

Plenary Session	Proton Beam and Heavy Ions Track	Spatial Fractionation (SFRT)
FLASH Modalities Track	FLASH Mechanisms Track	FLASH in Pre-Clinical and Clinical Settings Track
FLASH Teaching Lectures	Proton Beam and Heavy Ions & Spatial Fractionation (SFRT) Track	Industry Sponsored Session


Session including audience voting 

Conference Time Zone: Toronto, Ontario - Eastern Standard Time (EDT/GMT-4)

Tuesday, 5 December 2023			
Halls	Metropolitan Ballroom West	Queen Quai	Bay
09:00 - 09:50	<b>Welcome Words &amp; Plenary Opening Lecture:</b> "What Is Expected in the Field by 2030?" Albert Koong (USA)		
09:50 - 10:00	Short Break		
10:00 - 10:30	<b>FLASH Modalities:</b> Protons Anthony Mascia (USA)		
10:30 - 10:50	Coffee Break & Networking Time		
10:50 - 11:20	<b>FLASH Mechanisms</b> An Alternative Role of Oxygen in the FLASH Effect Mirna El Khatib (USA)		
11:20 - 11:30	Short Break		
11:30 - 13:00	<b>ORAL PRESENTATION SESSION 01:</b> Facility Overviews & Radiation Protection (FLASH Modalities I)	<b>ORAL PRESENTATION SESSION 02:</b> In Vivo Pre-Clinical Studies (FLASH Mechanisms I)	<b>ORAL PRESENTATION SESSION 03:</b> Clinical Trials, TPS and Clinical Delivery (FLASH in Pre-Clinical and Clinical Settings I)
13:00 - 14:15	Lunch Break		
14:15 - 14:45	<b>Proton Beams and Heavy Ions:</b> Carbon Ions Walter Tinganelli (Germany)		
14:45 - 14:55	Short Break		
14:55 - 15:25	<b>FLASH Modalities</b> VHEE/Photon I Magdalena Bazalova-Carter (Canada)		
15:25 - 15:40	Coffee Break in the Exhibition		
15:40 - 16:40	E-Poster Discussion #1-3 Exhibition Area		
	E-Poster Station 01: FLASH Modalities I		
	E-Poster Station 02: FLASH Mechanisms I E-Poster Station 03: FLASH in Pre-Clinical and Clinical Settings		
15:40 - 16:45		<b>ORAL PRESENTATION SESSION 04:</b> Proton Beam and Heavy Ions & Spatial Fractionation (SFRT)	
16:40-17:10	Networking Time, E-Poster Viewing in the Exhibition Area		
17:10 - 17:40	<b>FLASH Mechanisms</b> Ionizing Radiation-Induced Acoustics in FLASH and CONV Radiotherapy? Julie Lascaud (Germany)		
17:40 - 17:50	Short Break		
17:50 - 18:20	<b>FLASH in Pre-Clinical and Clinical Settings</b> Proton FLASH in Vivo – What Matters Brita Singers Sorensen (Denmark)		
18:20 - 18:30	Short Break		
18:30 - 20:00	<b>ORAL PRESENTATION SESSION 05:</b> Highest Scored Abstracts (FLASH Modalities II)	<b>ORAL PRESENTATION SESSION 06:</b> Highest Scored Abstracts (FLASH Mechanisms II)	<b>ORAL PRESENTATION SESSION 07:</b> QA and Dosimetry for the Clinic (FLASH in Pre-Clinical and Clinical Settings II)
20:00	<b>Jingle Bells Welcome Reception</b> Exhibition Area   Open to all conference participants		


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**Wednesday, 6 December 2023**

