

Program

Friday 26 of November

12:00	Registration
14:00 - 14:40	<p>Opening ceremony Centre François Baclesse educational department <i>Chair: Prof. Siamak Haghdoost, UniCaen</i></p> <p><i>14:00-14:10</i> Professor Marc-André Mahe, general director Centre Francois Baclesse.</p> <p><i>14:10-14:20</i> Pr. Lamri Adoui, president of the University of Caen Normandy.</p> <p><i>14:20-14:30</i> Will be announced later</p> <p><i>14:30.14:35</i> Dr. Georgia Terzoudi, president of ERRS.</p> <p><i>14:35.14:40</i> Dr. Jean-Pierre Pouget, French society of radiobiology.</p> <p>Information from organizers</p>
14:50 - 15:50	<p>Opening lecture <i>Chair: Prof. Jacques Balosso, Centre Francois Baclesse, Caen</i></p> <p>Professor Roberto Orecchia, Department of Radiation Oncology, IEO Milan, Italy, Clinical outcomes, development and future directions of Carbon Ion RadioTherapy (CIRT) worldwide and in Europe.</p>
17:00 - 21:00	<p>Get together: Guided tour of town hall and mingle at "salle du Duc Rollon", welcome address by: Dr Dominique Goutte, Vice President of Caen La Mer</p>

Saturday 27 of November

8:30 - 9:30	<p>Keynote speaker 1</p> <p><i>Chair: Dr. Jean-Pierre Pouget, INSERM, Institut de Recherche en Cancérologie de Montpellier, France</i> <i>Co-chair: Dr. Mira Hammad, UniCaen, CIMAP/Aria, Caen</i></p> <p>Fabrizio D'adda Di Fagagna, Principal Investigator, Institute of Molecular Genetics, National Research Council, Pavia, Italy. Non-coding RNA synthesis at DNA lesions.</p>
9:30 - 10:00	Coffee
10:00 - 11:30	<p>Invited Lectures</p> <p><i>Chair: Dr. Samuel Valable, CNRS, Caen</i> <i>Co-chair: Prof. Martin Falk, Czech Republic</i></p> <p><i>10:00-10:30</i> Roel Quintens, PhD, Senior scientist, Radiobiology Unit SCK-CEN, Belgium. Molecular signature of radiation exposure.</p> <p><i>10:30-11:00</i> Claudia E. Rube, Professor, Clinic for Radiation Therapy and Radiation Oncology, Saarland University Medical Center, Homburg, Germany, DNA damage and Neurogenesis.</p> <p><i>11:00-11:30</i> Davide Cinat, Department of Radiation Oncology, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands, Differential inflammatory response between photons and protons in salivary gland organoids.</p>
11:30 - 12:30	<p>Session 1</p> <p><i>Chair: Dr. Serge Candéias, CEA, France</i> <i>Co-chair: Dr. Carine Laurent, ABTE, Caen</i></p> <p><i>11:30-11:50</i> Nolwenn Pasquet, CNRS, Caen, Overcoming hypoxia-induced radioresistance of glioblastoma cells by hadrontherapy.</p> <p><i>11:50-12:10</i> Traimate Sangsuwan, Stockholm University, Sweden, Oxidative stress levels and DNA repair kinetics in senescent primary human fibroblasts exposed to low- or high-dose-rates of ionizing radiation.</p> <p><i>12:10-12:30</i> Soile Tapio, Helmholtz Zentrum München, Germany, Data-Independent Acquisition Proteomics Reveals Long-Term Biomarkers in the Serum of C57BL/6J Mice Following Local High-Dose Heart Irradiation.</p>

