



Interaction between the tumor ecosystem (microenvironment) and radiation

Online Course - Starting date

- 2 November: pre-recorded lectures releasing
- 16 November: 1h Webinar + Q&A
- 17 November: 1h Webinar + Q&A

Course Directors

Jan Bussink (NL)
Udo Gaipl (DE)
Heidi Lyng (NO)

Faculty

Erik Aarntzen (NL)
Marleen Ansems (NL)
Dirk de Ruyscher (NL)
Magnus Dillon (UK)
Benjamin Frey (DE)

Abhishek Garg (BE)
Geoff Higgins (UK)
Inigo Martinez-Zubiaurre (NO)
Roger Sun (FR)

Programme

Title	Teacher
Pre-meeting introduction	<i>Udo Gaipl (DE), Heidi Lyng (NO) and Jan Bussink (NL)</i>
Introduction to the cellular and molecular processes in the tumor microenvironment	<i>Marleen Ansems (NL)</i>
Deciphering T cell exhaustion in immuno-oncology: melanoma versus glioblastoma	<i>Abhishek Garg (BE)</i>
Transformation of immune regulatory networks in the tumor stroma	<i>Inigo Martinez-Zubiaurre (NO)</i>
Hypoxia in the tumor microenvironment: biology and imaging	<i>Heidi Lyng (NO)</i>
Targeting Tumour Metabolism To Reverse Tumour Hypoxia	<i>Geoff Higgins (UK)</i>
Radiomics approach to assess tumor-infiltrating immune cells and response to immune- and/or radiotherapy	<i>Roger Sun (FR)</i>
Pre-clinical PDL1 PET/SPECT imaging after radiotherapy	<i>Erik Aarntzen (NL)</i>
Immune biological rationales for combination of radiotherapy with immunotherapies	<i>Benjamin Frey (DE)</i>

ESTRO 2020



(Pre-)Clinical studies; ATR and DNA damage and Immune response; Phase 1 Head and neck study	<i>Magnus Dillon (UK)</i>
Success story: Chemo radiotherapy immunotherapy in lung cancer	<i>Dirk de Ruyscher(NL)</i>