

DoReMi – Low Dose Research towards Multidisciplinary Integration

DoReMi Radiation Quality workshop

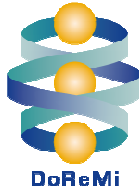
SCK-CEN Headquarters, Brussels. 9-10 July 2013

Av. Herrmann-Debrouxlaan 40
BE-1160 BRUSSELS
Belgium

Agenda

Tuesday 9 July

- 10:30 – 11:00 Coffee**
- 11:00 – 11:10 Welcome and introduction (Andrea Ottolenghi, UniPv, Pavia, Italy, and Peter O'Neill Gray Institute, Oxford, UK)
- Session 1. Radiation quality as a cross-cutting issue:**
- 11:10 – 11:40 Key note lecture 1: what is radiation quality? (Dudley Goodhead, UK)
- 11:40 – 12:10 Key note lecture 2: Current approach for radiation quality in radiation protection (Hans Menzel, ICRP)
- Session 2. Radiation quality in current research programmes:**
- 12:10 – 12:30 Radiation quality as a cross-cutting component in DoReMi workpackage 5 (Shape of the curve) (Christophe Badie, PHE, Didcot, UK)
- 12:30 – 12:50 Radiation quality as a cross-cutting component in DoReMi workpackage 6 (Individual sensitivity), (Mike Atkinson, HMGU, Munich, Germany)
- 12:50 – 13:10 Radiation quality as a cross-cutting component in DoReMi workpackage 7 (Non-cancer effects), (Rafi Benotmane, SCK-CEN, Mol, Belgium)
- 13:10 – 14:10 Lunch**
- 14:10 – 14:25 Radiation quality coverage in EU research infrastructures (Laure Sabatier, CEA, Paris, France)
- 14:25 – 14:40 Radiation quality in the DoReMi TRA and MELODI SRA (Dietrich Averbeck, IRSN, Paris, France)



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Session 3 Probing the sub-disciplines: what do we know now? – what do we need to know?

- 14:40 – 15:10 The physics: (Michael Dingfelder Greenville, North Carolina, US)
15:10 – 15:40 The chemistry: (Jean-Luc Ravanat CEA, Grenoble, France)
15:40 – 16:10 Modelling: (Werner Friedland, HMGU, Munich, Germany)

16:10 – 16:30 Coffee

Session 3 continued

- 16:30 – 17:00 DNA damage response in the context of chromatin and radiation quality: (Burkhard Jakob, GSI, Darmstadt, Germany)
17:00 -17:30 Epigenetics II RNA interference - mi-RNA –RNA: (Simone Moertl, HMGU, Munich, Germany)
17:30 – 18:00 Omics: proteome, transcriptome, pathways: (Sally Amundson, Columbia Univ., NYC, USA)

20:00 Dinner (venue: Aux Armes de Bruxelles, Rue des Bouchers, 13 - BRUXELLES 1000
<http://www.auxarmesdebruxelles.com>)

Wednesday 10 July

Start 9:00

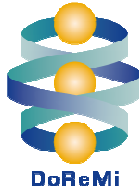
Session 3 continued

- 9:00 – 9:30 Extra/intra signalling: 3D studies: (Kevin Prise, QUB, Belfast, UK)
9:30 – 10:00 Animal studies: (Christophe Badie, PHE, Didcot, UK)
10:00 – 10:30 Non cancer effects: (Rafi Benotmane, SCK-CEN, Mol, Belgium)

10:30 – 11:00 Coffee

Session 4: Radiation quality as a probe to understand radiobiology and biology

- 11:00 – 11:30 NASA Model for cancer risk to Space Radiation: (Frank Cucinotta, NASA, Houston, USA)
11:30 – 12:00 Surrogate markers of radiation quality – chromosomal effects: (Mark Hill, Gray Institute, Oxford, UK)



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12:30 – 13:00 Surrogate markers of radiation quality –microRNA (Sally Amundson, Columbia Univ., NYC, USA)

13:00 – 14:00 **Lunch**

Session 5: Round table discussion addressing the key questions:

14:00 – 15:30 Discussion introduced and led by Andrea Ottolenghi, and Vere Smyth, UniPv, Pavia, Italy

- What are the outstanding issues?
- How important is the understanding of the effects of radiation quality to radiation protection risk assessment?
- How important is the understanding of the effects of radiation quality to the basic science of radiobiology/biology?
- How well is current research addressing radiation quality?
- What new studies are required to address the issues outlined above?
- What are the priorities for short term and long term research programmes?
- What are the implications for the MELODI Strategic Research Agenda?

15:30 – 16:00 **Coffee**

Session 6. Wind up and conclusion: the way forward

16:00 – 16:30 Final discussion (leader Andrea Ottolenghi, UniPv, Pavia, Italy)

Publication/s?

New projects?

Action list?

16:30 **End of workshop**