



1st Serbian International Congress “From Basic Radiobiology towards Radiogenomics”



Program

Belgrade on 21–22 September 2026.

The Institute for Oncology and Radiology of Serbia (IORS), in
cooperation with the European Academy of Sciences and Arts (EASA)
Belgrade Art Hotel (Radisson)

Day 1

08:00 – 08:15	Opening Ceremony Ass. Prof. Milan Žegarac, Director of the Institute for Oncology and Radiology of Serbia (or representative) Minister of Science, Technological Development, and Innovation of the Republic of Serbia (or representative) Prof. Dušan Šuput, Dean Class II European Academy of Sciences and Arts, Salzburg, Austria, and Professor Faculty of Medicine, UL, Ljubljana, Slovenia Opening welcoming speech: EASA and Challenges of the future of medicine
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Session 1: Radiogenomics – Clinical Perspectives

Chairs: Alexandros Georgakilas and Tatjana Stanojković

08:15 – 08:45	Prof. dr Anca-Ligia Grosu, FACR Director Department of Radiation Oncology, University of Freiburg, Germany Title: Peripheral immune response after WBRT with and without hippocampal avoidance
08:45 – 09:15	Prof. dr Catharine West, Professor of Radiation Biology, University of Manchester Title: Omic approaches for discovering biomarkers of radiotherapy response
09:15 – 09:45	Dr Ana Vega, PhD, Hospital Clínico Santiago de Compostela 15706, Santiago de Compostela, A Coruña, Spain Title: Clinical Impact of Genetic Variants on Radiotherapy Toxicity and Treatment Response
09:45 – 10:25	Discussion
10:25 – 10:40	Coffee break

Session 2: Radiobiology - Effects of Radiation on Normal Tissue

Chairs: Marina Nikitović and Ester Orlandi

10:40 – 11:10	Prof. dr Barbara Jereczek-Fossa, Chair of Dept. of Radiation Oncology, IEO, Full Professor of Radiation Oncology, University of Milan, Italy, President Elect of the European Society for Radiotherapy and Oncology (ESTRO) Title: The potential of radiation oncology: from biological insights to technological innovation-ESTRO perspective
11:10 – 11:40	Prof. dr Maja Čemažar, Head of the Research and Education Division at the Ljubljana Institute of Oncology and Head of the Department of Experimental Oncology; Full professor at the Faculty of Health Sciences, University of Primorska Title: Electroporation-Based Therapies Combined with Radiotherapy
11:40 – 12:10	Prof. dr. Rob P Coppes, Department of Biomedical Sciences, FB30 Department of Radiation Oncology, University Medical Center Groningen, University of Groningen, Netherlands Title: Difference in inflammatory and regenerative responses in normal tissue-derived organoids
12:10 – 12:40	Prof. dr Igor Belyaev, Head of Department of Radiobiology, at Biomedical Research Center Slovak Academy of Sciences, Bratislava Title: Integrated Cytogenetic and Molecular Markers of Radiation-Induced Genetic Instability: From Biodosimetry to Radiation Risk Assessment
12:40 – 13:10	Prof. dr Alexandros Georgakilas, PhD, Professor of Radiation Biophysics, School of Applied Mathematical and Physical Sciences National Technical University of Athens (NTUA), Greece Title: From DNA Damage Complexity to Radiogenomic Signatures: Mechanistic Determinants of Cellular Fate and Therapy Response
13:10 – 13:40	Discussion
13:40 – 14:30	Lunch
Session 3: Machine Learning in Radiobiology and Radiogenomics Chairs: Igor Belyaev and Niklas Wahl	
14:30 – 15:00	Prof. dr Habib Zaidi, Head of PET Instrumentation & Neuroimaging Laboratory (PINLab) Geneva University Hospital Title: The promise of artificial intelligence in computational nuclear oncology and theranostic digital twins
15:00 – 15:30	Dr. Tiziana Rancati, PhD, Senior Researcher, CMON Lab Data Science Unit Fondazione IRCCS Istituto Nazionale dei Tumori, Milan, Italy Title: From population constraints to personalized risk: a bio-physical framework for NTCP modelling and iso-side-effect planning
15:30 – 16:10	Discussion

16:10 – 16:20	Industry-Supported Lecture
16:20 – 16:30	Industry-Supported Lecture
16:30 – 17:30	Visit to the Clinic for Radiation Oncology - IORS

Day 2	
Session 4: Research in Serbia - Experiences and ongoing collaborative research	
Chairs: Tatjana Stanojković and Marina Nikitović	
08:00 – 08:30	Asst. Prof. Aleksandar Tomašević, MD, PhD, Faculty of Medicine, University of Belgrade, Head of the Clinic for Radiotherapy, Institute for Oncology and Radiology of Serbia Title: The Institute for Oncology and Radiology of Serbia: Radiotherapy Clinic Overview and Clinical Experience
08:30 – 09:00	Prof. dr Marina Nikitović, MD, PhD, Full Professor of Oncology and Radiology, Chairman of the Expert Committee for Oncology, Republic of Serbia, Deputy Director for Research and Education, Institute for Oncology and Radiology of Serbia Title: Current Aspects of Radiobiology in Institute for Oncology and Radiology of Serbia - road to RadExIORSBoost
09:00 – 09:30	Asst. Prof. Aleksandar Stepanović, MD, PhD, Research Associate, Faculty of Medicine, University of Belgrade, Institute for Oncology and Radiology of Serbia Title: Decoding Radiotherapy Response in Brain Tumors: The Role of MicroRNAs
09:30 – 10:00	Dr. sc. med. Katarina Kopčalić, MD, PhD, Research Associate, Institute for Oncology and Radiology of Serbia Title: Biomarkers as a predictor of radiotoxicity in prostate cancer patients
10:00 – 10:30	Asst. Prof. Mladen Marinković, MD, PhD, Research Associate, Faculty of Medicine, University of Belgrade, Institute for Oncology and Radiology of Serbia Title: Radiobiology of rectal cancer - insights from the STEPUP IORS Horizon Europe project
10:30 – 11:00	Discussion
11:00 – 11:15	Coffee break

Session 5: Proton Therapy

Chairs: Aleksandar Stepanović and Igor Beljajev

11:15 – 11:45	Dr. Ester Orlandi, Head of Clinical Department of the CNAO Foundation (National Center of Oncological Hadrontherapy) of Pavia, Italy Title: Advancing precision in particle therapy: from biomarker-driven trials to enhanced quality of life
11:45 – 12:15	Dr. rer. Nat. Niklas Wahl, PhD, Ruprecht-Karls-Universität Heidelberg, Germany, conducted in the Department of Medical Physics in Radiation Oncology, German Cancer Research Center – DKFZ Title: Towards the Direct Integration of Multimodal Outcome Prediction Models
12:15 – 12:45	Prof. dr Cai Grau, Head of Research, Heading the interdisciplinary radiotherapy research at the Danish Center for Particle Therapy (DCPT) at Aarhus University Hospital in Aarhus, Denmark Title: Proton Therapy towards 2030: Progress, Challenges, and Future Directions
12:45 – 13:25	Discussion
13:25 – 13:35	Industry-Supported Lecture
13:35 – 13:45	Industry-Supported Lecture
13:45 – 14:00	Closing remarks
14:00	Lunch