

16th GABBA COURSE (2013)

Module: "IRON BIOLOGY"

Chair:

Graça Porto, ICBAS, University of Porto

Such as in previous editions, this course module is aimed to introduce students to the most recent developments in the field of iron biology, its regulatory mechanisms, genes and proteins involved, and the clinical implications of its deregulation. The students will be stimulated to discuss the main and most controversial research topics in the field. They are also expected to learn the importance of knowledge transfer from basic science to clinical research. The iron biology field comprises many good examples of such translational research. To attain these objectives, the students will have a close contact, during interactive tutorial classes (IAT), with Portuguese researchers leading projects of basic and clinical research in iron biology and also with other well recognized top quality international experts in the field in sessions designated as "Meet the Experts" (MEX). **These sessions will be chaired by the students themselves.** At the end of the course, students will be also challenged to respond to some questions posed by teachers in the form of short communications.

The Program schedule is shown in the Table attached

Monday, May 20

Tuesday, May 21

Wednesday, May 22

Thursday, May 23

Friday, May 24

10:00 - 10:30	Introduction to the course and week planning <i>Graça Porto (course Director)</i>				
10:30 - 12:30	IAT1: "Iron Biochemistry and Toxicity" <i>Conceição Rangel, ICBAS, University of Porto</i>	IAT3: "Iron and Oxidative Stress" <i>Tiago Duarte, IBMC, Porto</i>	MEX1: "Genetic regulation of Systemic Iron Homeostasis" <i>Martina Muckenthaler, Heidelberg, Germany</i>	MEX3: "Iron & Infection" <i>Hal Drakesmith, Oxford, UK</i>	MEX5: "Hepcidin Regulation & Hypoxia" <i>Carole Peyssonnaud, Paris, France</i>

Chaired by students

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15:00 - 17:00	IAT2: "The importance of clinical models to explore iron homeostasis: the example of Hemochromatosis" <i>Graça Porto, ICBAS, University of Porto</i>	IAT4: "Iron and the Brain" <i>Fernanda Marques, ICVS, University of Minho</i>	MEX2: "Cellular Iron Trafficking" <i>Caroline Enns, Portland, USA</i>	MEX4: "Erythropoiesis and erythroid iron intake" <i>Stefano Rivella, NY, USA</i>	<i>Students' communications</i>
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17:00
"Visit to CGPP, the Centre for Predictive and Preventive Genetics at IBMC" (*guided by Graça Porto*)

20:00

Course Dinner