break\*

### **Session A<sub>1</sub>-Room 8.2.30**

*Chairperson: Per Garegg*

11:00              IL01              **INTRAMOLECULAR GLYCOSYLATION AS A TOOL FOR**  
**SACCHARIDE SYNTHESIS**  
**Thomas Ziegler**

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\*Coffee Breaks are sponsored by Nestlé

- 11:30 IL02 VARIOUS ASPECTS ON THE USE OF THIOLYGLYCOSIDES IN OLIGOSACCHARIDE SYNTHESIS  
**Stefan Oscarson**
- 12:00 IL03 ALLYL PROTECTING GROUP MEDIATED STEREOSPECIFIC 1,2-CIS GLYCOSYLATION  
**Antony J. Fairbanks**, Christopher M. P. Seward, Mahmoud Aloui, Ian Cumpstey

### Session B<sub>1</sub>-Auditorium 3.2.14

*Chairperson: Serge Perez*

- 11:00 IL04 NMR SPECTROSCOPY IN THE STRUCTURAL INVESTIGATIONS OF BACTERIAL AND PLANT POLYSACCHARIDES  
**Angela Savage**, Jimmy Muldoon, Michelle Cuffe, Alexander Shashkov, Anthony P. Moran, Maria G. Tuohy
- 11:30 IL05 LIPOPOLYSACCHARIDES FROM VIRULENT AND LOW-VIRULENT PHASES OF *Coxiella burnetii*, THE ETIOLOGICAL AGENT OF Q FEVER AND Q FEVER ENDOCARDITIS  
**Rudolf Toman**, Ahmed Hussein, Peter Ftáček, Peter Palkovič
- 12:00 IL06 GLYCOLIPID MEDIATORS OF PLANT-MICROBE INTERACTIONS: MASS SPECTROMETRIC STUDIES OF THEIR STRUCTURE AND BIOSYNTHESIS  
**Jane Thomas-Oates**

### Session C<sub>1</sub>-Room 8.2.47

*Chairperson: Catherine Ronin*

- 11:00 IL07 CONGENITAL DISORDERS OF GLYCOSYLATION: MODELS TO IDENTIFY ESSENTIAL STEPS IN GLYCOSYLATION PATHWAYS  
Timo Imbach, Barbara Schenk, Stephanie Grünwald, Gert Matthijs, Jaak Jaeken, Eric G. Berger, Markus Aebi, **Thierry Hennet**
- 11:30 IL08 GENETIC ANALYSIS OF THE MECHANISM OF GLYCOSYLATION OF THE EXTRACELLULAR PROTEASES OF *Porphyromonas Gingivalis*  
**Mike Curtis**, Joe Aduse-Opoku, Nik Paramonov, Minnie Rangarajan, Alexandra Gallagher, Elizabeth Hounsell