

# Carbohydrates in Portugal

## The past, the present and the future....

The Portuguese Chemical Society  
Carbohydrate Group



**Amélia Pilar Rauter**

Centro de Química Estrutural, Faculdade  
de Ciências, Universidade de Lisboa

**17-01-23**



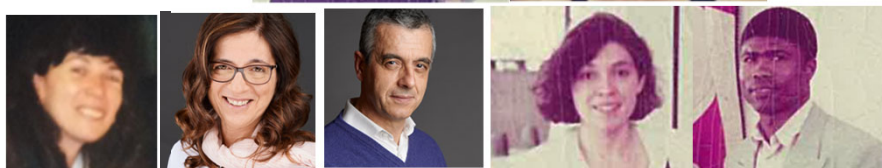
It all started  
with a dream.....

and the dream came truth....

Institut für Organische Chemie, Technische Universität  
Graz Austria, 1978

The 7th of May 1993

O Dia dos Glúcidos  
La Journée des Glucides  
Carbohydrates' Day



Meeting for the establishment of the Portuguese Chemical Society  
**Carbohydrate Chemistry Group** with the signature of 40 future members

**1994**

*Synthesis of C-disaccharides, new tools in glycobiology*

Prof. Pierre Sinaÿ,

École Normale Supérieure, Paris



**1995**


**1<sup>st</sup> International Meeting of the Portuguese Carbohydrate Chemistry Group (Glupor 1)**

Fundação Calouste Gulbenkian, Lisboa


26 - 30 September

Chaired by Amelia Pilar Rauter







**Grupo da Química dos Glúcidos**  
1st. International Meeting of the Portuguese  
Carbohydrate Chemistry Group



Lisbon, Portugal  
26-30 September, 1995  
Fundação Calouste Gulbenkian

Informações: Sr. A. P. Rauter, Departamento de Química e  
Bioquímica, Faculdade de Ciências, Universidade de Lisboa, Ed.  
C1-9,  
Campo Grande, 1700 Lisboa, Portugal  
Fax: 351-213 63 85 or 351-213 733 84 84

## 1<sup>st</sup> International Meeting of the Portuguese Carbohydrate Chemistry Group (Glupor 1)

**113 participants**  
**14 Plenary lectures**  
**12 Invited lectures**  
**9 Oral communications**  
**38 Poster presentations**  
**Argentine, Brasil,**  
**Canada, Costa Rica, France,**  
**Germany, Italy, Japan,**  
**Portugal, Spain, Sweden,**  
**Switzerland, The**  
**Netherlands, United Kingdom**



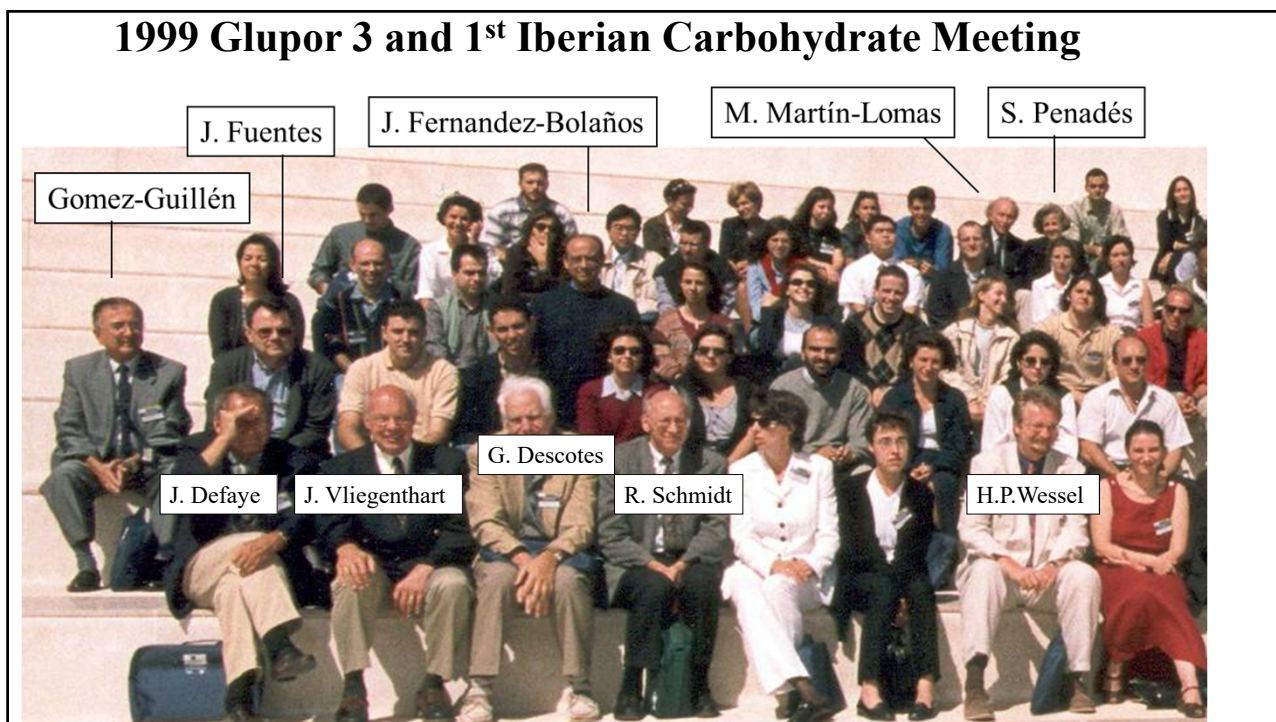
**Aveiro**  
**September 1999**    **Chaired by Manuel Coimbra**

