

From radiobiological challenges to imaging biomarkers in personalised radiotherapy

Wednesday, September 9

Time: 12 noon -1:00 GMT

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Register here: <https://www.iomp.org/iomp-school-webinar-7>

Organizer: Prof. Madan Rehani, President, IOMP

Moderator: Prof. Eva Bezak, Secretary General, IOMP



Iuliana Toma-Dasu: Biomarkers for hypoxia and proliferation: from imaging to outcome prediction

Iuliana Toma-Dasu is Professor in Medical Radiation Physics

and the Head of the Medical Radiation Physics division at the Department of Physics, Stockholm University, affiliated to the Department of Oncology and Pathology at Karolinska Institutet in Stockholm, Sweden. Iuliana Toma-Dasu studied Medical Physics at Umeå University, Sweden, where she also became a certified medical physicist and received a Ph.D. degree. In parallel with her involvement in the

educational program for the medical physicists run at Stockholm University, her main research interests focus on biologically optimised adaptive radiation therapy, including particle therapy, modelling the tumour microenvironment and the risks from radiotherapy.



Loredana G. Marcu: Biomarkers for cancer stem cells: from imaging to outcome prediction

Loredana G. Marcu is Professor of Medical Physics at the University of Oradea, Romania and Adjunct Professor at School of Health Sciences, University of South Australia. She is a radiotherapy medical physicist, being educated and trained in Adelaide, South Australia. Her current research interests cover *in silico* modelling of tumour growth and response to treatment, radiobiology, targeted therapies, and the risk of second cancer after radiotherapy. She has published 15 books/book chapters on physics, radiotherapy and radiobiology and over 100 scientific papers. Loredana Marcu is involved in several professional activities within EFOMP and IUPESM.