



Dear colleagues!

I am pleased to invite you to the second edition of the XChange symposium, a platform for the presentation and discussion of scientific and clinical developments in radiation oncology.

The first XChange symposium was held in 2019 to mark the 10th anniversary of the redesign of the LMU Department of Radiation Oncology and resulted in a review paper on „the status and future of modern radiation oncology - from technology to biology“.

This year, in 2023, we celebrate another anniversary: The MR-Linac at the LMU Department of Radiation Oncology has been in clinical operation for 3 years and we now have treated over 600 patients with this machine. We think this is an appropriate moment to meet again for an XChange symposium, this time to reflect on the achievements of MR-guided radiotherapy, and to discover and discuss future developments in this fascinating field which can be considered the leading edge of photon-based radiotherapy.

National and international experts in radiation oncology and physics will update us on the latest developments, and there will be ample room for discussion. Thanks to a generous sponsorship we are able to offer this symposium free of charge.

I am looking forward to meeting you in Munich, with kind regards,

Prof. Dr. med. Claus Belka

Program

- 09:00** Reception (catering in front of lecture hall)
- 09:30** Welcome address
C. Belka
- 09:40** Welcome address
M. Lerch
- 09:45** Keynote
V. Valentini, Rome
- 10:10** 3 years MR-guided radiotherapy at LMU Munich
S. Corradini, Munich
- 10:30** Coffee break
- 11:00** Physics Research at the MR-Linac in Munich
G. Landry, Munich
- 11:20** MR Linacs and the holy grail of radiomics
L. Boldrini, Rome
- 11:40** Functional imaging for response-adaptive MR-guided radiotherapy
D. Thorwarth, Tübingen
- 12:00** Lunch break (catering in front of lecture hall)
- 12:45** Dose accumulation
L. Wilke, Zürich
- 13:05** Artificial Intelligence and Imaging
N. van den Berg, Utrecht
- 13:25** Adaptive pulmonary treatments
J. Hörner-Rieber, Heidelberg
- 13:45** Coffee break
- 14:15** MRI-guided adaptive radiotherapy for prostate cancer
A. Tree, London
- 14:35** Outlook – Physics Perspective
K. Parodi, Munich
- 14:55** Outlook – Clinical Perspective
F. Alongi, Verona
- 15:15** End of Symposium, Guided tour to the MR-Linac for interested participants
- 19:00** Dinner, Gasthaus zum Erdinger Weißbräu, Heiglhofstraße 13, München

Speakers

- **Prof. Dr. Filippo Alongi**
Head, Advanced Oncological Radiotherapy, IRCCS S. Cuore Don Calabria, Negrar-Verona
- **Prof. Dr. Claus Belka**
Head, Dept. of Radiation Oncology, LMU University Hospital, Munich
- **Prof. Dr. Nico van den Berg**
Head of Computational Imaging group for MRI diagnostics and therapy, UMC Utrecht
- **Prof. Dr. Luca Boldrini**
Medical Director, COU Cancer Radiation Therapy, Agostino Gemelli University Hospital Foundation IRCCS, Rome
- **PD Dr. Stefanie Corradini**
Lead Consultant, Dept. of Radiation Oncology, LMU University Hospital, Munich
- **Prof. Dr. Guillaume Landry**
Head of Physics Research, Dept. of Radiation Oncology, LMU University Hospital, Munich
- **Prof. Dr. Markus Lerch**
Physician-in-Chief and CEO, LMU University Hospital, Munich
- **Prof. Dr. Juliane Hörner-Rieber**
Managing Consultant and Team Lead MRgRT, Dept. of Radiation Oncology, University Hospital Heidelberg
- **Prof. Dr. Katia Parodi**
Head, Dept. of Medical Physics, LMU University, Munich
- **Prof. Dr. Daniela Thorwarth**
Head of Section for Biomedical Physics, Dept. of Radiation Oncology, University of Tübingen
- **Dr. Alison Tree**
Consultant Oncologist, The Royal Marsden Hospital and Honorary Faculty, ICR
- **Prof. Dr. Vincenzo Valentini**
Director, Dept. of Diagnostic Imaging, Oncological Radiotherapy and Hematology and COU Oncological radiotherapy, Agostino Gemelli University Hospital Foundation IRCCS, Rome
- **Dr. Lotte Wilke**
Vice Head of Medical Physics, Dept. of Radiation Oncology, University Hospital Zürich