

ESTRO 2024 - Brachytherapy Pre-meeting course

Radiobiology and modelling in Brachytherapy

Friday, 3 May 2024, from 08:30 to 17:00

Course directors:

- Jean-Michel Hannoun-Levi, Radiation Oncologist, Antoine Lacassagne Cancer Center - University Côte d'Azur (FR)
- Frank-André Siebert, Medical Physicist, UKSH, Campus Kiel Clinic of Radiotherapy (DE)

Faculty:

- Artur Chyrek, Radiation Oncologist, Greater Poland Cancer Centre (PL)
- Franziska Eckert, Radiation Oncologist, Medical University of Vienna, Department of Radiation Oncology (AT)
- Jose-Luis Guinot, Radiation Oncologist, Foundation Instituto Valenciano de Oncologia (IVO) Valencia (ES)
- Taran Hellebust, Medical Physicist, Oslo University Hospital (NO)
- Peter Hoskin, Clinical oncologist, Mount Vernon Cancer Centre and Division of Cancer Sciences, University of Manchester (UK)
- Christian Kirisits, Medical Physicist, Medical University of Vienna (AT)
- Bradley Pieters, Radiation Oncologist, Amsterdam University Medical Centers (NL)
- Alexandra Stewart, Clinical Oncologist, Royal Surrey County Hospital, Guildford (UK)
- Luca Tagliaferri, Radiation Oncologist, Policlinico Universitario Agostino Gemelli, IRCCS - Rome (IT)
- Kari Tanderup, Medical Physicist, Aarhus University/Aarhus University Hospital (DK)
- Dorin Todor, Medical Physicist, Virginia Commonwealth University (US)
- Piotr Wojcieszek, Radiation Oncologist, The Maria Sklodowska-Curie National Research Institute of Oncology, Gliwice Branch (PL)

Programme

Time slot	Title	Teacher
08:30 - 10.30	Fundamentals of BT Radiobiology	
08:30 - 09.00	BT radiobiology history	TBC
09:00 - 09.30	Biology and Brachytherapy	A. Chyrek (PL)

09:30 - 10.00	α/β	F. Eckert (AT)
10:00 - 10.30	Re-irradiation	D. Todor (US)
10:30 - 11:00	<i>COFFEE BREAK</i>	
11:00 - 12.30	Pre-clinical radiobiology approach	
11:00 - 11.30	PDR vs HDR	B. Pieters (NL)
11:30 - 12.00	BT vs best external beam techniques	C. Kirisits (AT)
12:00 - 12.30	High dose regions (focal/integrated boost)	K. Tanderup (DK)
12:30 - 14:00	<i>LUNCH BREAK</i>	
14.00 - 15.30	Clinical radiobiology approach (1)	
14.00 - 14.30	Optimal number of BT fractions: is less always better?	P. Wojcieszek (PL)
14.30 - 15.00	Radiobiology in Brachytherapy Cervical Cancer	T. Hellebust (NO)
15.00 - 15.30	Radiobiology in Brachytherapy Prostate Cancer	P. Hoskin (UK)
15:30 - 16:00	<i>COFFEE BREAK</i>	
16.00 - 17.00	Clinical radiobiology approach (2)	
16.00 - 16.20	Radiobiology in Brachytherapy Breast Cancer	J. L. Guinot (ES)
16.20 - 16.40	Radiobiology in Brachytherapy Skin/H&N Cancers	L. Tagliaferri (IT)
16:40 - 17:00	Radiobiology in Brachytherapy GI cancers	A. Stewart (UK)