

Nijmegen 2021: Bridging Radiotherapy & Immunotherapy

30 September to 1 October 2021

Preliminary Scientific Program



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, Onco 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)

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