

**7 October 2013**

18.00-19.00 hrs	Registration Desk Open
19.00-21.00 hrs	MELODI General Assembly (on invitation)

**8 October 2013**

9.00-10.30 hrs	<b>MELODI Workshop Opening Ceremony</b> Moderator: Frank Hardeman (SCK•CEN, B)		
	1. SCK•CEN: <b>Eric van Walle</b> 2. EU: <b>André Jouve</b> 3. WHO: <b>Ausra Kesminiene</b> 4. UNSCEAR: <b>Emil Bédi</b> 5. ICRP: <b>Bill Morgan</b> 6. MELODI: <b>Jacques Repussard</b>		
10.30-11.00 hrs	Coffee Break & Poster Session		
11.00-13.00 hrs	<b>SRA &amp; Priorities of MELODI, ALLIANCE, NERIS and EURADOS</b> Moderators: F. Hardeman (SCK•CEN, B) & T. Jung (BfS, DE)		
	1. ALLIANCE 1 <sup>st</sup> SRA/Priorities- <b>Hildegard Vandenhove (SCK•CEN, B)</b> 2. NERIS 1 <sup>st</sup> SRA/Priorities – <b>Wolfgang Raskob (KIT, DE)</b> 3. EURADOS 1 <sup>st</sup> SRA/Priorities – <b>Werner Rühm (HMGU, DE)</b> 4. MELODI 4 <sup>th</sup> SRA/Priorities – <b>Dietrich Averbeck (IRSN/CEA, F)</b>		
13.00-14.00 hrs	Lunch & Poster Session		
14.00-16.00 hrs	<b>Parallel Sessions</b>		
	<b>Fukushima: Emergency, Dosimetry, Environment, Health</b> Moderators: J.-R. Jourdain (IRSN, F) & J. Camps (SCK•CEN, B)	<b>Improvement on Collaboration on Infrastructures and Biobanks Available within EU Projects</b> Moderators: L. Sabatier (CEA, F) & L.-C. Mihailescu (SCK•CEN, B)	<b>MELODI Education &amp; Training forum Introduction &amp; Part 1</b> Moderators: M. Coeck (SCK•CEN, B) & A. Ottolenghi (UP, I)
	1. <b>Jean-René Jourdain (IRSN, F)</b> , UNSCEAR Fukushima Report : UNSCEAR's Assessment of Levels and Effects of Radiation Exposure due to the Nuclear Accident after the 2011 Great East-Japan Earthquake and Tsunami 2. <b>Richard Wakeford (UMan, UK)</b> , WHO Fukushima Report 3. <b>Peter Jacob (HMGU, DE)</b> , Ultrasonography Surveys and Thyroid Cancer after the Fukushima Accident 4. <b>Johan Camps (SCK•CEN, B)</b> , Response of SCK•CEN to the Fukushima Nuclear Accident in the Context of the Protection of Belgian Citizens	1. <b>Liviu-Cristian Mihailescu (SCK•CEN, B)</b> , Irradiations Facilities for Biological Samples – Towards the Ideal Installation 2. <b>William Hempel (CEA, F)</b> , Survey on Existing Infrastructures, Analysis of Platforms Including High-Throughput Technologies 3. <b>Eileen Pernot (CREAL, E)</b> , Cohort Availabilities and Access to Biobanks	<b>Vere Smyth (UniPv, I)</b> , Introduction to the Forum <b>Part 1: What are our priorities for E&amp;T in low-dose research?</b> <b>Mike Atkinson (HMGU, DE)</b> , What was Originally Intended by HLEG for E&T? <b>George Van Goethem (EC)</b> , E&T for Life-long-learning and Continuous Professional Development (CPD) <b>Michèle Coeck (SCK•CEN, B)</b> , E&T for Radiation Protection: EUTERP Initiatives <b>Hildegard Vandenhove (SCK•CEN, B)</b> , ALLIANCE E&T Priorities and Initiatives <b>Wolfgang Raskob (KIT, DE)</b> , NERIS E&T Priorities and Initiatives <b>Werner Rühm (HMGU, DE)</b> , EURADOS E&T Priorities and Initiatives <b>Discussion, Resolutions, Action Points</b>
16.00-16.30 hrs	Coffee Break & Poster Session		

