



4<sup>th</sup> International MELODI Workshop,  
12-14 September 2012  
Hotel Presidentti, Helsinki, Finland

[www.melodi2012.org](http://www.melodi2012.org)

5 September 2012

## MELODI-2012 Programme including satellite events

<b>Tuesday 11 September</b>	
<b>Satellite event: DoReMi/MELODI Training &amp; Education Forum</b>	
<b>12:00 - 13:00</b>	<b>Registration</b>
<b>DoReMi/MELODI Training &amp; Education Forum</b>	
<i>Chair: Andrea Ottolenghi and Vere Smyth</i>	
<b>13:00 - 13:25</b>	Welcome and introduction to the Forum <i>Andrea Ottolenghi, Vere Smyth</i>
<b>THEME 1: EUROPEAN FRAMEWORK FOR SUPPORT OF E&amp;T</b>	
<b>13:25 - 13:50</b>	The role of MELODI in the development and implementation of E&T <i>Wolfgang Weiss</i>
<b>13:50 - 14:40</b>	E&T initiatives in other EURATOM platforms
<b>14:40 - 15:00</b>	EURATOM E&T approach for radiation protection <i>Annemarie Schmitt-Hannig</i>
<b>15:00 - 15:30</b>	Discussion
<b>15:30 - 16:00</b>	<i>Coffee break</i>
<b>THEME 2: STRUCTURE AND INTEGRATION FOR E&amp;T IN LOW-DOSE RESEARCH</b>	
<b>16:00 - 16:20</b>	Whom should we educate and train? Future careers of MSc radiobiology students <i>Klaus Trott</i>
<b>16:20 - 16:35</b>	The planned new MSc course in radiation sciences in Munich <i>Michael Atkinson</i>
<b>16:35 - 16:55</b>	Heraeus Physics School, Germany, and EURADOS activities <i>Werner Rühm</i>
<b>16:55 - 17:15</b>	ECTS and ERASMUS MUNDUS
<b>17:15 - 17:45</b>	Discussion
<b>17:45 - 18:00</b>	Wind-up
<b>18:00</b>	End of E&T Forum

For more detailed programme of the T&E Forum, see [here](#).

<b>16:00 - 19:30</b>	<b>MELODI General Assembly meeting (members only)</b>
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<b>MELODI-2012      Wednesday 12 September</b>	
<b>Day theme: "Low dose risk research - state of the art"</b>	
<b>08:00 - 09:00</b>	<b>Registration and poster set-up</b>
<b>Opening and introduction</b>	
<i>Chair: Sisko Salomaa</i>	
<b>09:00 - 09:30</b>	Welcome address
<b>09:30 - 10:20</b>	MELODI activities and the Strategic Research Agenda (SRA) <i>Dietrich Aeverbeck</i>
<b>10:20-10:30</b>	Orientation to the Workshop and to introduction to the Response system to be used
<b>10:30 - 11:00</b>	<b>Coffee break</b>
<b>Plenary session: Epidemiology</b>	
<i>Chairs: Peter Jacob and Anssi Auvinen</i>	
<b>11:00 - 11:30</b>	The latest update on atomic-bomb survivor studies <i>Koturo Ozasa</i>
<b>11:30 - 12:00</b>	Epidemiological studies on natural radiation and cancer risk <i>Richard Wakeford</i>
<b>12:00 - 12:30</b>	Review of radiation-exposed cohorts potentially available for molecular epidemiological studies <i>Elisabeth Cardis</i>
<b>12:30 - 13:30</b>	<b>Buffet lunch</b>
<b>13:30 - 14:00</b>	Radiation exposures from CT scans in childhood and subsequent risk of leukemia and brain tumours <i>Mark Pearce</i>
<b>Plenary session: Dose uncertainties</b>	
<i>Chairs: Wolfgang Weiss and Maarit Muikku</i>	
<b>14:00 - 14:20</b>	Uncertainties of risk estimates attributed to uncertainty in dosimetry <i>Liz Ainsbury</i>
<b>14:20 - 14:40</b>	Uncertainties in internal dose assessment <i>Matthew Puncher</i>
<b>14:40 - 15:00</b>	Uncertainties related to the microdosimetry of internal emitters <i>Imre Balásházy</i>
<b>15:00 - 15:30</b>	<b>Coffee break</b>
<b>Plenary session: Radiation protection issues</b>	
<i>Chair: Wolfgang Weiss and Maarit Muikku</i>	
<b>15:30 - 16:00</b>	Implications of cardiovascular disease risk for radiation protection? <i>Peter Jacob</i>



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<b>Breakout session 1: Discussing the SRA / State-of-the-art of science</b> <b>16:00 – 18:00</b>		
<b>Group A: Epidemiological approaches</b> <i>Moderator: Anssi Auvinen</i> <i>Rapporteur: Andrzej Wojcik</i>	<b>Group B: Cancer mechanisms and models</b> <i>Moderator: Kevin Prise</i> <i>Rapporteur: Michael Atkinson</i>	<b>Group C: Infrastructures and knowledge management</b> <i>Moderator: Laure Sabatier</i> <i>Rapporteur: Bernd Grosche</i>

<b>18:00 – 19:00</b>	<b><i>Break and Self-arranged travel to Helsinki City Hall</i></b>
<b>19:00 – 20:30</b>	<b><i>Reception at Helsinki City Hall</i></b>