<p>(G1) 12:30 - 13:30</p> <p>(G2) 13:30 - 14:30</p>	<p>Lunch</p> <p><i>Chair: Prof. Siamak Haghdoost, UniCaen, France</i></p> <p>13:00-13:20, Dr. Anna Fogtman, European Space Agency (ESA): presentation of ESA science.</p> <p>13:40-14:00, Dr. Héloïse Goutte, GANIL: presentation of GANIL facility, key features and research activities.</p>
<p>14:30 - 15:30</p>	<p>Keynote speaker 2</p> <p><i>Chair: Dr Soile Tapio, Helmholtz Zentrum München, Germany</i> <i>Co-chair: Dr. Mathieu Cesaïre, Centre Francois Baclesse, Caen</i></p> <p>Joanna Polanska, Professor of Bioinformatics at the Silesian University of Technology, Gliwice, Poland, Title: Bioinformatics methods for functional genomics in radiation research</p>
<p>15:30 - 16:30</p> <p>15:30-15:50</p> <p>15:50-16:10</p> <p>16:10-16:30</p>	<p>Session 2</p> <p><i>Chair: Dr. Georgia Terzoudi, Athens, Greece</i> <i>Co-chair: Dr. Elodie Pérès, UniCaen, France</i></p> <p>Carine Laurent, ABTE-ToxEMAC laboratory, Caen, France, Differential normal skin transcriptomic response in total body irradiated mice exposed to scattered versus scanned proton beams.</p> <p>Martin Falk, Institute of Biophysic, Czech Academy of Sciences, Czech Republic, Functional Micro- and Nano-Scale Architecture of DNA Double Strand Break Repair Foci (IRIFs) in Normal and Cancer Cells, Implications for DSB Repair and Cell Radiosensitivity.</p> <p>Katalin Lumniczky, National Public Health Centre, Hungary, Extracellular vesicles in ionizing radiation-induced leukaemias.</p>
<p>16:30 - 16:50</p>	<p>Coffee</p>
<p>16:50 - 17:40</p>	<p>Poster viewing 1</p>
<p>17:40 - 18:20</p>	<p>Young investigator awardee presentations</p> <p><i>Chair: Dr. Georgia Terzoudi, Athens, Greece</i> <i>Chair: Dr. François Chevalier, CEA/CIMAP/Aria, Caen</i></p>

<i>17:40-17:50</i>	Elien Beyls , SCK-CEN, Belgium, Skin problems in space: mimicking the spaceflight environment in the lab.
<i>17:50-18:00</i>	Mira Hammad , UniCaen, France, Effects of combined particle irradiation and oxidative stress response inhibitor on survival and differentiation process of primary human stem cells.
<i>18:00-18:10</i>	Antoine Gilbert , UniCaen, France, Impact of Hypoxia and Hadrontherapy on Radioresistant Chondrosarcoma Cancer Stem Cells.
<i>18:10-18:20</i>	Nadia Boroumand , SU, Sweden, Cancer-related changes in cells exposed to alpha radiation in combination with nicotine.

Sunday 28 of November

8:30 - 9:30	<p>Keynote speaker 3</p> <p><i>Chair: Dr. François Chevalier, CEA/CIMAP/Aria, Caen</i> <i>Co-chair: Antoine Gilbert, UniCaen</i></p> <p>Serge Candéias, Senior researcher, CEA, Université Grenoble Alpes, CNRS, IRIG-LCBM, Grenoble, France. Title of talk: Long-term immuno-modulatory effects of ionizing radiation.</p>
9:30 - 10:00	<p>Coffee</p>
10:00 - 11:30	<p>Invited Lectures</p> <p><i>Chair: Prof. Joanna Polanska, the Silesian University of Technology, Gliwice, Poland</i> <i>Co-chair: Dr. Teni Ebrahimian, IRSN, France</i></p> <p><i>10:00-10:30</i> Juliette Thariat, Professor, Centre François Baclesse, Caen, France. Prediction of tissue reactions in the era of precision radiotherapy.</p> <p><i>10:30-11:00</i> Claudia Founier, Professor, Immune system and tissue radiobiology, GSI Helmholtzzentrum, Darmstadt, Germany. Title of talk: Genetic risk and therapeutic use of exposure to low doses of radon – two sides of the same coin.</p> <p><i>11:00-11:30</i> Isabelle Thierry-Chef, Head of the Medical Radiation Group, Institute for Global Health, Barcelona, Spain. Title of talk: Adverse health risk from medical use of radiation in pediatrics.</p>
11:30 - 12:30	<p>Session 3</p> <p><i>Chair: Prof. Geza Safrany, Budapest, Hungary</i> <i>Co-chair: Dr. Myriam Bernaudin, CNRS, Caen</i></p> <p><i>11:30-11:50</i> Teni Ebrahimian, IRSN, France, Low to moderate dose ^{137}Cs (γ) radiation enhances M2 type macrophages function at short term associated with reduced inflammation at long term exposure in ApoE(-/-) mice.</p> <p><i>11:50-12:10</i> Helmut Schöllnberger, Helmholtz Zentrum München, Germany, Radio-biologically motivated modeling of radiation risks of mortality from ischemic heart diseases in the Canadian fluoroscopy cohort study.</p>
(G1) 12:10 - 12:50	<p>Lunch</p> <p><i>Chair: Prof. Jacques Balosso, Centre Francois Baclesse, Caen</i></p>