16.30-18.00 hrs	<b>Parallel Sessions</b>		
	<b>UNSCEAR, ICRP, EU Reports</b> Moderators: S. Salomaa (STUK, FI) & H. Vanmarcke (SCK•CEN, B)	<b>Radiation Effects on Wildlife</b> Moderators: H. Vandenhove (SCK•CEN, B) & T. Hinton (IRSN, FR)	<b>MELODI Education &amp; Training forum</b> <b>Part 2: Strategies for promoting and funding E&amp;T</b> Moderators: M. Coeck (SCK•CEN, B) & A. Ottolenghi (UP, I)
	<ol style="list-style-type: none"> <li><b>Simon Bouffler (PHE, UK)</b>, UNSCEAR White Paper: Biological Mechanisms of Radiation Actions at Low Doses</li> <li><b>Patrick Smeesters (former FANC, B)</b>, Article 31 RIHHS Report on Individual Susceptibility</li> <li><b>Wolfgang Müller (UEssen, DE)</b>, UNSCEAR Report on Attribution of Health Effects</li> </ol>	<ol style="list-style-type: none"> <li><b>Christelle Adam (IRSN, F)</b>, Effect of Fukushima-Derived Radionuclides on the Physiology and Phenotype Expression of Birds Living in the Fukushima 80 km Area</li> <li><b>Jordi Vives I Battle (SCK•CEN, B)</b>, Dynamic Modelling of the Radiological Impact of the Fukushima Accident on Marine Biota</li> <li><b>Tom Hinton (IRSN, F)</b>, Radiation Effects on Wildlife: Controversies and Opportunities</li> <li><b>Nele Horemans (SCK•CEN, B)</b>, From Lab-based Ecotoxicity Tests Towards Evaluating Radiation Protection Criteria for Wildlife: Lemna Minor as an Example</li> </ol>	<p><b>Vere Smyth (UniPv, IT)</b>, Introduction: Survival in a Changing Environment</p> <p><b>George Van Goethem (EC)</b>, E&amp;T in Horizon 2020</p> <p><b>Walter Ambrosini (UniPi, IT)</b>, Scope and Strategy of the European Nuclear Education Network</p> <p><b>(Speaker TBC)</b>, Radiation Protection Legislation and E&amp;T Funding: the View from HERCA</p> <p><b>Thomas Jung (Bfs, DE)</b>, The Development of a MELODI Policy for E&amp;T</p> <p><b>Andrea Ottolenghi (UniPv, IT)</b>, E&amp;T in DoReMi, MELODI and OPERRA</p> <p><b>Discussion, Resolutions, Action Points</b></p>
20.00-21.00 hrs	Welcome Reception		
<b>9 October 2013</b>			
9.00-10.30 hrs	<b>MELODI/OPERRA Recent Developments – MELODI Award Ceremony – Summary of the Former Day</b>		
	<ol style="list-style-type: none"> <li>MELODI /OPERRA: Recent Developments</li> <li>MELODI Award Nominee Presentation</li> <li>Summary of the 3 Former Day Parallel Sessions (10 min/session)</li> </ol>		
10.30-11.00 hrs	Coffee Break & Poster Session		
11.00-13.00 hrs	<b>Plenary: Radiation Effects on Human Health</b> Moderators: S. Baatout (SCK•CEN, B) & M. Blettner (Umainz, DE)		
	<ol style="list-style-type: none"> <li><b>Rafi Benotmane (SCK•CEN, B)</b>, Strategic Research towards Cognitive and Cerebrovascular Effects of Radiation</li> <li><b>Roy Shore (RERF, J)</b>, Exposure of the Eye Lens and Cataract Risk</li> <li><b>Sarah Darby (Oxford U, UK)</b>, Heart Disease after Radiotherapy in Breast Cancer Patients</li> </ol>		
13.00-14.00 hrs	Lunch & Poster Session		
14.00-16.00 hrs	Parallel Sessions		
	<b>Genetics and Epigenetics</b> Moderators: N. Anastov (HMGU, DE) & R. Quintens (SCK•CEN, B)	<b>New Developments in Dosimetry</b> Moderators: F. Vanhavere (SCK•CEN, B) & W. Rühm (HMGU, DE)	<b>Mixed Exposure</b> Moderators: N. Horemans (SCK•CEN, B) & P. Eriksson (Uppsala University, SE)
	<ol style="list-style-type: none"> <li><b>Roel Quintens (SCK•CEN, B)</b>, Epigenetic Mechanisms Involved in the Radiation Response of the Developing Brain</li> <li><b>Leon Mullenders (LUMC, NL)</b>, Delineation of Cellular Stress Responses by Integrated "Omics" Analysis</li> <li><b>Grainne Manning (PHE, UK)</b>, Low Dose Irradiation</li> </ol>	<ol style="list-style-type: none"> <li><b>David Bartlett (former PHE, UK)</b>, Dose Concepts and their Deficiencies</li> <li><b>Hans Rabus (PTB, DE)</b>, Towards a Quantification of Radiation quality by nanodosimetry</li> <li><b>Weibo Li (HMGU, DE)</b>, Dose Distribution of Alpha and Auger-emitters in Lungs and Kidneys and at Cellular Level</li> </ol>	<ol style="list-style-type: none"> <li><b>Nele Horemans (SCK•CEN, B)</b>, Testing Radiation Effects in a Multiple Contaminant Context: an Overview of Different Concepts to Predict Mixture Toxicity</li> <li><b>(UAB, E)</b>, Trans-generational Radiation-Induced Chromosomal Instability in the Female Enhances the Action of Chemical Mutagens</li> </ol>