## 1<sup>st</sup> Iberian Carbohydrate Meeting

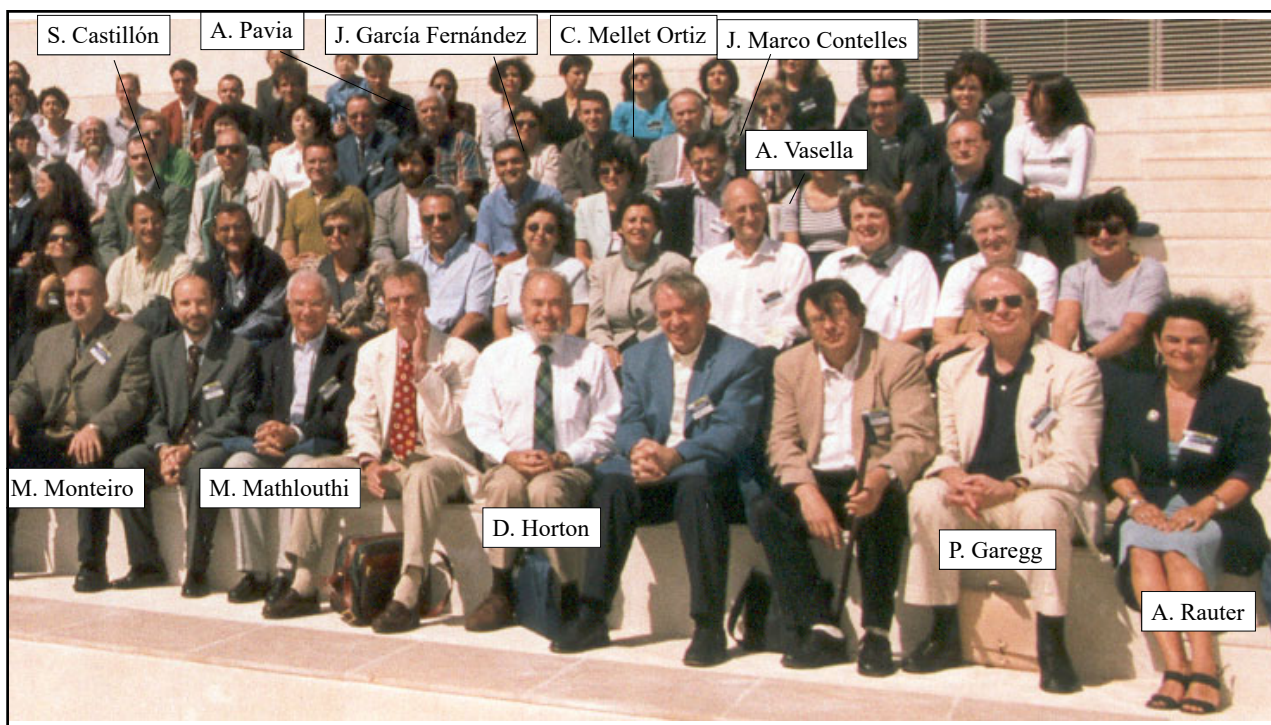
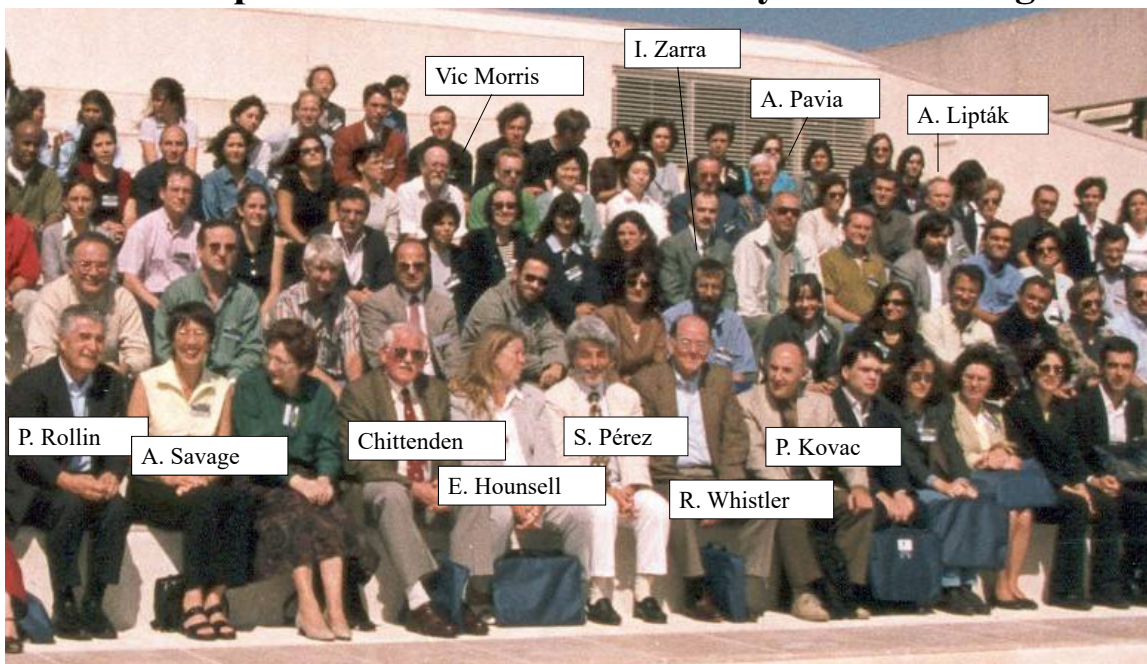
Juan Carlos Palacios

