

Kids 1 RP Science

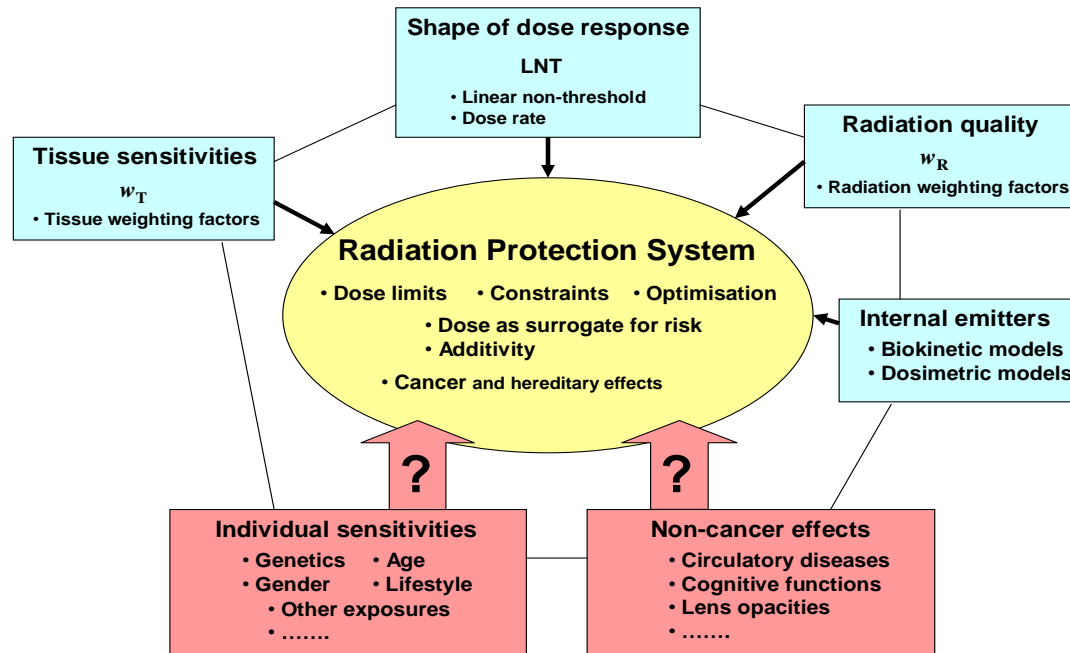
We know a lot and any future research requires strategic planning and networking

A European perspective
Wolfgang Weiss

1. Low dose effects and risk

High
Level
Expert
Group

How robust is the system of radiation protection and risk assessment?

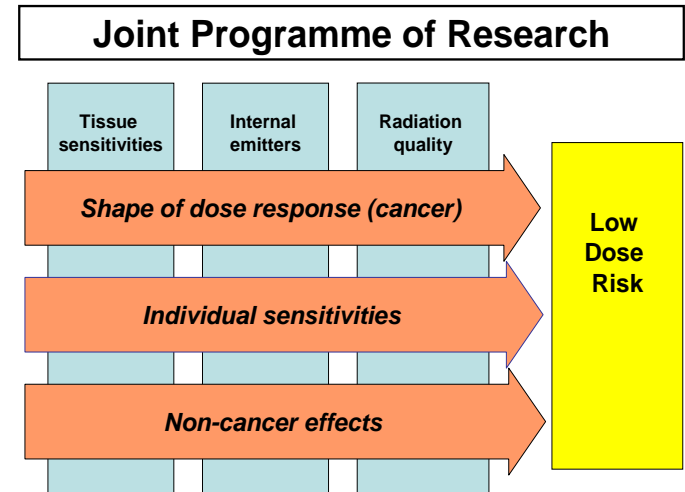


See Cordis for EC Report
EUR 23884

www.melodi-online.eu

MELODI has developed a long-term Strategic Research Agenda for the quantification of cancer and non-cancer risk at low doses and low dose rates (www.melodi-online.eu)

Health effects to be addressed:
Cancer – including secondary cancers;
Cardiovascular and neurological effects as well as effects on the central nervous system (CNS);
Lens opacity.



**Specific Questions: Protection of children,
risk of external vs. internal exposures**

2. Radioecology: Behavior of Radionuclides in the Environment and their Pathways to Humans.

- **Transport/behavior of long-lived radionuclides (C-14, Cl-36, I-129 and the other long-lived anionic radionuclides, Pb-210, Ra-226, Th-232, Uranium- & Plutonium-Isotopes, Am-241) relevant for the assessment of**
 - **long-term safety of waste depositories;**
 - **legacies of uranium mining and milling.**
- **Radioecology of aqueous ecosystems: marine, sweet water and surface near groundwater.**
- **Interaction of pedo- and hydrosphere with respect to exposure pathways and transport processes.**
- **Natural analogues of radioactive waste in geological formations.**
- **Transport and availability of actinides in the Chernobyl exclusion zone.**
- **Bookkeeping of long-lived man-made radionuclides as measures of sustainability of human actions.**