	Responses of Transcriptional Biomarkers in Blood 4. <b>Christopher Talbot (University of Leicester, UK)</b> , Evidence that DNMTs are Crucial to the Mechanism of Radiation-induced Genome Instability	4. <b>Annalisa Trianni (AOUUD, I)</b> , Dosimetry in Diagnostic Medical Imaging: State of the Art and New Developments 5. <b>Lara Struelens (SCK•CEN, B)</b> , Results from ELDO Project (Eye Lens Dosimetry) 6. <b>Padovani Renato (EFOMP,I)</b> , EMAN European Medical ALARA Network	3. <b>Eva Salminen (STUK, FI)</b> , Combined Effects of Radio- and Chemotherapy
16.00-16.30 hrs	Coffee Break & Poster Session		
16.30-18.00 hrs	Parallel Sessions		
	<b>High-Throughput Technologies: Advantages, Limitations and Future Challenges</b> Moderators: L. Mullenders (LUMC, NL) & H. el-Saghire (SCK•CEN, B)	<b>Radiopharmaceuticals</b> Moderators: N. Impens (SCK•CEN, B) & T. Lahoutte (VUB, B)	<b>Prenatal Exposure and Transgenerational Effects on Animals and Plants</b> Moderators: H. Derradji (SCK•CEN, B) & P. Smeesters (FANC, B)
	1. <b>Hussein el-Saghire (SCK•CEN, B)</b> , MELODI SRA and the Integration of High-Throughput Technologies as Central Players in Low Dose Research 2. <b>Gaëtan Gruel (IRSN, F)</b> , Gene Expression to Elucidate the Biological Impact of Low and Very Low Doses of Ionizing Radiation : a Hurdle Race 3. <b>Hubert Thierens (UGent, B)</b> , Radiogenomics and Adverse Effects in Radiotherapy Patients	1. <b>Nathalie Impens (SCK•CEN, B)</b> , How Know-how in Radioprotection Can Help Fine-tuning the Development of Radiopharmaceuticals and Vice-versa 2. <b>Dietmar Nosske (BfS, DE)</b> , Special Requirements in the Development of Biokinetic Models for Radiopharmaceuticals 3. <b>Bastian Breustedt (KIT, DE)</b> , Towards a DTPA-Therapy Model	1. <b>Patrick Smeesters (FANC, B)</b> , Current Knowledge on Radiation-induced Prenatal and Transgenerational Effects: a Precautionary Perspective 2. <b>Paul Jacquet (SCK•CEN, B)</b> , Developmental Effects and Chromosomal Instability after Irradiation of Early Mammalian Embryos 3. <b>Yuri Dubrova (LU, UK)</b> , The Dose and Dose-rate Effects of Paternal Irradiation on Transgenerational Instability in Mice: a Radiotherapy Connection 4. <b>Deborah Oughton (UMB, NO)</b> , A Worm's Eye View of Transgenerational Effects
<b>10 October 2013</b>			
9.00-10.30 hrs	Summary of Discussions of the 9 Parallel Sessions given on the Former Days (10 min/Session)		
10.30-11.00 hrs	Coffee Break & Poster Session		
11.00-13.00 hrs	Parallel Sessions		
	<b>Plenary: Radiation Protection Issues</b> Moderators: R. Benotmane (SCK•CEN, B) & P. Jacob (HMGU, DE)	<b>Heavy Ions: Space &amp; Radiotherapy</b> Moderators: M. Moreels (SCK•CEN, B), O. Angerer (ESA, NL) & W. De Vos (UGent, B)	