<b>MELODI-2012 Thursday 13 September</b>	
<b>Day theme: “Emerging scientific challenges”</b>	
<b>Plenary session: Epigenetics and Systems Biology</b> <i>Chairs: Mats Harms-Ringdahl and Virpi Launonen</i>	
<b>09:00 – 09:30</b>	Epigenetic changes after radiation exposure <i>Olga Kovalchuk</i>
<b>09:30 – 10:00</b>	Epigenetic events and radiation exposure: Impacts on radiation risk estimation <i>Ranjit Chakraborty</i>
<b>10:00 – 10:30</b>	Modelling the responses of populations of cancer cells to therapeutic radiation exposure <i>David Fell</i>
<b>10:30 – 11:00</b>	<b><i>Coffee break</i></b>
<b>Plenary session: Biomarkers</b> <i>Chairs: Michael Atkinson and Carita Lindholm</i>	
<b>11:00 – 11:30</b>	Molecular markers in radiation-induced thyroid cancer <i>Horst Zitzelsberger</i>
<b>11:30 – 12:00</b>	Review of biomarkers that could be used for molecular epidemiological studies in radiation-exposed cohorts <i>Eileen Pernot</i>
<b>12:00 – 12:30</b>	Finding genetic susceptibility to radiation effects: Will GWA studies help? <i>Alice Sigurdson</i>
<b>12:30 – 13:30</b>	<b><i>Buffet lunch</i></b>
<b>Plenary lecture: Stem cells</b> <i>Chairs: Simon Bouffler and Eeva Salminen</i>	
<b>13:30 – 14:00</b>	Effects of low-dose ionizing radiation on stem cells <i>Guido Hildebrand</i>
<b>Reports from break-out session 1 (each 15 min + 5 min for discussion)</b> <i>Chairs: Simon Bouffler and Eeva Salminen</i>	
<b>14:00 – 14:20</b>	Group A: Epidemiological approaches: <i>Andrzej Wojcik</i>



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14:20 – 14:40	Group B: Cancer mechanisms and models: <i>Michael Atkinson</i>	
14:40 – 15:00	Group C: Infrastructure and knowledge management: <i>Bernd Grosche</i>	
15:00 – 16:00	<b>Coffee break and poster viewing</b>	
<b>Breakout session 2: Roadmap for research 16 - 18</b>		
<b>Group A: Biomarkers and biobanks</b> <i>Moderator: Sarah Baatout</i> <i>Rapporteur: Ulrike Kulka</i>	<b>Group B: Non-cancer effects</b> <i>Moderator: Jean-René Jourdain</i> <i>Rapporteur: Eeva Salminen</i>	<b>Group C: Low dose dosimetry and dose concept</b> <i>Moderator: Hans Rabus</i> <i>Rapporteur: Eric Blanchardon</i>
18:00 – 20:00	<b>DoReMi MB-EAB meeting (members only)</b>	

<b>MELODI-2012 Friday 14 September</b>	
<b>Day theme: “Integrating the research”</b>	
<b>Reports from breakout session 2 and T&amp;E Forum (15 min + 5 min for discussion)</b> <i>Chairs: Sisko Salomaa and Bernd Grosche</i>	
08:30 – 08:50	Group A: Biomarkers and biobanks <i>Ulrike Kulka</i>
08:50 – 09:10	Group B: Non-cancer effects <i>Eeva Salminen</i>
09:10 – 09:30	Group C: Low dose dosimetry and dose concept <i>Eric Blanchardon</i>
09:30 – 09:50	Report from T&E Forum (11 September) <i>Andrea Ottolenghi and Vere Smyth</i>
<b>MELODI Award Ceremony</b>	
09:50 – 10:10	MELODI Award speech: Integrative Radiation Biology Kristian Unger
<b>Highlights of Euratom projects</b> <i>Chairs: To be confirmed</i>	
10:10 – 10:20	CEREBRAD: Cognitive and cerebrovascular effects induced by low dose ionising radiation <i>Rafi Benotmane</i>
10:20 – 10:30	SOLO: Highlights of progress to date <i>Richard Haylock</i>



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10:30 - 11:00	<b>Coffee break</b>
11:00 - 11:10	DoReMi: Radiation induced premature senescence in endothelial cells, a system biology approach <i>Mats Harms-Ringdahl</i>
11:10 - 11:20	The SEDENTEXCT project on dental cone beam computed tomography: outcomes and impact <i>Christie Theodorakou</i>
11:20 - 11:30	ALLEGRO to ANDANTE: An application of radiotherapy data to low-dose radiation research <i>Andrea Ottolenghi</i>
11:30 - 11:40	EpiRadBio: Colon cancer risk among a-bomb survivors from multi-model inference with descriptive and mechanistic models <i>Christian Kaiser</i>
11:40 - 11:50	From CARDIORISK to PROCARDIO <i>Klaus Trott</i>
<b>Closing session</b> <i>Chairs: Wolfgang Weiss and Sisko Salomaa</i>	
12:00 - 12:30	<b>Workshop Summary</b> <i>Wolfgang Weiss</i>  Discussion
12:30	<b>End of Workshop</b>

12:30 - 13:30	<b>Lunch for Training event and STORE participants</b>
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<b>Satellite event: Training event by MELODI and Finnish Doctoral Programme in Environmental Health</b>	
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<b>UNSCEAR, BEIR VII and ICRP risk models and new developments</b> <i>Chairs: Peter Jacob and Anssi Auvinen</i>	
13:30 - 14:00	Radiation risk models for breast cancer <i>Markus Eidemüller</i>
14:00 - 14:30	Estimation of radiation risk of lung cancer <i>Koturo Ozasa</i>
14:30 - 15:00	Risk models for radiation-induced leukaemia <i>Richard Wakeford</i>
15:00 - 15:30	Questions and Discussion
15:30	End of Training Event

13.30 - 19.00	<b>STORE final meeting (members only)</b>
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