

Oncobiology 2018

The structure of the module:

This module (26th February – 9th March) 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, Medical Faculty, and Post-docs.

Monday, 26th February

Morning:

9.30-10.30 - Documents and structure of the module (Participants: R Seruca and Celso Reis)

10.30.12:00- Distribution of the projects (Raquel Seruca and Celso Reis, with the collaboration of Paula Soares, Carla Oliveira, José Carlos Machado, Céu Figueiredo).

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, 27th February

Morning:

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

Afternoon:

14.30-17.30 – Tumor Immortalization and Growth (Participants: Paula Soares, Ana Preto, João Vinagre)

17.30-19.00 – Projects preparation/discussion.

Wednesday, 28th February

Morning:

9.30-12.00 – Cancer stemness and differentiation (Participants: Joana Paredes, Raquel Almeida)

Afternoon:

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

18.00-19.00 – Projects preparation/discussion.

Thursday, 1st March

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 cell invasion
(Participants: Fátima Carneiro, Joana Figueiredo)

18.00-19.00 – Projects preparation/discussion

Friday, 2nd March

Morning:

9.30-12.00 – Tumor microenvironment
(Participants: Maria Oliveira, SÉrgia Velho)

Afternoon:

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

Monday, 5th March

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, 6th March

Morning:

9.00-12.00 – Immunology, chronic inflammation and cancer
(Participants: Manuel Vilanova, Salomé Pinho, Nuno R. Santos)

Afternoon:

14.30-16.30 – Infection and cancer: “the example of *Helicobacter pylori* and gastric carcinoma”

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

17.00 -18.00 – DNA/RNAomics and Bioinformatics – Part I: applications in Cancer (Participant: Pedro Ferreira)

Wednesday, 7th March

Morning:

9.00-13.00 – Projects preparation/discussion.

Afternoon:

14:30-15.30 – "Redefining germline mechanisms of disease"
(Participant: Carla Oliveira)

16:00-17.00 – – DNA/RNAomics and Bioinformatics – Part II: applications in Cancer (Participant: Patricia Oliveira)

17.00-19.00 – Projects preparation/discussion.

Thursday, 8th March

Morning:

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

Afternoon:

14:30-15.00 – Projects preparation/discussion.

15:00 – 17:00 – GABBA students' presentations on Cancer

Friday, 9th March

Morning:

9.30 - 12.30 – Projects preparation/discussion.

Afternoon:

14.00 - 18.00 – Projects: presentations and general discussion.