MELODI 7th Workshop, 9 – 11 November 2015
Next Generation Radiation Protection Research
Helmholtz Zentrum München, Ingolstädter Landstr. 1, Neuherberg, Germany

Programme

Monday, 9 November 2015

Session 1: Radiation Protection Research in Europe
Chair: Peter Jacob, Helmholtz Zentrum München, Germany
Building 23, Auditorium

13.30 NikoIaIu Blum, Administrative Director, Helmholtz Zentrum München, Germany
András Siegler, Director, Directorate Energy
Directorate General for Research and Innovation, European Commission, Belgium:
"Integrating radiation protection research at EU level"

Christian Greipl, Director, Directorate Radiation Protection, Federal Ministry for the
Environment, Nature Conservation, Building and Reactor Safety, Germany:
"Expectations in MELODI from the German regulatory authority"

Wilfried Kraus, Director, Directorate Sustainability, Climate and Energy, Federal Ministry
of Education and Research, Germany:
"Maintaining and enhancing competence in radiation protection – The German radiation
research initiative"

William F Morgan, Chair of ICRP Committee 1, Pacific Northwest National Laboratory, USA:
"Scientific Needs of ICRP for the Next Generation of Radiation Protection"

Jacques Repussard, Chair of MELODI, Institut de Radioprotection et de Sûreté Nucléaire, France

Thomas Jung, Head of Department of Radiation Protection and Health, Federal Office of
Radiation Protection, Germany:
"CONCERT - Joint programming to advance radiation protection research in Europe"

15.00 Coffee and tea

Session 2: Low-Dose Radiation Research: Where are we?
Chair: Jacques Repussard, Institut de Radioprotection et de Sûreté Nucléaire, France
Building 23, Auditorium

15.30 Sisko Salomaa, STUK – Radiation and Nuclear Safety Authority, Finland: DoReMi
16.20 Peter Jacob, Helmholtz Zentrum München, Germany: EpiRadBio
17.05 Break
Public Lecture
Building 23, Auditorium

17.15 Chair: Mats Harms-Ringdahl, Stockholm Universitet, Sweden
Pieter Monsieurs, Belgian Nuclear Research Centre, Belgium:
Next Generation Sequencing

18.30 Get together (Building 54, Canteen)

Tuesday, 10 November 2015

Session 2: Low-Dose Radiation Research: Where are we? (continued)
Chair: Jacques Repussard, Institut de Radioprotection et de Sûreté Nucléaire, France
Building 23, Auditorium

09.00 Andrea Ottolenghi, University Pavia, Italy: ANDANTE
09.20 Mike Atkinson, Helmholtz Zentrum München, Germany: PROCARDIO
09.40 Rafi Benotmane, Belgian Nuclear Research Centre, Belgium: CEREBRAD
10.00 Ausrele Kesminiene, International Agency for Research on Cancer, France: EPI-CT

10.20 Coffee and tea

Session 3: Low-dose risk
Chair: Sisko Salomaa, Säteilyturvakkeskus, Finland
Building 23, Auditorium

10.50 Horst Zitzelsberger, Helmholtz Zentrum München, Germany:
Molecular landscape of papillary thyroid carcinomas from the UkrAm cohort and modelling of carcinogenesis

11.20 Roy Shore, Radiation Effects Research Foundation, Japan: Radiation risk inference at low dose and low dose rate exposure for radiological protection purposes

11.50 Gayle Woloschak, Northwestern University, IL, USA:
Large-scale animal studies for evaluation of dose and dose rate responses

12.05 Helmut Schöllnberger, Helmholtz Zentrum München, Germany:
Dose-responses for cerebrovascular and heart disease in atomic bomb survivors – an analysis involving multi-model inference techniques

12.20 DB Richardson on behalf of the INWORKS consortium. University of North Carolina, NC, USA:
Risk of cancer mortality in an international study of nuclear workers (INWORKS)