Halls	Metropolitan Ballroom West	Queen Quai	Bay
07:00 - 08:00	FRPT FLASH Yoga Class		
08:30 - 09:00	<b>Spatial Fractionation (SFRT):</b> Proton Mini-beam Radiobiology and Immune Response Lorea Iturri (France)		
09:00 - 09:10	Short Break		
09:10 - 09:40	<b>FLASH in Pre-Clinical and Clinical Settings</b> Clinical Perspectives Alexander Lin (USA)		
09:40 - 10:00	Coffee Break & Networking Time		
10:00 - 10:30	<b>FLASH Mechanisms</b> Model - Oxygen Role Jennifer Zou (USA)		
10:30 - 10:40	Short Break		
10:40 - 12:10	<b>ORAL PRESENTATION SESSION 08:</b> Quality Assurance and Real Time Dosimetry (FLASH Modalities III)	<b>ORAL PRESENTATION SESSION 09:</b> In Vivo & In Vitro Studies (FLASH Mechanisms III)	<b>ORAL PRESENTATION SESSION 10:</b> Mathematical Modelling & Physico-Chemistry (FLASH Mechanisms IV)
12:10 - 13:25	Lunch Break	12:20 - 12:50 Industry Sponsored Session	Lunch Break
13:25 - 14:05	<b>Proton Beams and Heavy Ions:</b> Toward Clinical Trial. From Preclinical Studies to Domestic Animals Trials and Human Patients Serena Psoroulas (Switzerland)		
14:05 - 14:15	Short Break		
14:15 - 14:45	<b>FLASH Teaching Lecture</b> Hypoxia and Radiation Response Marianne Koritzinsky (Canada)		
14:45 - 15:00	Networking Time, E-Poster Viewing in the Exhibition Area		
15:00 - 16:00	<b>E-Poster Discussion #4-6</b> Exhibition Area		
	E-Poster Station 01: FLASH Modalities II		
	E-Poster Station 02: FLASH Mechanisms II		
E-Poster Station 03: New Technologies & Mechanism			
16:00-16:30	Coffee Break in the Exhibition		
16:30 - 17:00	<b>FLASH Modalities</b> VHEE/Photon II Vincenzo Patera (Italy)		
17:00 - 17:10	Short Break		
17:10 - 17:55	<b>Debate Session:</b> Are Circulating Immune Cells the Critical Factors for the FLASH Effect?  For Ricky Sharma (USA)  Against Paula Ballesteros-Zebadúa (Mexico)  		
17:55 - 18:05	Short Break		
18:05 - 18:35	<b>Spatial Fractionation (SFRT):</b> Cracking the Code: Microbeam RT at Ultra-High Dose Rates; the Ultimate Radiobiological Puzzle Cristian Fernandez-Palomo (Switzerland)		
19:30 - 23:00	FLASH Networking Event Tickets may be purchased		

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**Thursday, 7 December 2023**

Halls	Metropolitan Ballroom West	Queen Quai	Bay
08:30 - 09:00	<b>FLASH Mechanisms</b> Multiscale Modeling of Ultrahigh Dose Rate Response Emanuelle Scifoni (Italy)		
09:00 - 09:10	Short Break		
09:10 - 09:40	<b>Proton Beams and Heavy Ions: Protons</b> Michele Kim (USA)		
09:40 - 10:00	Coffee Break & Networking Time, E-Poster Viewing in the Exhibition		
10:00 - 10:30	<b>Spatial Fractionation (SFRT):</b> Spatial Fractionation of The Dose: Getting New Insights with Vibrational Microspectroscopy Imma Martinez-Rovira (Spain)		
10:30 - 10:40	Short Break		
10:40 - 12:10	<b>ORAL PRESENTATION SESSION 11:</b> Quality Assurance and Real Time Dosimetry & New Horizons in FLASH (FLASH Modalities IV)	<b>ORAL PRESENTATION SESSION 12:</b> Late-Breaking Abstracts I	<b>ORAL PRESENTATION SESSION 13:</b> Late-Breaking Abstracts II
12:10 - 12:20	Short Break		
12:20 - 12:50	<b>FLASH Teaching Lecture</b> The AI Era in Radiobiology David Jaffray (Canada)		
12:50 - 14:05	Lunch Break		
14:05 - 14:35	<b>FLASH Modalities</b> Exploring FLASH and Spatially Fractionated Radiation Therapy (SFRT) with a X-Ray Scanning System John Wong (USA)		
14:35 - 14:45	Short Break		
14:45 - 15:15	<b>FLASH in Pre-Clinical and Clinical Settings</b> Preclinical in Vivo- Tg Mouse David Kirsch (Canada)		
15:20 - 16:20	<b>E-Poster Discussion #7</b> Exhibition Area		
	<b>E-Poster Station 01: Late Breaking</b>		
16:20-16:35	Coffee Break in the Exhibition		
16:35-17:05	<b>FLASH in Pre-Clinical and Clinical Settings</b> Preclinical Studies to Inform the Design of Early Phase Clinical Trials of UHDR in Patients Lesley Jarvis (USA)		
17:05-17:15	Short Break		
17:15-18:15	<b>Balloon Debate:</b> <b>The Biggest Advance in Radiotherapy in the Next 10 Years Will Come From...?</b>  FLASH Constantinos Koumenis (USA)  Spatially Fractionated RT Christian Fernandez (Switzerland)  Combination Treatments Andrew McPartlin (Canada)  Artificial Intelligence (AI) David Jaffray (USA) 		
18:15-18:30	Short Break		
18:30 - 19:00	<b>Closing Ceremony</b> Announcing the Best Oral Awards & Best E-Poster Awards		