Amélia Pilar Rauter






### 1999 Glupor 3 and 1<sup>st</sup> Iberian Carbohydrate Meeting



**11<sup>th</sup> EUROPEAN CARBOHYDRATE SYMPOSIUM**



LISBOA 2001


Faculdade de Ciências da Universidade de Lisboa

Campo Grande | Lisboa | Portugal

September 2 - 7 2001

Topics focused on:

SYNTHESIS AND COMBINATORIAL CHEMISTRY	VACCINES
STRUCTURE AND ANALYSIS	IMMUNE INFLAMMATORY RESPONSE
BIOCHEMISTRY, BIOLOGY AND MEDICINAL CHEMISTRY	DEVELOPMENT OF THERAPEUTIC SUBSTANCES
BIOTECHNOLOGY AND INDUSTRY	FOOD APPLICATIONS
	WOOD CHEMISTRY
	PAPER AND FIBER BIOTECHNOLOGY



<b>Symposium Secretariat</b> Ms. Helena Weinstein Email: weinstein@fc.ul.pt Phone: +351 21 4849779 Fax: +351 21 4823140	<b>Scientific Secretariat</b> Ms. Maria Leonor Rodrigues Email: eurocarb@fc.ul.pt Phone: +351 21 7500894 Fax: +351 21 7500892
-------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------

**Deadlines:**

Early Registration	May 15, 2001
Abstract Submission	May 15, 2001
Accommodation	May 15, 2001
Social Programme	May 15, 2001

**Webpage:** <http://eurocarb.fc.ul.pt>

Additional Information and application forms can be downloaded from the Webpage

**The SPQ Carbohydrate Chemistry Group  
national representation at the  
European Carbohydrate Organisation  
was achieved in 1996**