12.35 Lunch and Poster Session A
Building 3532, Rooms 1050 and 1051
**Session 4: Factors affecting individual risk**

Chair: Richard Wakeford, University of Manchester, UK
Building 23, Auditorium

14.00 Dominique Laurier on behalf of the INWORKS consortium. Institut de Radioprotection et de Sûreté Nucléaire, France: Risk of leukaemia, lymphoma, and multiple myeloma in an international study of nuclear workers (INWORKS)

14.30 Markus Eidemüller, Helmholtz Zentrum München, Germany: Individual risk factors for breast cancer and risk transfer among populations

15.00 Aleksandra Fucic, Institute for Medical Research and Occupational Health, Zagreb, Croatia: Acentric fragments are associated with cancer risk in subjects occupationally or accidentally exposed to ionizing radiation: Re-analysis of a large European pooled cohort

15.15 Hanane Derradjii, Belgian Nuclear Research Centre, Belgium: Changes induced by radiation and iodine deficiency in thyroid cells

**Session 5: ALLIANCE-MELODI cross cutting themes**

Chair: Hildegard Vandenhove, Studiecentrum voor Kernenergie -Centre d’Étude de l’énergie Nucléaire, Belgium
Building 33, Großer Hörsaal

14.00 Béatrice Gaignaire, Institut de Radioprotection et de Sûreté Nucléaire, France: Biomarkers of exposure and effects: Are they useful tools to understand radiation sensitivity in living organisms?


14.40 Nele Horemans, Belgian Nuclear Research Centre, Belgium: Studying response of plants to radiation using biomarkers of different levels of biological complexity

15.00 Maria Antonella Tabocchi on behalf of the Cosmic Silence collaboration. Istituto Superiore di Sanità and INFN Roma1-Gr.coll.Sanità, Roma, Italy: The cosmic silence experiment: investigation of the molecular mechanisms involved in the biological response of living systems to environmental radiation

15.15 Hans-Christian Teien, Centre for Environmental Radioactivity, Norway: Gamma radiation affects gene expression in early life stages of Atlantic salmon

15.30 Break
Session 6: New biology
Chair: Andrzej Wojcik, Stockholm Universitet, Sweden
Building 23, Auditorium
16.00 Munira Kadhim, Brookes University, UK: 
Role of micro vesicles in non-targeted effects of radiation
16.30 Laure Sabatier, Commissariat à l’énergie atomique et aux énergies alternatives, France: 
Telomere length distributions in members of radio-epidemiological cohorts
17.00 S. Constantino Rosa Santos, Centro Cardiovascular da Universidade de Lisboa and 
Universidade de Lisboa, Portugal: Low doses of ionizing radiation enhance angiogenesis
17.15 Ann-K Olsen, Norwegian Institute of Public Health, Norway: Global gene expression and 
DNA methylation in testicular mouse cells after chronic exposure to continuous low dose 
rate gamma irradiation and Selenium deficiency

Session 7: EURADOS-MELODI cross cutting themes
Chair: Filip Vanhavere, Belgian Nuclear Research Centre, Belgium
Building 33, Großer Hörsaal
16.00 Eric Blanchardon, Institut de Radioprotection et de Sûreté Nucléaire, France: 
Dose reconstruction in the CURE project for workers exposed to uranium
16.30 Marina Degteva, Southern Urals Biophysical Institute, Russia: 
Dose reconstruction in the SOLO project for Mayak workers and former residents of the 
Techa River area
17.00 E. Schmitt, Helmholtz Zentrum München, Germany: 
PARTRAC – Recent developments towards medical applications
17.15 Roger Harrison on behalf of EURADOS WG9: 
Out-of-field dosimetry in radiotherapy for input to epidemiological studies

19.30 Workshop dinner
Wednesday, 11 November 2015

Session 8: Infrastructures, education and training
Chair: Mike Atkinson, Helmholtz Zentrum München, Germany
Building 23, Auditorium

09.00 Vere Smyth, University Pavia, Italy: Education and training
09.30 Laure Sabatier, Commissariat à l’énergie atomique et aux énergies alternatives, France: Short introduction to the topic “Infrastructures”
09.35 NN, Helmholtz Zentrum München, Germany: The Intrafrontier Research Infrastructure
10.00 U. Kulka, on behalf of the RENE consortium. Bundesamt fuer Strahlenschutz, Germany: RENE – The Future
10.15 Siamak Haghdooost, Stockholm University, Sweden: Setups for exposing cells and animals to gamma radiation at low and high dose rate and to mixed beams of low and high LET radiation

