

## **Oncobiology 2017**

### **The structure of the module:**

This module (6<sup>th</sup> February – 17th February) has the following structure: lectures and seminars, and work on cancer research projects.

### **The aims of the module:**

The Oncobiology module will have sessions to discuss biological/molecular mechanisms of cancer development and progression. Sessions will include discussion of clinical cases followed by open discussions with the students about the underlying etiological factors, the biological pathways and molecular mechanisms underlying pathological lesions. The sessions will include:

- 1- Presentation of clinical cases (sporadic and hereditary)
- 2- Pathological aspects of the tumours
- 3- Etiology and molecular basis of the disease

**Teaching staff:** Researchers and Professors from IPATIMUP/i3S, the Medical Faculty, and Post-docs.

## **Monday, 6th February**

### Morning:

9.00-10.00 - Documents and structure of the module (Participants: R Seruca and Celso Reis)

10:00.12:00- Distribution of the projects (Raquel Seruca and Celso Reis, with the collaboration of Paula Soares, Carla Oliveira, Raquel Almeida, José Carlos Machado).

12:00 – 13:00 Projects preparation/discussion

### Afternoon:

15.00-17:30 - Cancer genes: Beyond the classic dual division (Participant: M Sobrinho-Simões)

17.30-19.00 – Projects preparation/discussion.

## **Tuesday, 7th February**

### Morning:

9.30-12.30 – Oncogenes and Tumor suppressor genes  
(Participants: Raquel Seruca, Sofia Fernandes, Patricia Carneiro)

### Afternoon:

14.30-17.30 – Metabolism and cancer  
(Participants: Valdemar Máximo, Jorge Lima, M Sobrinho-Simões).

17.30-19.00 – Projects preparation/discussion.

### **Wednesday, 8th February**

#### Morning:

9.30-12.00 – Infection and cancer: “the example of *Helicobacter pylori* and gastric carcinoma”

(Participants: Céu Figueiredo, Marina Leite, Rui Ferreira)

#### Afternoon:

14.30-17.30 – Tumor Immortalization and Growth

(Participants: Paula Soares, Ana Preto, João Vinagre)

18.00-19.00 – Projects preparation/discussion.

### **Thursday, 9th February**

#### Morning:

9.30-12.30 – Communication and genetic dynamics of cancer cells

(Participants: José Carlos Machado, José Luís Costa, Sónia Melo)

#### Afternoon:

14.30–17.30 – Cancer stemness and differentiation

(Participants: Joana Paredes, Raquel Almeida, Rita Barros)

18.00-19.00 – Projects preparation/discussion

### **Friday, 10th February**

#### Morning:

9.30-12.00 – Tumor microenvironment

(Participants: Maria Oliveira, S ergia Velho)

#### Afternoon:

14.30-17.30 – Metastization (Participants: Leonor David, Ana Sofia Ribeiro)

## **Monday, 13th February**

### Morning:

9.30-12.30 – Glycosylation in cancer development and progression  
(Participants: Celso A. Reis, Salomé Pinho, Ana Magalhães)

### Afternoon:

15.00-17.00 – Proteomics applications in Cancer Research  
(Participants: Celso A. Reis, Hugo Osório, Catarina Gomes)

17.30-18.30 – Projects preparation/discussion.

## **Tuesday, 14th February**

### Morning:

9.30-12.00 – Immunology, chronic inflammation and cancer  
(Participants: Manuel Vilanova, Salomé Pinho, Nuno Santos)

### Afternoon:

14.30-15.30 – "Redefining germline mechanisms of disease"  
(Participant: Carla Oliveira)

16.00-18.00 – Projects preparation/discussion.

## **Wednesday, 15th February**

### Morning:

9.30-12.00 – DNA/RNAomics and Bioinformatics: applications in Cancer  
(Participant: Patricia Oliveira; Pedro Ferreira)

### Afternoon:

14:30-18.00 - Projects preparation/discussion.

## **Thursday, 16th February**

### Morning:

9.30-12.00 – Cancer treatment and Drug resistance  
(Participant: Helena Vasconcelos, Gabriela Almeida)

### Afternoon:

14:30 – 16:30 – Cancer cell invasion  
(Participants: Fátima Carneiro, Joana Figueiredo)

17.00 – 19:00 Projects preparation/discussion.

## **Friday, 17th February**

### Morning:

9.30 - 12.30 – Projects preparation/discussion.

### Afternoon:

14.00 - 18.00 - Projects: presentations and general discussion.