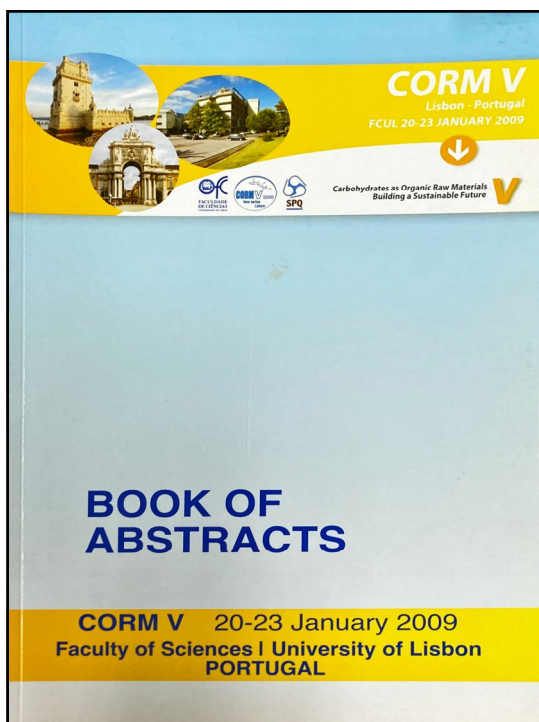
**XIth European Carbohydrate Symposium  
(EUROCARB XI) Faculdade de Ciências,  
Universidade de Lisboa, 2001**  
Funded under EU FP5-LIFE QUALITY Program  
(Grant agreement ID: QLK3-CT-2001-30035)

**617 participants, 13 plenary lectures, 55 invited lectures, 58 oral  
communications, 301 poster presentations**  
Argentine, Australia, Austria, Belgium, Canada, Czech Republic, Cuba,  
Croatia, Denmark, Egypt, France, Germany, Hungary, Ireland, Japan,  
Israel, Italy, Korea, Norway, Poland, Russia, Slovakia, Sweden, Taiwan,  
The Netherlands, Ukraine, United Kingdom, USA, Uzbekistan Republic



# Glupor 5 07-10<sup>th</sup> September 2003 Covilhã





### 356 participants, 32 Invited Lectures, 16 Oral communications, 63 poster presentations

Austria, Belgium, Brasil, Canada, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Japan, Norway, Slovakia, Spain, Switzerland, The Netherlands, United Kingdom

**Südzucker, Dionex (Germany), Fermentec (Brasil), Glycom A/S (Denmark), Hoffmann-La Roche (Switzerland) L'Oréal, Roquette (France)**

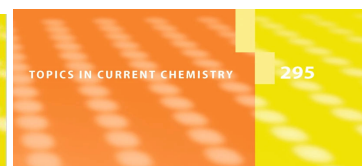


Volume Editors A.P. Rauter • P. Vogel • Y. Queneau

#### Carbohydrates in Sustainable Development I

Renewable Resources for Chemistry and Biotechnology

Springer



Volume Editors A.P. Rauter • P. Vogel • Y. Queneau

#### Carbohydrates in Sustainable Development II

A Mine for Functional Molecules and Materials

Springer

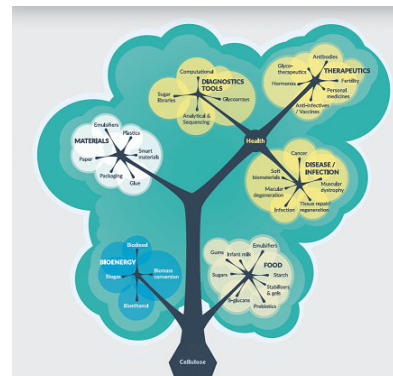




EGSF Centers of Excellence  
from Portugal:  
Carbohydrate Chemistry Lab  
FCUL – Amelia P. Rauter  
Glycology lab ITQB – Julia  
Costa

- Rauter – Steering Committee member and the Executive for the EGSF Interest Group Glycochemistry
- Glycobiology and Glycochemistry course (starting 2015)
- 2nd Euroglycoforum Steering Committee Meeting (22-23 February 2010)
- Glycosciences in the International Year of Chemistry – Applications to human health and disease (8-10 September 2011)

- A road map for Glycoscience in Europe (2015)



