



8th MELODI workshop
Radiation Effects on the Immune System
REIS - 3
Maison MINATEC
Grenoble, France, April 28-29, 2026

Tuesday, April 28, 2026

8.15-8.45 **Registration**

8.45-9.00 **Workshop introduction by Katalin Lumnitzky (MELODI Chair, NNGYK, Hungary) & Serge Candéias (CEA, France)**

Session 1	Effects of radiation on normal tissues
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9.00-9.30 **Rob P Coppes (UMCG, Groningen, The Netherlands)**
Irradiation affects the regenerative response of glandular tissues through immune and senescence related cytokines

9.30-9.50 **Anthony J Chalmers (U. Glasgow, Glasgow, UK)**
Modifying radiation effects on normal brain with inhibitors of the DNA damage response: mechanisms and clinical implications.

9.50-10.10 **Alexandra Chicheportiche (CEA, Fontenay Aux Roses, France)**
Comparative effects of photon versus proton radiation exposure on the developing mouse brain during adolescence

10.10-10.30 **Francesca Antonelli (ENEA, Rome, Italy)**
Dissecting the role of the cerebellar microenvironment and glial cells in medulloblastoma development following gamma irradiation

Coffee break	10.30 - 11.00
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11.00-11.20 **Téni Ebrahimian (ASRN, Fontenay Aux Roses, France)**
Immunomodulatory Effects of Low- and moderate-dose Ionizing Radiation in the context of Atherosclerosis

11.20-11.40 **Alexandra Mekes-Adamczyk (University Hospital, Essen, Germany)**

Radiotherapy-induced gut microbiota dysregulation drives immune imbalance and pulmonary fibrosis along the gut-lung axis

11.40-12.00 Katalin Lumniczky (NNGYK, Budapest, Hungary)

Extracellular vesicles originating from irradiated cells activate cytoplasmic DNA sensing and modulate immune phenotypes in bone marrow MSCs

Young Scientists session

12.00-12.10 Léa Di Maria (CEA, Grenoble, France)

Obesity, hormones, and their influence on the immune microenvironment in radiation-associated female cancer

12.10-12.20 Amy Hardy (University of Gothenburg, Gothenburg, Sweden)

Cytokine Concentration in Plasma, Liver, and Spleen from Rats Injected with Low to Medium Amounts of ¹³¹I

12.20-12.30 Ahmed Salah (J. Gutenberg University Medical Center, Mainz, Germany)

Comparative genome-wide transcriptomic responses of whole blood to neutron and X-ray exposure

12.30-12.40 Veronika Zolkina (UMCG, Groningen, The Netherlands)

Population-Based Pharmacokinetic Modelling of Zr-89 Labelled Antibodies Using Non Linear Mixed-Effects Approaches for Optimized Imaging and Quantification

Lunch

12.40 - 14.00

Session 2

Immunomodulatory effects of radiation during cancer treatment

14.00 - 14.30 Claire Vanpouille-Box (Weill Cornell Med, New York, USA)

From Metabolic Adaptation to Immune Evasion: Targeting Lipid Metabolism in Glioblastoma

14.30-14.50 Anna Dubrovskaya (ONCORAY, Dresden, Germany)

A synergy between radiotherapy and Immunotargeting of CD98hc for the treatment of immune cold HNSCC

14.50-15.10 Michele Mondini (Gustave Roussy, INSERM U1355, Villejuif, France)

Spatially Fractionated Radiotherapy to Improve RT–Immunotherapy Combination

15.10-15.30 Udo S. Gaipl (Universitätsklinikum, Erlangen, Germany)

Immune-modulating effects of radiation: basic mechanisms and challenges of radio-immunotherapies

Coffee-break 15.30 - 16.00

16.00-16.20 Germain Rousselet (CEA, Fontenay Aux Roses, France)

The radio-induced immune response as a therapeutic target in radiotherapy

16.20-16.40 Alvaro Teijeira (CIMA, Pamplona, Spain)

New effects of radiotherapy on anti-tumor immune responses, from NETosis to CAR-T cell mediated cytotoxicity resistance.

16.40-17.00 Samuel Valable (ISTCT, Caen, France)

Investigating proton vs. x-ray brain radiotherapy on radiation-induced lymphopenia

17.00-17.20 Lorenzo Galluzzi (FCCC, Philadelphia, USA)

Targeting the mitochondrial checkpoint to enhance the immunogenicity of radiation therapy

17.20-17.40 Christophe Badie (UKHSA, Didcot, UK)

New insights in radiation leukaemogenesis

17.40-18.00 Benjamin Frey (Universitätsklinikum, Erlangen, Germany)

Effect of low and very low dose of irradiation on the immune System: From ancient radon bathes to modern radiotherapy

Social dinner at “[L'épicurien](#)” restaurant

1 place aux Herbes, Grenoble

Wednesday, April 29, 2026

Session 3	Senescence - Aging
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9.00-9.30 **Corinne Abbadie (CANTHER, Lille, France)**

Radio-induced senescence: a step towards post-radiotherapy second cancers?

9.30-9.50 **Umberto Galderisi (Luigi Vanvitelli Campania University, Naples, Italy)**

Low-Dose Radiation-Induced Senescence in Mesenchymal Stromal Cells: The Causative Role of IGFBP Factors in SASP-Mediated Systemic Aging and Immunosenescence

9.50-10.10 **Ana O’Loghlen (CSIC-RIB, Madrid, Spain)**

“Resolvin” inflammation in senescence and ageing

10.10-10.30 **Gomolka Maria (BfS, Neuherberg, Germany)**

The Radon Biobank – RADI – (Radon inhouse): a biobank to decipher radon-induced systemic effects

Coffee-break	10.30 - 11.00
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Session 4	High LET - Space radiation
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11.00-11.20 **Anna Fogtman (ESA, Cologne, Germany)**

Space Radiation and Human Health: Mission-Relevant Exposures and Key Uncertainties

11.20-11.40 **Silvana Miranda (GSI, Darmstadt, Germany)**

Immune Responses Under the Space Exposome: How CD4+ T Cells React to Simulated Spaceflight Conditions

11.40-12.00 **Serge Candéias (CEA, Grenoble, France)**

Influence of radiation quality and energy on radiation-induced inflammation in primary human cells

12.00-12.10 **Conclusions of the workshop**

Lunch	12.10 – 3.30
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13.30-15.00 **Round table discussions -. Organisation of conference papers**

Wrap-up of the workshop