(G2) 12:50 - 13:30	Sponsor presentation (13:00-13:20) by Dr. Claude Dupont , IBA
13:30 - 14:30	Poster viewing 2
	Social activity, guided tour of “Mémorial de Caen”

Monday 29 of November

8:30 - 9:30	<p>Keynote speaker 4</p> <p><i>Chair: Dr. Peter Sminia, University of Amsterdam, The Netherlands</i> <i>Co-chair: Dr. Mira Hammad, UniCaen, CIMAP/Aria, Caen</i></p> <p>Karine Van Doninck, professor, Université Libre de Bruxelles (ULB) and University of Namur (UNamur), Belgium. Preliminary title: mechanism/s underlying extreme radio-resistance.</p>
9:30 - 10:00	<p>Coffee</p>
10:00 - 11:30	<p>Invited Lectures</p> <p><i>Chair: Dr. Marc Benderitter, IRSN, France</i> <i>Co-chair: Soukaina Kawni, UniCaen, France</i></p> <p><i>10:00-10:30</i> Mahmoud Moustafa, German Cancer Research Center, Heidelberg, Germany, Targeted trapping of TGFbeta in the PDL1+ cellular compartments reprograms cold tumors and simultaneously attenuates normal tissue toxicity.</p> <p><i>10:30-11:00</i> Nicolas Foray, Head of “Radiation: Defense, Health, Environment” INSERM, Lyon, France, Title: The radiation-induced nucleoshuttling of the ATM protein, a unified mechanistic model to better understand radio-sensitivity/susceptibility.</p>
11:00 - 12:00	<p>Session 4</p> <p><i>Chair: Dr. Nicolas Foray, Inserm, France</i> <i>Co-chair: Rima Salma, UniCaen, France and Uppsala University, Sweden</i></p> <p><i>11:00-11:20</i> Mihaela Tudor, Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH), Romania, Charged Particle Irradiation Effects on Human Chondrosarcoma Cells.</p> <p><i>11:20-11:40</i> Valerio Ricciardi, Istituto Nazionale di Fisica Nucleare, section of Naples, Italy, Increasing the biological effectiveness of protontherapy through the Proton-Boron Capture Therapy approach: novel insights from monochromatic low-energy and clinical high-energy proton beam irradiations.</p> <p><i>11:40-12:00</i> Elise Konradsson, Lund University, Sweden, Hypofractionated FLASH radiotherapy versus conventional radiotherapy in an immunocompetent rat glioma model.</p>
(Group1) 12:00 - 13:00	<p>Lunch and ERRS COUNCIL member meeting (12:30-13:30)</p> <p><i>Chair: Dr. Mira Hammad, UniCaen, CIMAP/Aria, Caen</i></p>

