

**Twinning to Skyrocket Scientific Excellence Towards Individual
Radiosensitivity Prediction by Raising the Bar in Knowledge
Transfer, Networking, and Technological Innovation in
Radiobiology**

**RadExIORSBoost Project Workshop and
Training
PROGRAMME**

**“Cutting-edge approaches in radiobiology
and radiotherapy”**

Belgrade 2-4 December 2024

Venue: Belgrade Art Hotel

2 December 2024

- 09:00 – 09:15** **Opening ceremony**
- 09:15 – 11:00** **Workshop: Session I Novel and cutting-edge approaches in radiotherapy**
Moderator: Marina Nikitović
- 09:15 – 09:45 Constatin Dreher (online): Advanced radiation concepts for prostate cancer: from 2-D to 5-D. *Medical Faculty Mannheim, Heidelberg University, Germany*
- 09:45 – 10:15 Angelica Facchetti: Radiobiology of hadron therapy. *CNAO National Center for Oncological Hadrontherapy, Italy*
- 10:15 – 10:45 Primož Strojjan (online): Proton radiotherapy experience at Institute of Oncology Ljubljana, Slovenia. *Institute of Oncology Ljubljana, Slovenia*
- 10:45 – 11:00 Discussion
- 11:00 – 11:30** **Coffee break and networking**
- 11:30 – 12:30** **Training: Round table with experts – novel radiotherapy techniques, overview, advances, and future perspectives for raising the bar in radiation oncology (Frank A. Giordano (online), *Medical Faculty Mannheim, Heidelberg University, Germany*, Primož Strojjan (online), *Institute of Oncology Ljubljana, Slovenia*, Angelica Facchetti, *CNAO, Italy*, Marina Nikitović, *Institute for Oncology and Radiology of Serbia*).**
- 12:30 – 13:30** **Lunch**
- 13:30 – 15:00** **Workshop: Session II Predictive models for radiation-induced adverse effects**
Moderators: Marina Nikitović, Tatjana Stanojković
- 13:30 – 14:00 Tim Rattay: Prediction models for adverse treatment effects – from development to clinical implementation. *University of Leicester, United Kingdom*
- 14:00 - 14:30 Adam Webb: Impact of circadian rhythm genotypes and treatment time on side-effects. *University of Leicester, United Kingdom*
- 14:30 – 15:00 Round table and discussion with experts
- 15:00 – 15:30** **Concluding remarks and coffee break**



3 December 2024

- 09:00 – 10:20** **Workshop: Session III RILA assay for the prediction of individual radiosensitivity – perspectives**
Moderators: Ivana Matić, Nina Petrović
- 09:00 – 09:30 Marlon Veldwijk: The road to personalized radiotherapy: Predictive assays to determine the radiation sensitivity of patients. *Medical Faculty Mannheim, Heidelberg University, Germany*
- 09:30 – 10:00 Christopher Talbot: Implementing the RILA assay in a multi-centre study – lessons from the REQUITE project. *University of Leicester, United Kingdom*
- 10:00 – 10:20 Round table and discussion with experts
- 10:20 – 10:30** **Break**
- 10:30 – 11:30** **Training: Marlon Veldwijk: Analysis strategy and hands-on analysis of RILA data. Medical Faculty Mannheim, Heidelberg University, Germany**
- 11:30 – 12:00** **Coffee break**
- 12:00 – 13:20** **Workshop: Session IV Single cell alkaline comet assay and DNA damage repair for the assessment of DNA damage response**
Moderator: Tatjana Stanojković
- 12:00 – 13:00 Siegfried Knasmüller: An introduction to “Cometology”. *Medical University of Vienna, Austria*
- 13:00 – 13:20 Round table and discussion with experts
- 13:20 – 13:30** **Break**
- 13:30 – 14:30 **Training: Miroslav Misik: Comet assay techniques: methodology and troubleshooting. Medical University of Vienna, Austria**
- 14:30 – 15:30** **Lunch**
- 15:30 – 17:10** **Workshop: Session V Radiobiology research at Institute of Oncology Ljubljana**
Moderator: Maja Čemažar
- 15:30 – 15:50 Živa Pišljarič: Development of mouse HPV-positive oral cell carcinoma as a model for radiation studies. *Institute of Oncology Ljubljana, Slovenia*
- 15:50 – 16:10 Tanja Jesenko: Cytosolic DNA sensors activation following irradiation. *Institute of Oncology Ljubljana, Slovenia*
- 16:10 – 16:30 Tim Božič: Chemokine-based gene therapy in combination with irradiation. *Institute of Oncology Ljubljana, Slovenia*
- 16:30 – 16:50 Gregor Serša: Development of a method for partial tumor irradiation of mouse models. *Institute of Oncology Ljubljana, Slovenia*
- 16:50 – 17:10 Round table and discussion with experts
- 17:10 – 17:30** **Concluding remarks and coffee break**



4 December 2024

- 09:00 – 10:20** **Workshop: Session VI Radiogenomics and radiotranscriptomics**
Moderators: Nina Petrović, Ivana Matic
- 09:00 – 09:30 Ahmad Šami: Radiogenomics in normal tissue reactions: Current perspectives and an alternative view. *Medical Faculty Mannheim, Heidelberg University, Germany*
- 09:30 – 10:00 Christopher Talbot: Radiogenomics Consortium – ongoing and future projects. *University of Leicester, United Kingdom.*
- 10:00 – 10:20 Round table and discussion with experts
- 10:20 – 10:50** **Coffee break and networking**
- 10:50 – 12:30** **Training: Self and career management – perspectives – Meet the experts and principal investigators:**
Marlon Veldwijk, Christopher Talbot, Siegfried Knasmüller, Maja Čemažar
- 12:30 – 13:00** **Conclusions and closing remarks**
- 13:00 – 14:00** **RadExIORSBoost General assembly**
- 14:00 – 15:00** **Lunch**