The Workshop on Adverse Outcome Pathways (AOP) for radiation effects (will be held virtually from 12 to 16 April 2021 (every afternoon CET time).

The workshop is organized by the Institute of Radioprotection and Nuclear Safety (IRSN) under the mandate of MELODI, in collaboration with the ALLIANCE, and with the contribution of OECD/NEA/CRPRR/HLG-LDR, EURADOS and Health Canada.

More information about the workshop, including the program and registration, can be found at [https://melodiallianceaopworkshop.vimeet.events/en/](https://melodiallianceaopworkshop.vimeet.events/en/)

**Workshop objective**

The concept of AOP is a new concept for radioprotection research that has originally been proposed and developed for the assessment of the toxicity of chemical stressors with an overall goal to aid regulation based off mechanistic knowledge of biological effects. Promoted and coordinated by the OECD, the AOP concept has been considered of value to radioprotection research that can help reconcile knowledge within radiation biology and epidemiology. The workshop’s main objective is to enhance awareness of and trigger interest in the AOP concept among those involved in radioprotection research. We therefore plan an in-depth immersion in the topic starting from the introduction to detailed coverage of the concept and to hands-on sessions during which specific AOPs will be proposed.

**Program at a Glance**

Session 1: Refresher Session: principles of AOPs arranged by the OECD AOP group – Monday 12 April (13h00-17h30)

Session 2: Use of AOP for risk assessment and risk management – Tuesday 13 April (14h00-16h00)

Session 3: Existing radiation AOPs and what AOPs need to be developed next – Tuesday 13 April (16h15-18h00)

Session 4: AOPs for chemicals and IR: what are the similarities and differences – Wednesday 14 April (14h30-16h15)

Session 5: Usefulness of AOP to identify knowledge gaps and define research priorities - Wednesday 14 April (16h30-18h00)

Session 6: Systems Biology approach as a tool for developing AOPs - Thursday 15 April (14h30-17h30)
Hands-on sessions within Working Groups – Tuesday 12 to Thursday 15 April (13h00-14h30) + Friday 16 April (13h00-17h30)

Discussions about the development of specific AOPs will be proposed for three relevant adverse outcomes for radiation effects depending on the interest of attendees (cancer, non-cancer, human and ecosystems relevance).

For any question related to this workshop you can contact the local organizing committee @ aop2021@irsn.fr

**Scientific committee**

ADAM-GUILLERMIN Christelle (Local organizing committee, IRSN)
ARMANT Olivier (Local organizing committee, IRSN)
AUDOUZE Karine (Université Paris Descartes)
BARQUINERO Francesc (Autonomous University of Barcelona)
CHAUHAN Vinita (Health Canada)
COOL Donald (EPRI)
GARNIER-LAPLACE Jacqueline (OECD/NEA)
GILBIN Rodolphe (Local organizing committee, IRSN)
GOMOLKA Maria (BfS)
GUEGUEN Yann (Local organizing committee, IRSN)
HAMADA Nobuyuki (CRIEPI)
HOREMANS Nele (SCK.CEN)
KAISER Christian (Helmholtz-Muenchen)
KLOKOV Dmitry (Local organizing committee, IRSN)
LAURENT Olivier (Local organizing committee, IRSN)
LAURIER Dominique (IRSN, OECD/NEA/HLG-LDR)
LUUKKONEN Jukka (University of East Finland)
MAGDALINI Sachana (OECD)
QUINTENS Roel (SCK-CEN)
ROY Laurence (Local organizing committee, IRSN)
TOLLEFSEN Knut-Erik (NIVA CERAD)
WOJCIK Andrzej (Stockholm University)