



Plenary Session	FLASH Teaching Lectures	Proton Beam and Heavy Ions Track
FLASH Modalities Track	FLASH Mechanisms Track	FLASH in Pre-Clinical and Clinical Settings Track

Session including audience voting

Programme remains subject to change. For the latest version refer to the mobile app or the [interactive programme](#).


Wednesday, 30 November 2022

Halls	Hall 113 - 114	Hall 133 - 134	Hall 131 - 132	Hall 129 - 130
08:30 - 09:20	Welcome Words & Plenary Opening Lecture: "HABEMUS FLASH?" Speaker: Alejandro Mazal, Spain			
09:20 - 09:25		Short Break		
09:25 - 09:55	FLASH Modalities Progress on the R&D Platform FLASHlab@PITZ Speaker: Frank Stephan, Germany			
09:55 - 10:00		Short Break		
10:00 - 10:30	FLASH Mechanisms Lipids peroxidation in liposomes after FLASH and CONV irradiation Speaker: Pascal Froidevaux, Switzerland			
10:30 - 11:00		Coffee Break & Networking Time, E-Poster Viewing in the Exhibition		
11:00 - 12:00	FLASH Modalities QA and dosimetry (Part I) (Oral presentations)	FLASH Mechanisms In Vivo (Part I) (Oral presentations)	FLASH in Pre-Clinical and Clinical Settings QA and Dosimetry (Oral presentations)	Proton Beam and Heavy Ions Proton (Oral presentations)
12:00 - 12:05		Short Break		
12:05 - 12:35	FLASH in Pre-Clinical and Clinical Settings Clinical Development of FLASH-RT with Protons Speaker: Damien Charles Weber, Switzerland			
12:35 - 14:00	Industry Sponsored Session (not CME/CPD accredited) (12:45 - 13:45)		Lunch Break, visit the Exhibition Area for E-Poster Viewing	
14:00 - 14:30	New Horizon PULSAR: Personalized Ultrafractionated Stereotactic Adaptive Radiotherapy. Idealized Approach for High Dose/High Dose Rate Radiotherapy. Speaker: Michael Story, USA			
14:30 - 14:35		Short Break		
14:35 - 15:05	FLASH Modalities Effects of Ultra-High Dose Rate High Energy X-Rays Radiotherapy With Different Fraction and Dose Rate on Acute and Chronic Lung Injury in Mice Speaker: Xiaobo Du, China			
15:05 - 15:10		Short Break		
15:10 - 16:10	E-Poster Presentations with Q&A Exhibition Area E-Poster Station 01: FLASH Modalities Track - Facilities, Radiation Protection and New Horizons E-Poster Station 02: FLASH Mechanisms Track - In Vitro and In Vivo E-Poster Station 03: FLASH in Pre-Clinical and Clinical Settings Track - QA and Dosimetry, and Clinical Trials			
16:10 - 16:30		Coffee Break		
16:30 - 17:00	FLASH Mechanisms Physico-Chemistry after FLASH-Irradiation and Oxygen Contribution Speaker: Ingo Sech, Germany			
17:00 - 17:05		Short Break		
17:05 - 17:35	FLASH in Pre-Clinical and Clinical Settings FLASH-RT with Short and Mid-Term Perspectives Speaker: James Metz, USA			
17:35 - 17:40		Short Break		
17:40 - 18:40	FLASH Modalities Facilities and Radiation Protection (Oral presentations)	FLASH Mechanisms In Vitro and Modelling (Oral presentations)	FLASH in Pre-Clinical and Clinical Settings TPS (Oral presentations)	FLASH Mechanisms In Vivo (Part II) (Oral presentations)
18:45 - 20:00	Christmas Market Gathering Exhibition Area Open to all conference participants For more details: https://frpt-conference.org/networking-events/			

