



## ONLINE SCIENTIFIC PROGRAMME

### Course Directors

Martin Pruschy  
Marie-Catherine Vozenin

### Faculty

Tim Illidge  
Conchita Vens  
Marc Vooijs  
Daniel Zips

### DAY 1 – SUNDAY 8 NOVEMBER

Time	Lecture	Speaker
10.00 – 10.15	Introduction to Course	
10.15 – 10.45	Hallmarks of Cancer and the 5Rs of radiobiology	M. Pruschy
10.45 -11.15	<i>Coffee Break</i>	
11.15 – 11.45	Technology update 1- in vitro	C. Vens
11.45 -12.15	Technology update 2- in vivo	M. Vooijs
12.15 - 13.30	<i>Lunch</i>	
13.30 – 14:15	Tutorial 1	M. Vooijs/M. Pruschy
14.15 – 15.05	Genomic instability and DNA damage response - Mini tutorial	C. Vens
15.05 – 15.35	<i>Coffee break</i>	
15.35 – 16.25	Cell proliferation and signalling - Mini tutorial	MC. Vozenin

### DAY 2 – MONDAY 9 NOVEMBER

Time	Lecture	Speaker
09.30 – 09.45	Revision of material covered on day 1	MC. Vozenin
09.45 – 10.15	Modes of radiation-induced cell death	M. Pruschy
10.15 – 10.45	Metabolism and radiation response	C. Vens
10.45 -11.15	<i>Coffee Break</i>	
11.15 – 12.30	Tutorial 2 on the 2 previous lectures	C. Vens / MC. Vozenin
12.30 - 13:30	<i>Lunch</i>	
13.30 – 14.00	Tumor microenvironment and radiation response	M. Vooijs
14:00 – 14.30	Metastasis and outcome after radiotherapy	D. Zips
14.30 – 15.00	<i>Coffee break</i>	
15.00 - 16.30	Tutorial 3	M. Vooijs/ D. Zips



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### DAY 3 – TUESDAY 10 NOVEMBER

Time	Lecture	Speaker
09.30 – 09.45	Revision of material covered on day 2	D. Zips
09.45 – 10.15	Lecture 1: Radio-immunology Basics immunology	T. Illidge
10.15 – 10.45	Lecture 2: Radio-immunology How irradiation affects the immune system Primary, mets, abscopal, adaptive/innate	M. Pruschy/MC. Vozenin
10.45 – 11.15	<i>Coffee Break</i>	
11.15 – 12.30	Tutorial	T. Illidge
12.30 – 13:30	<i>Lunch</i>	
13.30 – 14.00	Lecture 3: Radio-immunology Combine RT + agents preclinical towards clinics	T. Illidge
14:00 – 15.30	Tutorial 4: therapeutic window	All

### DAY 4 – WEDNESDAY 11 NOVEMBER

Time	Lecture	Speaker
09.30 – 09.45	Revision of material covered on day 3	M. Pruschy
09.45 – 10.15	Tumor evolution and complexity	D. Zips
10.15 – 10.45	Radiobiology of experimental beams	MC. Vozenin
10.45 – 11.15	<i>Coffee Break</i>	
11.15 – 12.30	Tutorial 5 including Teachers' challenge and end of the course	All