Session 9: NERIS-MELODI cross cutting themes
Chair: Thierry Schneider, Nuclear Evaluation Protection Centre (CEPN), France
Building 33, Großer Hörsaal

09.00 Wolfgang Weiss, Freiburg, Germany: Thyroid cancer surveys after nuclear emergencies
09.25 Jean-René Jourdain, Institut de Radioprotection et de Sûreté Nucléaire, France: PRIODAC, a project to determine the modalities and side effects of multiple administrations of stable iodine to protect people chronically exposed to radioactive iodine
09.50 Wolfgang Raskob, Karlsruhe Institute of Technology, Germany: Integration of iodine tablet distribution into countermeasures strategies
10.15 F. Gering, German Federal Office for Radiation Protection, Oberschleißheim, Germany: Recent developments regarding iodine thyroid blocking in Switzerland and Germany

10.30 Break
Session 10: Radiation effects on stem cells
Chair: Jean-René Jourdain, Institut de Radioprotection et de Sûreté Nucléaire
Building 23, Auditorium

11.00 Kevin Prise, University Belfast, UK:
Breast stem cells and radiation

11.30 Umberto Galderisi, Seconda Università di Napoli, Italy: Functions and secretome activity of human mesenchymal stem cells are affected by low dose radiation treatment

12.00 Rhona M. Anderson, Medical Research Council, UK. 2Brunel University London, UK: α-particle-induced complex chromosome exchanges transmitted through extra-thymic lymphopoiesis in vitro

12.15 Nynke Hoozer, University of Groningen, The Netherlands:
Radiation induced carcinogenesis of thyroid gland stem cells

Session 11: Medical-MELODI cross cutting themes
Chair: Guy Frija, European Georges Pompidou Hospital, France
Building 33, Großer Hörsaal

11.00 R Tamarat, Institute for Radioprotection and Nuclear Safety, France:
Circulating microparticles associate to severe radiation proctitis consecutive to abdomino-pelvic radiotherapy

11.15 Iuliana Toma-Dasu, Stockholms Universitet and Karolinska Institutet, Sweden:
Risk of secondary cancer induced by radiotherapy

11.30 Wolfram Stiller, Universitätsklinikum Heidelberg, Germany:
CT technology developments: What are the benefits for radiation protection?

11.45 John Damilakis. University of Crete, Greece: 3D patient-specific and equipment-specific dosimetry in CT: from conceptus to the adolescent

12.00 C. Hoeschen, Helmholtz Zentrum München and Otto-von-Guericke University, Germany:
Common Strategic Research Agenda for Radiation Protection in Medicine by the European Medical Associations representing Ionising Radiation Applications in Medicine

12.15 Gracliano Paulo, Coimbra Health School, Portugal: Diagnostic Reference Levels in plain radiography for paediatric imaging: a Portuguese study
12.30 Lunch and Poster Session B
Building 3532, Rooms 1050 and 1051

Session 12: Concluding session
Chair: Thomas Jung, BfS, Germany
Building 23, Auditorium

14.00 MELODI Award
14.30 Contributions of Sessions 3 through 11 to MELODI SRA
15.25 Mike Atkinson, Helmholtz Zentrum München, Germany: Concluding Remarks

15.30 End of Workshop

Satellite events:

Monday, 9 November 2015

09:30-12:30 SEMI-NUC dissemination meeting (Building 23 Auditorium)
09:30-12:30 MELODI Management Board /General assembly meeting (BfS; Room 128/130)
19:30-21:00 OPERRA Management Board meeting (BfS; Room 128/130)

Wednesday, 11 November 2015

09:00-10:30 MELODI Scientific Committee (BfS; Room 128/130)
10:30-15:00 OPERRA-T2.1 EURAMET (BfS, Room 136)
16:00-17:30 European Joint Programming in radiation protection research - From OPERRA to CONCERT. Open session (Building 23 Auditorium)