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Thursday, 1 December 2022

Halls	Hall 113 - 114	Hall 133 - 134	Hall 131 - 132	Hall 129 - 130
7:00	FRPT FLASH Run in scenic Barcelona The event is open for all conference participants Pre-registration required For more details: https://frpt-conference.org/networking-events/			
08:30 - 09:00	FLASH Teaching Lecture Current Knowledge in FLASH Mechanisms from the Physics, Chemistry and Biology Aspects? Speaker: Brian W. Pogue, USA			
09:00 - 09:05	Short Break			
09:05 - 09:35	FLASH in Pre-Clinical and Clinical Settings Preclinical Studies with Proton FLASH in Mice and Canines. The Penn Experience Speaker: Constantinos Koumenis, USA			
09:35 - 09:40	Short Break			
09:40 - 10:10	FLASH Modalities Unique Proton and Electron Flash Experiment Platform for Preclinical Studies Speaker: Elke Beyreuther, Germany			
10:10 - 10:40	Coffee Break & Networking Time, E-Poster Viewing in the Exhibition			
10:40 - 11:40	FLASH Modalities QA and Dosimetry (Part II) (Oral presentations)	FLASH Mechanisms In Vitro and In Vivo (Oral presentations)	FLASH in Pre-Clinical and Clinical Settings Flash in the Clinic (Oral presentations)	Late-breaking Abstracts - Part I (Oral presentations)
11:40 - 11:45	Short Break			
11:45 - 12:15	FLASH in Pre-Clinical and Clinical Settings Validating FLASH Radiotherapy by Treating Dogs with Spontaneous Cancer Speaker: Betina Børresen, Denmark			
12:15 - 13:45	Lunch Break, visit the Exhibition Area for E-Poster Viewing	Industry Sponsored Session (not CME/CPD accredited) (12:30 - 13:30)	Industry Sponsored Session (not CME/CPD accredited) (12:30 - 13:30)	
13:45 - 14:15	FLASH in Pre-Clinical and Clinical Settings Large Animals Speaker: P. Jack Hoopes, USA			
14:15 - 14:20	Short Break			
14:20 - 14:50	FLASH Modalities Compact Accelerator Design for FLASH VHEE Therapy Speaker: Emma Snively, USA			
14:50 - 14:55	Short Break			
14:55 - 15:25	FLASH Mechanisms Immunological impact of FLASH-RT Speaker: Erben Bruno Rankin, USA			
15:25 - 15:45	Coffee Break & Networking Time, E-Poster Viewing in the Exhibition			
15:45 - 16:45	E-Poster Presentations Exhibition Area E-Poster Station 01: FLASH Modalities Track - QA and Dosimetry E-Poster Station 02: FLASH Mechanisms Track - Mathematical models and Physical Chemistry E-Poster Station 03: Proton Beam and Heavy Ions Track - Protons and Spatially Fractionated Radiotherapy			
16:45 - 16:50	Short Break			
17:00 - 17:45	Debate: Is Oxygen the Primary Determinant in the FLASH Effect? Chairs: Michele Kim (USA) & Pierre Montay-Gruel (Belgium) FOR: Marco Durante (Germany) Bethany Rothwell (USA) AGAINST: Jeannette Jansen (Germany) Charles Limoli (USA) 			
17:45 - 18:00	Short Break			
18:00 - 18:30	Plenary Session: History of Flash Speaker: Marc Mendonca, USA			
19:30 Onwards	FLASH Networking Event at ESPAI GASTRONOMIC, located within the historical ESTACIÓ DE FRANÇA Tickets upon purchase For more details: https://frpt-conference.org/networking-events/			

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Friday, 2 December 2022				
Halls	Hall 113 - 114	Hall 133 - 134	Hall 131 - 132	Hall 129 - 130
08:30 - 09:00	FLASH Teaching Lecture How to Investigate Normal Tissue Damages After Irradiation? Speaker: Rob Coppes, Netherlands			
09:00 - 09:05		Short Break		
09:05 - 09:35	Spatial Fractionation (SFRT) Spatially Fractionated Radiotherapy Approaches: Rational, Indications and Clinical Outcomes Speaker: Dariusz Talyaj, Austria			
09:35 - 09:40		Short Break		
09:40 - 10:10	FLASH Modalities FLASH Metrology Speaker: Anna Subiel, UK			
10:10 - 10:40		Coffee Break & Networking Time, E-Poster Viewing in the Exhibition		
10:40 - 11:40	FLASH Modalities New Horizons (Oral presentations)	FLASH Mechanisms In Vivo (Part III) (Oral presentations)	Spatial Fractionation Spatial Fractionation (SFRT) (Oral presentations)	Late-breaking Abstracts - Part II (Oral presentations)
11:40 - 11:45		Short Break		
11:45 - 12:15	FLASH Mechanisms FLASH-RT Benefit for the Treatment of Pediatric Brain Tumors Speaker: Paula Ballosteros Zabadiu, Switzerland			
12:15 - 13:45	Lunch Break, visit the Exhibition Area for E-Poster Viewing	Industry Sponsored Session (not CME/CPD accredited) (12:30 - 13:00)	Industry Sponsored Session (not CME/CPD accredited) (12:30 - 13:00)	
13:45 - 14:15	FLASH in Pre-Clinical and Clinical Settings Pre-clinical Proton Flash Experiments in a Mouse Model and Possible Implications for Clinical Application Speaker: Per Rugaard Poulsen, Denmark			
14:15 - 14:20		Short Break		
14:20 - 15:20		E-Poster Presentations Exhibition Area E-Poster Station 01: Proton Beam and Heavy Ions Track - New Horizons E-Poster Station 02: FLASH in Pre-Clinical and Clinical Settings Track - TPS and Proton E-Poster Station 03: Late Breaking Abstracts		
15:20 - 15:40		Coffee Break & Networking Time, E-Poster Viewing in the Exhibition Area		
15:40 - 16:10	Proton Beam and Heavy Ions High Dose Rate p, 4He and 12C Ion Therapy: Biological Investigations at Heidelberg Ion-Beam Therapy Center (HIT) Speaker: Ivana Dokić, Germany			
16:10 - 16:15		Short Break		
16:15 - 16:45	FLASH in Pre-Clinical and Clinical Settings FLASH-RT in Humans: Clinical Updates from FAST-01, First In-Human Proton FLASH Trial Speaker: Emily C. Daugherty, USA			
16:45 - 16:50		Short Break		
16:50 - 17:35	Balloon Debate What Has the Best Long-Term Potential for Flash for Clinical Application? Chairs: Marc Mendonca (USA) & Elke Beyreuther (Germany) Photons: Billy Loo (USA) Protons: John Perentesis (USA) VHEE & Electrons: Jean Bourhis (Switzerland)			
17:35 - 17:40		Short Break		
17:40 - 18:00	Closing Ceremony Announcing the Best Oral Awards & Best E-Poster Awards			