



Radiobiology Pre-meeting course

Innovative models to assess efficacy and toxicity treatment combination with radiotherapy

ESTRO 2022, 6-10 May 2022, Copenhagen, Denmark

Friday, 6 May 2022, from 08:30 to 17:00

Course directors:

- François Paris, Radiobiologist, CRCI2NA /INSERM UMR1307/ CNRS 6075 (FR)
- Rob Coppes, Radiobiologist, Department of Biomedical Sciences of Cells & Systems, FB30, Section Molecular Cell; Biology Department of Radiation Oncology, University Medical Center Groningen, University of Groningen (NL)

Faculty

- Lara Barazzuol, Radiobiologist, University Medical Center Groningen (NL)
- Anthony Chalmers, Clinical Oncologist, Institute of Cancer Sciences, University of Glasgow, The Beatson West of Scotland Cancer Centre (UK)
- Charles Fouillade, Radiobiologist, Institut Curie (FR)
- Abigail Jackson, Stem cell and developmental biologist, Assistant Professor, Institute for cell and molecular medicine within the University of Copenhagen (DK)
- Martti Maimets, Postdoc, Jensen group, The Novo Nordisk Foundation Center for Stem Cell Medicine (reNEW), University of Copenhagen (DK)
- Roel Quintens, Radiobiologist Belgian, Nuclear Research Centre (BE)
- Antonella Raffo-Romero, Université de Lille, INSERM, U1192 – Laboratoire Protéomique, Réponse Inflammatoire et Spectrométrie de Masse (PRISM), F-59000 Lille (FR)
- Marc Vooijs Professor, Doctor Chair Department of radiotherapy, Maastricht University (NL)

Programme

Time slot	Title	Teacher
08:45 - 09:00	Pre-meeting starts/Introduction	F. Paris (FR) & R. Coppes (NL)
09:00 - 09:30	Air Liquid interphase models (lungs and others)	M. Vooijs (NL)
09:30 - 10:00	Organoids from tissue to study radiation responses	R. Coppes (NL)
10:00 - 10:30	Brain organoids as models to study radiation-induced neurotoxicity	L. Barazzuol (NL)
10:30 - 11:00	COFFEE BREAK	
11:00 - 11:30	Bioprinting	F. Paris (FR)

11:30 - 12:00	Use of organotypic slices for radiation research	C. Fouillade (FR)
12:00 - 12:30	3D models of breast cancer and Omics applications	A. Raffo-Romero (FR)
12:30 - 14:00	LUNCH	
14:00 - 14:30	Revealing dynamic aspects of a cellular niche through 3D live imaging	A. Jackson (DK)
14:30 - 15:00	Modelling tissue patterning in three dimensions	M. Maimets (DK)
15:00 - 15:30	Single-cell sequencing for (radio)biologists	R. Quintens (BE)
15:30 - 16:00	COFFEE BREAK	
16:00 - 16:30	Cancer Organoids and prediction to the clinic	A. Chalmers (UK)
16:30 - 17:00	Discussion and Summary	R. Coppes (NL)/F. Paris (FR)
17:00	Close of pre-meeting	