

GLYC & biology chemistry *e-learning course*

15th April to 15th October 2015

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LECTURERS

Alexandre Ferreira - Portugal	Joseph Lau - USA
Amélia Pilar Rauter – Portugal	Joy Burchel - UK
Angelina Palma - Portugal	Koichi Fukase - Japan
Anne Dell - UK	Marco Trinchera - Italy
Anne Imberty - France	Michaela Wimmerova - Czech Republic
Antoni Planas - Spain	Paula Videira – Portugal
Antonio Molinaro - Italy	Philippe Delannoy - France
Catherine Ronin - France	Richard Schmidt - Germany
Celso Reis - Portugal	Robert Sackstein - USA
Christelle Breton - France	Rui Vitorino - Portugal
Dirk Lefeber - Netherland	Sabine Flitsch - UK
Fabio Dall'Olio - Italy	Serge Perez - France
Hans H. Wandall - Denmark	Stefan Oscarson - Ireland
Guadalupe Cabral - Portugal	Ten Feizi - UK
Inês Ferreira - Portugal	Vanessa Ferreira –Portugal
Irene Tomé – Portugal	Yves Queneau - France
Jaak Jaeken - Belgium	Yvette Van Kooyk - Netherland
Jesus Jiménez Barbero - Spain	

Coordination

Paula Videira (NMS | FCM/UNL)
Amélia Pilar Rauter (FC/UL)
Irene Tomé (FCSH/UNL)

Application deadline

7th April 2015

INFORMATION AND REGISTRATION

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ORGANIZATION



GLYCOBIOLOGY & GLYCOCHEMISTRY: INTERNATIONAL E-LEARNING COURSE

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PRESENTATION

Glycoscience has become a vibrant, expanding and important extension of modern molecular biology and medicine. In this course, a team of acknowledged glycoscientists will demonstrate how interdisciplinary areas in Glycosciences have provided solutions and offered tools for demanding health problems. This is the first course in Glycobiology and Glycochemistry, offered in an e-learning format to enhance the outreach of Glycosciences to the broader scientific community. Funded mainly by the Euroglycoforum, this course is also one of the deliverables of the European Innovation Partnership on Active and Healthy Ageing (EIP AHA) – Action Group A3, dedicated to the prevention of functional decline and frailty, built within the EIP AHA A3 consortium by NMS|FCM and FCUL. This Glycobiology and Glycochemistry course aims to create a forum of “scientifically bilingual” investigators fluent in glycan chemistry and biology that will sustain and advance the application of Glycosciences to human health.

AIMS

This course aims to provide an easy-to-understand, succinct, and current overview of the fundamental facts, concepts, and methods in Glycosciences. It aims to encourage research in Glycosciences, by revealing the complex involvement of glycans in distinct human-related physiological and pathological conditions.

TARGET

The course is designed to train pre-and post-doctoral scientists, within areas related with Chemistry or Biology. It also includes physicians and educators interested in furthering Glycosciences.

PROGRAMME

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

SCIENTIFIC COORDINATORS

Paula Videira—Portugal

Amélia Pilar Rauter—Portugal

Celso Reis - Portugal

Serge Perez - France

Nuno Xavier—Portugal

GENERAL INFORMATION

Workload: 560h

ECTS: 20

Type of Assessment Methods: Performance along the activities included in the course final online examination and/or a report.

Admission Criteria: *Curriculum vitae* and motivation letter.

Course Attendance Requirements: Not applicable - all activities will be developed online.

Application: 25€

Registration: 35€

Fee: 300€ (15% discount for NMS|FCM alumni)