

Provisional program

Note that the exact titles and time slots of the presentations may be subject to change.

Thursday, 16 March 2023

8h30 - 8h45	Registration Coffee and croissants
8h45 - 9h15	Welcome address - Y. Prezado
SESSION 1: Radiobiology Chair: R. Griffin	
9h15 - 10h45	Invited presentations
9h15 - 9h35	Overview of what we know and don't know - R. Griffin (University of Arkansas for Medical Sciences, USA)
9h35 - 9h55	Review of radiobiological data from Institut Curie on proton and heavy ion MBRT - A. Bertho & L. Iturri (Institut Curie, France)
9h55 - 10h15	Review of radiobiological data from SNAKE - T. Schmid (Technical University of Munich, Germany)
10h15 - 10h35	Radiobiological models for particle minibeam - J. Seco (DKFZ Heidelberg, Germany)
10h35 - 10h45	Q&A
10h45 - 11h15	Coffee break
11h15 - 12h30	Oral presentations from selected abstracts
11h15 - 11h27	Application of equivalent uniform dose (EUD) for the prediction of normal and tumor cell survival after proton minibeam irradiation - J. Stolz et al. (Bundeswehr University Munich, Germany)
11h27 - 11h39	The effect of Minibeam and Microbeam Radiation Therapy on tumor growth delay in an in vivo mouse model - N. Subramanian et al. (Technical University of Munich, Germany)
11h39 - 11h51	Biological Models for a Preclinical Proton Minibeam Radiotherapy Facility - J. Neubauer et al. (Technical University of Munich, Germany)
11h51 - 12h03	New insights into proton minibeam radiation therapy in healthy and tumoral cells using synchrotron-based Fourier transform infrared microspectroscopy - R. Gonzalez-Vegas et al. (Autonomous University of Barcelona, Spain)
12h03 - 12h15	Impact of spatially fractionated minibeam on the production of reactive oxygen species: a Monte Carlo study using TOPAS-nBio - T. Masilela et al. (Institut Curie, France)
12h30 - 13h30	Lunch break and poster session

Thursday, 16 March 2023
continuation

SESSION 2: Technological aspects

Chair: J. Seco

13h30 - 14h15 Invited presentations

- 13h30 - 13h45 PMBT implementations at clinical centers
- *T. Schneider (Institut Curie, France)*
- 13h45 - 14h00 PMBT implementations at research centers and new perspectives
- *G. Dollinger (Bundeswehr University Munich, Germany)*
- 14h00 - 14h15 Q&A

14h15 - 15h00 Oral presentations from selected abstracts

- 14h15 - 14h27 Preclinical proton minibeam radiotherapy facility for small animal irradiation - *A. Rousseti et al. (Bundeswehr University Munich, Germany)*
- 14h27 - 14h39 Characterization of a novel preclinical proton minibeam set-up
- *M. Ahmed et al. (Helmholtz Center Munich, Germany)*
- 14h39 - 14h51 LhARA end station dosimetry - An Evaluation of Preclinical Studies of Minibeam Radiotherapy for design of the LhARA end-station
- *J. McGarrigle et al. (Imperial College London, UK)*

External vision and multidisciplinary discussion

15h00 - 16h00 External vision

Moderators: *J. Seco & Y. Prezado*

Invited experts: *M. Durante (GSI, Germany), M.-C. Vozenin (CHUV, Switzerland), R. Griffin (University of Arkansas for Medical Sciences, USA), G. Arduini (CERN, Switzerland), A. Lombardi (CERN, Switzerland) & G. Datzmann (Datzmann interact and innovate, Germany)*

16h00 - 16h30 Coffee break

16h30 - 17h30 External vision

Knowledge gaps
How to move forward?

20h00 - 22h30 Gala dinner (location to be announced)

Friday, 17 March 2023

8h30 - 9h00 Coffee and croissants

SESSION 3: Physics and dosimetry

Chair: J. Eley

9h00 - 9h45 Invited presentations

- 9h00 - 9h15 Experimental dosimetry protocols for PMBT
- *I. Martínez-Rovira (Autonomous University of Barcelona, Spain)*
- 9h15 - 9h30 PMBT dose calculation - *L. de Marzi (Institut Curie, France)*
- 9h30 - 9h45 Q&A

9h45 - 10h45 Oral presentations from selected abstracts

- 9h45 - 9h57 CMOS Detector Robustness in pMBRT Dosimetry
- *S. Flynn et al. (National Physical Laboratory, University of Birmingham, UK)*
- 9h57 - 10h09 Dosimetry and in vitro studies using a novel and versatile mini-beam collimator - *C. Stengl et al. (DKFZ Heidelberg, Germany)*
- 10h09 - 10h21 Biological optimization of peak-to-valley dose ratio for pMBRT
- *H. Gao et al. (University of Kansas Medical Center, USA)*
- 10h21 - 10h33 Proton minibeam therapy is optimised by heterogeneous tumor doses and paves the way to proton FLASH therapy
- *J. Reindl et al. (Bundeswehr University Munich, Germany)*

10h45 - 11h15 Coffee break

SESSION 4: Medical aspects

Chair: E. Jouglar

11h15 - 11h45 Invited presentations

- 11h15 - 11h30 TITLE TO BE ANNOUNCED
- *S. Combs (Technical University of Munich, Germany)*
- 11h30 - 11h45 Q&A

11h45 - 12h15 Oral presentations from selected abstracts

- 11h45 - 11h57 LIGHT proton linac minibeam FLASH plans, compared to photon SRS, and to FLASH and nominal LIGHT proton plans, for treatment of brain metastases
- *A. Kolano et al. (ADAM SA, Switzerland)*
- 11h57 - 12h09 The dosimetric advantages of treating left partial breast indications with linac proton beams and minibeam versus cyclotron proton beams
- *K. O'Shea et al. (ADAM SA, Switzerland)*

12h15 - 12h30 Presentation of *INanoTheRad* - *S. Lacombe (University Paris-Saclay, France)*

12h30 - 13h30 Lunch break and poster session

Friday, 17 March 2023
continuation

Clinical perspectives and multidisciplinary discussion

13h30 - 14h30 **Clinical perspectives**

Moderators: *E. Jouglar, R. Griffin, J. Eley & T. Schmid*

Invited experts: *Y. Kirova (Institut Curie, France) & S. Tubin (MedAustron, Austria)*

14h30 - 15h30 **Interactive multidisciplinary discussion**

Knowledge and technology gaps
How to move towards clinical trials?

15h30 - 16h00 **Coffee break**

16h00 - 16h30 **Workshop conclusion - *J. Reindl***
