

# The current success of radiotherapy and future challenges: Physics meets Medicine

<i>Day 1: 20.11.2017: The success of radiation therapy: the physics and the clinical point of view</i>		
Speaker	Topics	Time
Oliver Jäkel (DKFZ, Germany)	Increased cure rate in the last decades of RT: the <u>physical</u> point of view (improvements in technology)	9:15-10:00
Eugenio Vinés (Centro de Cáncer UC-Christus, Chile)	Increased cure rate in the last decades of RT: the <u>clinical</u> point of view (improvements in survival)	10:00 -10:45
<i>Coffee Break</i>		10:45-11:15
Student sessions	15 minutes presentations	11:15-12:00
<i>Lunch break</i>		12:00-14:00
15 minutes presentations	15 minutes presentations	14:00-14:45
Heinz-Peter Schlemmer (DKFZ, Germany)	Innovations in Cancer Imaging: Radiomics and AI	14:45-15:30
<i>Coffee Break</i>		15:30-16:00
Alan Nahum (University of Liverpool, UK)	The impact of radiobiology on the success of current radiotherapy	16:00-16:45
Plenary discussion		16:45-17:15
<i>Get together</i>		17:15

<i>Day 2: 21.11.2017 Radiation toxicity: the physics and the clinical point of view</i>		
<b>Speaker</b>	<b>Topics</b>	<b>Time</b>
Alan Nahum (University of Liverpool, UK)	Biological optimization of radiotherapy plans I	9: 30-10:15
Alan Nahum (University of Liverpool, UK)	Biological optimization of radiotherapy plans II	10:15-11:00
<i>Coffee Break</i>		11:00-11:30
Ignacio Espinoza (PUC, Chile)	In silico modelling of the effects of radiotherapy on tumors	11:30-12:15
<i>Lunch break</i>		12:15-14:15
Karen Gosset (Clínica Alemana, Chile)	Toxicity after breast ca radiotherapy	14:15-14:45
Tomás Merino (Centro de Cáncer UC-Christus, Chile)	Toxicity after prostate ca radiotherapy	14:45-15:15
Sebastian Adeberg (Heidelberg University Hospital, Germany)	Toxicity after SBRT for lung ca	15:15-15:45
<i>Coffee Break</i>		15:45-16:15
Semi Harrabi (Heidelberg University Hospital, Germany)	Central Nervous System toxicity	16:15-17:00
Semi Harrabi (Heidelberg University Hospital, Germany)	Radiation cognitive effects in radiotherapy	17:00-17:45

<i>Day 3: 22.11.2017 Second primary cancer: the physics and the clinical point of view</i>		
<b>Speaker</b>	<b>Topics</b>	<b>Time</b>
Francisco Sánchez Doblado (University of Seville, Spain)	Peripheral dosimetry I	9:15-10:00
Francisco Sánchez Doblado (University of Seville, Spain)	Peripheral dosimetry II	10:00-10:45
<i>Coffee Break</i>		10:45-11:15
Uwe Schneider (U. of Zurich, Switzerland)	Models for the risk of Second cancer after radiotherapy I	11:15-12:00
Uwe Schneider (U. of Zurich, Switzerland)	Models for the risk of Second cancer after radiotherapy II	12:00-12:45
Beatriz Sánchez-Nieto (PUC, Chile)	Uncomplicated and cancer free control probability	12:45-13:30
Closing words		13:30-13:45