## GLYCOBIOLOGY & GLYCOCHEMISTRY INTERNATIONAL E-LEARNING COURSE

Coordination: Paula Videira (NMS/FCM, UNL); Amélia Pilar Rauter (CiênciasULisboa); Irene Tomé (FCSH/UNL)

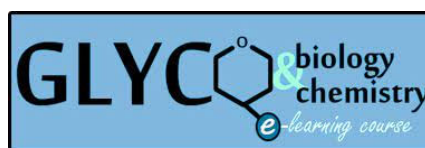
2015 - 2021  
PROGRAM

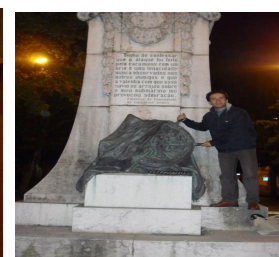
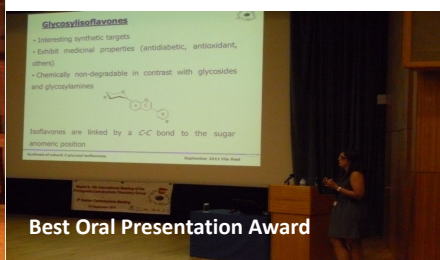
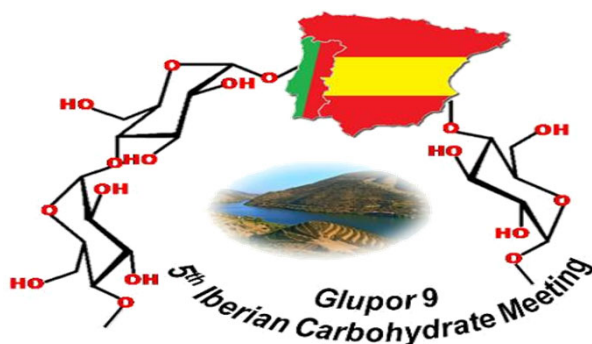
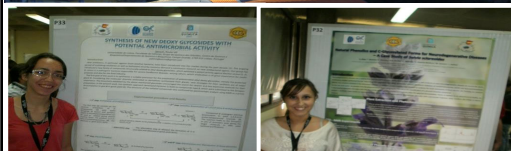
Post-graduation course in  
Glycosciences (20 ECTS)

- Module 1 - Carbohydrate Structure and Nomenclature
- Module 2 - Biosynthesis, Metabolism of Carbohydrates
- Module 3 - Glycan-binding Proteins
- Module 4 - Glycans in Human Physiological Mechanisms
- Module 5 - Glycans in Human Pathology
- Module 6 - Methods in Glycosciences
- Module 7 - Applications of Glycosciences
- Module 8 - Glycochemistry in Medicine
- Module 9 - Biosynthesis of disease related carbohydrate antigens
- Module 10- Glycomics



FUNDING  
Euroglycoforum  
FLAD  
French Embassy







# EUROCARB 17

17<sup>th</sup> European Carbohydrate Symposium  
Tel-Aviv, Israel, July 7-11, 2013



May 2014



## Glycobiology and glycochemistry: Applications to human health and disease

26 – 30 May 2014 | Lisbon, Portugal





The SPQ Carbohydrate Chemistry Group national representation at the International Carbohydrate Organisation was achieved in [1997](#).

Portugal has participated in all meetings since then and has given the following major contributions:

- Proposed the creation of the **ICO Young Researcher Award**, which started in 2014 (27th International Carbohydrate Symposium, India) and continued since then.

Ceremony to award  
Dr Daniel Kracher with the  
ICO Young Researcher Award 2020



- Organized the 29th International Carbohydrate Symposium in 2018.



Amélia P. Rauter\*, Nikolay Nifantiev and Francesco Nicotra

ICS-29: The 29th International Carbohydrate Symposium

<https://doi.org/10.1515/pac-2019-0815>

The carbohydrate community met at the Universidade de Lisboa and at its Faculdade de Ciências, in Portugal, for the 29th International Carbohydrate Symposium, held from the 15th to the 19th of July 2019, an event under the auspices of the International Carbohydrate Organisation. **In issues 7 and 9 of Pure and Applied Chemistry volume 91 (2019), papers covering glycoscience topics discussed in this meeting are presented.**

