

Course Leaders

Prof. Iuliana Toma-Dasu, PhD

Medical Radiation Physics, Stockholm University and Karolinska Institutet, Stockholm, Sweden

<https://www.su.se/english/profiles/iuda0736-1.187652>

Prof. Joao Seco, PhD DABR

German Cancer Research Center (DKFZ) and Heidelberg University, Heidelberg, Germany

<https://www.dkfz.de/en/medizinische-physik-radioonkologie/index.php>

List of confirmed speakers (in alphabetical order)

PD Dr. Elke Beyreuther

Laser Particle Acceleration, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, Germany

<https://www.hzdr.de/db/!ContMan.Visi.Card?pUser=1145&pNid=1483>

Pierre Montay-Gruel, PhD

Guest Professor in the Department Molecular Imaging – Pathology – Radiotherapy – Oncology, University of Antwerpen, Antwerpen, Belgium

https://www.uantwerpen.be/en/staff/pierre-montay-gruel_23576/

Cristian Fernandez Palomo, PhD

Senior Research Assistant in the Institute of Anatomy at the Faculty of Medicine, University of Bern, Bern, Switzerland

https://www.anatomie.unibe.ch/about_us/team/detail/index_eng.php?id=464

Kristoffer Petersson, PhD

Research Group Leader Physics and Biology of FLASH Radiation at the Department of Oncology, University of Oxford, Oxford, UK

<https://www.oncology.ox.ac.uk/team/kristoffer-petersson>

Prof. Marie-Catherine Vozenin, PhD

Associate Professor, Lausanne University Hospital CHUV and University of Lausanne, Switzerland

<https://sccl.ch/researchers/vozenin-marie-catherine/>

Prof. Charles Limoli, PhD

Clinical Professor of Radiation Oncology, University of California, Irvine, CA, USA

<https://cnlm.uci.edu/limoli/>

Prof. P. Jack Hoopes, PhD

Adjunct Professor of Engineering

Professor of Surgery and Radiation Oncology, Dartmouth Geisel School of Medicine, Hanover, NH, USA

<https://engineering.dartmouth.edu/community/faculty/p-jack-hoopes#>

Prof. Billy W Loo, Jr, MD, PhD, FASTRO FACR

Professor of Radiation Oncology, Loo Lab, Radiation Oncology, Stanford Medicine, Stanford, CA, USA

<https://med.stanford.edu/profiles/6839>

Workshop - The Role of Oxygen in FLASH Radiation Therapy (RT) Program draft (as of Jan. 18th 2024)

Monday June 17 2024 – FLASH 2024		
Introductory lecture		
09:00-09:30	Introduction to the Workshop	<i>Iuliana Toma-Dasu and Joao Seco</i>
Session 1 – Introduction and History of FLASH <i>Chairperson: Joao Seco</i>		
09:30-10:00	Paradoxical role of Oxygen and Hypoxia in normal tissue vs tumor response to FLASH	<i>Marie-Catherine Vozenin</i>
10:15 – 10:45 Coffee break		
10:00-10:30	Mechanisms underlying neurocognitive sparing following FLASH radiotherapy	<i>Charles Limoli</i>
10:30-11:00	Pre-clinical studies of the impact of oxygen in FLASH-RT	<i>Pierre Montay-Gruel</i>
11:00-11:30	Development novel technology for FLASH	<i>Billy Loo</i>
11:30-12:00	General discussion – Session 1	<i>Moderator: Speakers</i>
12:00-13:30 Lunch break		
Session 2 – Impact of oxygen in FLASH studies <i>Chairperson: Iuliana Toma-Dasu</i>		
13:30-14:00	Zebrafish embryo studies of the role of oxygen in the FLASH effect	<i>Elke Beyreuther</i>
14:00-14:30	The FLASH effect is modulated by oxygen	<i>Kristoffer Petersson</i>
14:30-15:00	The rise and fall of oxygen depletion	<i>Joao Seco</i>
15:00-15:30	General discussion – Session 2	<i>Moderator: Speakers</i>
15:30-16:30 Coffee break		
Session 3 - Pre-clinical studies of the impact of O₂ during radiation <i>Chairperson: Joao Seco</i>		
16:30-17:00	Translational Flash RT: The effect of anesthesia, oxygen and animal model	<i>Jack Hoopes</i>

Evening: Get Together at DKFZ

Tuesday June 18 2024 – FLASH 2024

Session 3 – Impact of O₂ during radiation or FLASH-RT

Chairperson: ?????

09:00-09:30	Dose painting accounting for oxygenation	<i>Iuliana Toma-Dasu</i>
09:30-10:00	Spatially Fractionated RT with and without Ultra-High dose rates	<i>Cristian Fernandez</i>
10:00-10:30	General discussion – Session 3	<i>Moderator: Speakers</i>

10:30-11:00 Coffee break

Session 4 – Neurological FLASH studies

Chairperson: *Iuliana Toma-Dasu*

11:00-11:30	Redox Modulation of the FLASH effect	<i>Francesca Pagliari</i>
11:30-12:00	Electron FLASH in-vivo results	<i>Jack Hoopes</i>

12:00-13:30 Lunch break

Session 4 – ACCEPTED Abstracts

Chairperson: ?????

13:30-14:00		
14:00-14:30		

14:30-15:00 Coffee break

15:00-15:30		
15:30-16:00		
16:00-16:30	General discussion – Session 4	<i>Moderator: Speakers</i>

FLASH Workshop 2024

The Role of Oxygen in FLASH Radiation Therapy

Wednesday June 19 2024 – FLASH 2024

Session 5 – ACCEPTED Abstracts

Chairperson: ????

09:00-09:30

09:30-10:00

10:00-10:30

General discussion – Session 3

Moderator: Speakers

10:30-11:00 Coffee break

Session 4 - ACCEPTED Abstracts

Chairperson: ????

11:00-11:30

11:30-12:00

12:00-12:30 Concluding remarks from the Organizers

End of the meeting