

# IONIZING RADIATION AND FIGHT AGAINST CANCER WHAT CONTRIBUTION FROM RESEARCH?

Maison Irène et Frédéric Joliot-Curie  
100, rue du Trône, Brussels

Thursday, February 2, 2023  
9:30 – 16:45

*Techniques using IR are essential in the fight against cancer (imaging, Radiotherapy, radiopharmaceuticals...) and have shown, through the significant increase in life expectancy of treated patients their effectiveness in both diagnosis and treatment. The rapid evolution of these techniques in connection with technological progress raises the question of the safety of patients and caregivers as well as the occurrence of long-term effects. In this context, it is of the utmost importance to carry out R&D actions to improve safety, evaluate risks (benefit/risk balance), anticipate, move towards personalized medicine and take advantage of AI techniques.*

*A few days before World Cancer Day, IRSN and its partners INSERM, CNRS and CEA at the "Maison Irène and Joliot Curie" wanted to bring together the organizations and institutions involved in these research activities in France and Europe to share and discuss the issues at stake and to learn more about current and future initiatives at both levels*

## Provisional Agenda

**9:30 - Welcome of participants**

**10:00 - Opening address**

Jean-Christophe Niel, Director General of IRSN

### FRENCH STRATEGY AND ROADMAP

**10:10 - Presentation of the French ten-year fight against cancer strategy with a focus on research activities**

Marianne Duperray, Director of Recommendations and Medicines – Institut National du Cancer

**10:15 - What progress and what perspectives in the field of imaging (particularly that using IR) used in the detection of cancer**

Pr. Jean-François Chateil, CHU Bordeaux or Pr. Hubert Ducou Le Pointe AP-HP - French Society for Radiology

**10:30 - Roadmap of the national network in the field of pre-clinical research in radiotherapy (RadioTransNet)**

Prof. Philippe Maingon, coordinator of Radiotransnet network, AP-HP

**10:45 – Discussion with the panel**

**11:00 - Coffee Break**

### STATE OF THE ART OF RESEARCH

**11:15 – Cancer and the use of ionising radiation (TBC)**

François Paris, Director of research, INSERM U892

**11:30 - The challenges of new nuclear techniques in the medical field**

Denis Dauvergne, Director of Research, CNRS-IN2P3, coordinator of Mi2B research group

**11:45 - Therapeutic innovations applied to tumor irradiation: combined treatment and personalized approach**

Prof. Eric Deutsch, Institut Gustave Roussy

**12:00 - Progress in the field of imaging in relation to cancer detection,**

Prof. Vincent Lebon, CEA/Université Paris-Saclay

**12:45 - LUNCH**

## EUROPEAN AND INTERNATIONAL ACTIONS

**13:45 – Member of the European Parliament keynote (TBC)**

**14:00 - The EU Mission on Cancer,**

Jan Van de Loo, Scientific lead for the mission on cancer, European Commission, DG-RTD

**14:15 - SAMIRA action plan (strategic program for applications using ionizing radiation for medical purposes)**

Georgi Simeonov, European Commission, DG ENER

**14:30 - EU research on radioprotection and medical applications**

Dr. Domenico Rossetti di Valdalbero, Deputy Head of Unit EURATOM Research, European Commission, DG RTD

**14:45 - The Rocc-N-Roll project H2020/EURATOM) : an integrated and coordinated european approach for innovation and research in the field of medical applications using ionizing radiations**

Christoph Hoeschen, scientific coordinator, Otto-von-Guericke-Universität Magdeburg (TBC)

**12:15 - Limiting adverse events and improving patient quality of life,**

Marc Benderitter, Deputy Director of Health, IRSN

**12:30 – Discussion with the panel**

**15:00 - EURATOM PIANOFORTE partnership with a focus on medical applications**

Jean-Christophe Gariel, coordinator, IRSN

**15:15 - IAEA's Rays of Hope initiative for equitable access to radiological medicine: what is at stake for European research?**

May Abdel-Wahab, Director of NAHU, IAEA

**15:30 - Discussion with the panel**

**15:45 - Coffee Break**

**16:00 – New equipment and therapeutic methods: Anticipating new risks and improving patients' quality of life**

Round table chaired by Marie-France Bellin, IRSN president of the board, with representatives of radiotherapy professionals, nuclear medicine, and patient associations.

**16:30 - Conclusion**

Marie-France Bellin, IRSN President of the board

### Practical details



**2 February 2023**  
10:00 CET (doors open at 09:30)



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