<p>(Ggroup2)</p> <p>13:00 - 14:00</p>	<p>Sponsor presentations;</p> <p>13:00-13:20: Alliance Bio Expertise,</p> <p>13:25-13:45 Actemium/Precision X-Ray Irradiation</p>
<p>14:00 - 15:00</p>	<p>Bacq & Alexander Award by ERRS</p> <p><i>Chair: Dr. Georgia Terzoudi, president of ERRS, Greece</i></p> <p>Prof. Michael J. Atkinson, Technical University of Munich and Helmholtz Zentrum, Germany, Changing the radiation biology paradigm with “Omics”?</p>
<p>15:00 - 16:00</p> <p><i>15:00-15:30</i></p> <p><i>15:30-16:00</i></p>	<p>Invited Lectures</p> <p><i>Chair: Joanna Polanska, the Silesian University of Technology, Gliwice, Poland</i></p> <p><i>Co-Chair: Rima Salma, Unicaen and Uppsala University</i></p> <p>Julie Nonnekens, Assistant Professor, Erasmus University Medical Center, Rotterdam Netherlands, Targeted radiotherapy.</p> <p>Noami Daems, PhD, scientist, SCK-CEN, Belgium, use of nano-particles as radiosensitizers”.</p>
<p>16:00 - 16:30</p>	<p>Coffee</p>
<p>16:30 - 17:30</p> <p><i>16:30-16:40</i></p> <p><i>16:40-16:50</i></p> <p><i>16:50-17:00</i></p> <p><i>17:00-17:10</i></p>	<p>Young investigator awardee presentations</p> <p><i>Chair: Dr. Peter Sminia, University of Amsterdam, The Netherlands</i></p> <p><i>Co-chair: Prof. Jacques Balosso, Centre Francois Baclesse, Caen</i></p> <p>Pamela Akuwudike, SU, Sweden, Cell-type specific differences in the competitive relationship between cell killing and accumulation of carcinogenic DNA lesions following fractionated radiation exposure.</p> <p>Pei Pei Che, UMC, the Netherlands, An in vitro 3D co-culture model of pancreatic ductal adenocarcinoma and stellate cells for preclinical assessment of chemo-radiotherapy.</p> <p>Karin Nuijens, UMC, the Netherlands, Gamma-H2AX Foci Decay Ratio as a Stronger Predictive Factor of Late Radiation Toxicity Than Dose-Volume Parameters in a Prospective Cohort of Prostate Cancer Patients.</p> <p>Silvana Ferreira, SCK-CEN, Belgium, Effects of the space environment on the activation of T-Cells.</p>

<i>17:10-17:20</i>	Eline Radstake , U-Gent, SCK-CEN, Belgium, Cryopreserved whole blood and isolated peripheral blood mononuclear cells as alternative sample types for the cytokinesis-block micronucleus assay.
<i>17:20-17:30</i>	Stefan Roobol , EUMC, the Netherlands, Live single cell tracking and deep learning-based analysis of DNA damage induction and repair following beta particle radionuclide therapy.
17:30 - 18:30	Free time
18:30 - 22:30	Congress dinner, Le Mancel Restaurant du Château

Tuesday 30 of November

8:30 - 9:30	<p>Keynote speaker 5</p> <p><i>Chair: Dr. Anne Marie Frelin, GANIL, France</i> <i>Co-chair: Samuel Eden, Open University, UK</i></p> <p>Jaroslav Kocisek, Senior scientist, Institute of Physical Chemistry of the Czech Academy of Sciences, Prague, Czech Republic Title: Interaction of secondary low-energy electrons with DNA and its components.</p>
9:30 - 10:30	<p>Coffee and ERRS General Assembly</p>
10:30 - 12:00	<p>Invited Lectures</p> <p><i>Chair: Dr. Jaroslav Kocisek, Institute of Physical Chemistry of the Czech Academy of Sciences, Czech Republic</i> <i>Co-chair: Dr. Nolwenn PASQUET, Unicaen, France</i></p> <p><i>10:30-11:00</i> Giorgio Biaocco, Senior researcher, Radiation Biophysics and Radiobiology group, University of Pavia, Italy. Title: A matter of space: from radiation transport to track-structure effects at the subcellular level.</p> <p><i>11:00-11:30</i> Pablo Cirrone, Professor of Medical Physics, National Institute of Nuclear Physics-Southern National Laboratories, Catania, Italy, Study and implementation of new Monte Carlo algorithms for the linear energy transfer and biological damage evaluation for ion beams at the micro- and nano-scale.</p> <p><i>11:30-12:00</i> Daniel Cussol, Senior researcher, LPC Caen IN2P3/ENSICAEN/Université de Caen: Title: Using light ions for radiation therapy: a nuclear physicist view.</p>
12:00 - 13:00	<p>Session 5</p> <p><i>Chair: Dr. Daniel Cussol, EnsiCaen, France</i> <i>Co-chair: Dr. Giorgio Baiocco, Univesity of Pavia, Italy</i></p> <p><i>12:00-12:20</i> Christian Schunck, MetaSystems, Germany, Standardized and Automated Biological Dosimetry.</p> <p><i>12:20-12:40</i> Sergey Denisov, Université Paris-Saclay, France, ELYSE electron accelerator as a tool for FLASH-radiotherapy studies in kilo to Giga Gy per second.</p> <p><i>12:40-13:00</i> Alice Mentana, University of Pavia, Italy, Dosimetry at the subcellular scale: Modeling in vitro exposures to tritiated particles within the TRANSAT project.</p>
13:00-13:30	<p>Closing ceremony</p>

