



Bridging Radiotherapy & Immunotherapy

September 30th - October 1st 2021

This international 2-day meeting in Nijmegen, The Netherlands on September 30th and October 1st 2021 will focus on [the combination of radiotherapy and immunotherapy](#) and offers an attractive scientific program with excellent (inter) national speakers.

The majority of cancer patients will undergo radiotherapy during the course of their disease. Combining this local treatment with immunotherapy offers an exciting opportunity to enhance potential systemic effects, which could lead to more successful and less toxic outcomes for many cancer patients.

Additionally, the [recent clinical introduction of MR-guided radiotherapy](#) at the Radboudumc and elsewhere will allow for delivering fractions of radiation that are more likely to induce an anti-tumor response than is currently feasible. In depth -omics analyses, and further integration of (functional) imaging and biomarkers will help to establish what combinations and conditions may be most effective.

Day 1 Thursday 30 September 2021

9:00 - 9:30 Registration and coffee
9:30 - 9:40 Opening: *Marcel Verheij (Radboudumc, Nijmegen, NL)*

Session 1: setting the scene

9:40 - 10:00 The potential of MR-guided (MR-linac) radiotherapy
Linda Kerkmeijer (Radboudumc, Nijmegen, NL)
10:00 - 10:35 The importance of the immune contexture in the era of cancer immunotherapies
Jerome Galon (INSERM, Paris, FR)
10:35 - 11:10 Key parameters in optimizing anti-tumor immunity; how radiotherapy can help
Jannie Borst (LUMC, Leiden, NL)

11:10 - 11:30 Coffee Break

Session 2: DNA repair and recognition

11:30 - 12:05 Consequences of hypoxia-induced replication catastrophe
Ester Hammond (MRC Oxford Institute for Radiation Oncology, University of Oxford, Oxford, GB)
12:05 - 12:40 Cancer-cell-intrinsic cGAS expression mediates tumor immunogenicity
Maries van den Broek (UZH, Zürich, CH)

12:40 - 14:00 Lunch break

Session 3a: Radio-immunotherapy

14:00 - 15:00 Keynote: Radiation immunogenicity
Silvia Formenti (Weill Cornell Medicine, New York, US)
15:00 - 15:35 An industry perspective on the integration radiotherapy combinations into drug development
Simon Dovedi (AstraZeneca, Cambridge, GB)

15:35 - 15:55 Coffee break

Session 3b: Radio-immunotherapy

15:55 - 16:30 Optimizing immunomodulation in glioblastoma treatment, a matter of timing and combinations
Leila Akkari (Netherlands Cancer Institute, Oncode Institute, Amsterdam, NL)
16:30 - 17:05 Molecular and immune mechanisms of resistance to radiation + checkpoint immunotherapy
Jason Luke (UPMC Hillman Cancer Center and University of Pittsburgh, Pittsburgh, US)

Organizing committee

Prof dr. Marcel Verheij, MD, PhD
Dr. Marleen Ansems, PhD
Dr. Paul N. Span, PhD

Scientific committee

Prof dr. Gosse Adema, PhD
Prof dr. Jan Bussink, MD, PhD
Prof dr. Marcel Verheij, MD, PhD
Prof dr. Hans Kaanders, MD, PhD
Dr. René Monshouwer, PhD
Dr. Marleen Ansems, PhD
Dr. Paul N. Span, PhD

Day 2 Friday 1 October 2021

Session 4: Imaging

8:30 - 09:05 Radionuclide imaging in immuno-oncology
Sandra Heskamp (Radboudumc, Nijmegen, NL)
9:05 - 09:40 MR imaging of tumor hypoxia levels from mild to severe: Biological and clinical significance
Heidi Lyng (Oslo University Hospital, Oslo, NO)
9:40 - 10:15 Online response-adaptive MR-guided radiotherapy
Daniel Zips (University Hospital, Tübingen, DE)

10:15 - 10:35 Coffee break

Session 5: Omics & Radiomics

10:35 - 11:10 Personalized radiation therapy using GARD, the genomically adjusted radiation dose
Jake Scott (Cleveland Clinic, Cleveland, US)
11:10 - 11:45 Radiomics for assessment of response to systemic therapies
Laurent Derclé (NewYork Presbyterian, Columbia University Irving Medical Center, New York, US)
11:45 - 12:20 Artificial Intelligence in Cancer Imaging
Hugo Aerts (Harvard @ Maastricht University, Maastricht, NL)
12:20 - 12:55 Deep Learning in Oncology
Bram van Ginneken (Radboudumc, Nijmegen, NL)

12:55 - 14:00 Lunch

14:00 - 15:00 Keynote: Zen and the Art of Immune Maintenance
Bill McBride (UCLA, Los Angeles, US)

BREAKOUT SESSION (by invitation only)

15:00 - 17:30 BSG RIT/Biomarkers

Join us!

Please visit the website for registration and more information:
www.radboudumc.nl/bridgingradiotherapyandimmunotherapy