	1. <b>Andrea Hartwig (KIT, DE)</b> , Current Approaches in Risk-based Evaluation of Chemical Carcinogens Limits for Exposures to Carcinogens 2. <b>Mary Schubauer-Berigan (NIOHS, USA)</b> , Cancer Risk from Exposure to 100 mSv within 5 Years 3. <b>Paola Fattibene (ISS, I)</b> , Retrospective Dosimetry Concepts for Triage / Emergency Situations – Status and Future Needs	1. <b>Marjan Moreels (SCK•CEN, B)</b> , Charged Particles: Bridging the Gap between Earth and Space 2. <b>Gunther Reitz (DLR, DE)</b> , DLR Solar Particle Events in Aviation and Space 3. <b>Liliana Stolarczyk (IFJ, PL)</b> , Secondary Neutrons in Proton and Ion Therapy	
13.00-14.00 hrs	Lunch & Poster Session		
14.00-16.00 hrs	Parallel Sessions		
	<b>Systems Biology</b> Moderators: W.F. Morgan (PNNL, USA) & P. Monsieurs (SCK•CEN, B)	<b>Mechanisms and Underlying Effects of Cancer and Non-cancer Effects</b> Moderators: A. Aerts (SCK•CEN, B) & D.Averbeck (IRSN/CEA, F)	<b>Internal Emitters</b> Moderators: H. Engels (RIZIV/INAMI, B) & D. Laurier (IRSN, FR)
	1. <b>Wessel Van Wieringen (NL)</b> , Network Failure Modes of the Cellular Regulatory System in Cancer: a Statistical Perspective 2. <b>Peggy Sotiropoulou (UCL, B)</b> , Differential <i>in vivo</i> Responses of Distinct Epidermal Stem Cells to Low	1. <b>An Aerts (SCK•CEN, B)</b> , (i) Recommendations from the MELODI SRA (ii) Acute versus Chronic Effects: How Comparable are They? 2. <b>Soile Tapio (HMGU, DE)</b> , PPAR Alpha is a Novel Radiation Target in Exposed Human and Murine Cardiac Tissue	1. <b>John Harrison (PHE, UK)</b> , Health Effects of Internal Emitters: Dosimetry 2. <b>Margot Tirmache (ASN, F)</b> , Health Effects of Internal Emitters: Epidemiology 3. <b>Kai Rothman (PHE, UK)</b> , Comparison of Physical and

	Dose Irradiation 3. <b>Rodolfo Negri (I)</b> , The transcriptional Response to Irradiation: Time to Move the Focus from Cellular to Tissue Level	3. <b>Hussein el-Saghire (SCK•CEN, B)</b> , Gene Expression and Mechanistic Studies on Blood Cells after Exposure to Low Doses of Ionizing Radiation: <i>in vitro</i> and <i>in vivo</i> Human Studies 4. <b>Vanessa Bol (UCL, B)</b> , Evidence for a Direct Relationship between the Response to Irradiation and the Metabolic Profile of Tumor Cells	Biological Dosimetry for Internal Emitters
16.00-16.30 hrs	Coffee Break & Poster Session		
16.30-18.00 hrs	Summary of the Workshop – Closure of the Workshop 1. <b>Sarah Baatout (SCK•CEN, B)</b> , Scientific Conclusions of the Workshop 2. <b>Frank Hardeman (SCK•CEN, B)</b> , Closure of the Workshop		