How studies of background radiation and childhood cancer can improve our understanding of the effects of low-dose ionizing radiation.

SPEAKERS

Prof. Richard Wakeford
Centre for Occupational and Environmental Health
Institute of Population Health
University of Manchester, UK

Dr. Ausrele Kesminiene
International Agency for Research on Cancer
Section of Environment and Radiation
World Health Organization, France

Prof. Mark Little
National Cancer Institute
Division of Cancer Epidemiology and Genetics
Radiation Epidemiology Branch, Bethesda, Maryland, USA

Prof. Ole Raaschou-Nielsen
Institute of Cancer Epidemiology
Danish Cancer Society, Denmark

Dr. Gerry Kendall
Cancer Epidemiology Unit
Nuffield Department of Population Health
University of Oxford, UK

Dr. Jacqueline Clavel
Dr. Denis Héamon
French Institute of Health and Medical Research (INSERM) Paris Descartes University, France

Prof. Anssi Auvinen
Dr. Atte Nikkilä
Epidemiology/Health Sciences
Faculty of Social Sciences
University of Tampere, Finland

PD Dr. Claudia Spix
German Childhood Cancer Registry
University Medical Center Mainz, Germany

Dr. Ben Spycher
Institute of Social and Preventive Medicine
University of Bern, Switzerland

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Register by April 30 at
http://www.ispm.unibe.ch/about_us/events/radiation

Venue
ISPM Bern
Seminar Room
Mittelstrasse 43
3012 Bern
Switzerland

Contact
antonella.mazzeiabba@ispm.unibe.ch
Phone +41 31 631 5516
www.ispm.ch
It is well established from studies of atomic bomb survivors and other exposed groups that medium to high doses of ionising radiation can induce cancer. Furthermore, children are known to be more sensitive to radiation. However, the direct epidemiological investigation of cancer risks associated with low dose radiation (<100 mSv) remains a major challenge.

Recently, several large record-based studies have investigated associations between the risk of childhood cancer and exposure to natural background radiation. However, the evidence from these studies is mixed.

This scientific workshop will bring together researchers in the field and interested parties from around the world to discuss how epidemiological studies of exposure to background radiation and risk of childhood cancer can improve our understanding of the effects of low-dose ionising radiation.

The first day is organized as plenary sessions followed by a panel discussion that will provide the opportunity to highlight the methodological challenges and discuss the limitations of previous studies.

The second day will be held as round table discussions to debate methodological advances and initiate a multi-national collaboration between the research study groups. The study teams of the recent epidemiological studies will be represented, but the session is open to all interested people.

For more information please contact: antonella.mazzeiabba@ispm.unibe.ch

### Program

#### Tuesday, 5 June (room 24)

13.00 Welcome & setting the scene  
Ben Spycher

**Broader context**  
**Chair: Matthias Egger**

13:15 Epidemiological evidence of cancer risks following exposure to ionising radiation in childhood  
Richard Wakeford

13:45 Childhood leukaemia and CT scans: Overview of recent epidemiological studies  
Ausrele Kesminiene

14:15 Methodological challenges of epidemiological research on the effects of natural background radiation  
Mark Little

14.45 Coffee Break

**Recent studies on background radiation and childhood cancer**  
**Chair: Claudia Kühni**

15.15 Indoor radon and childhood leukaemia  
Ole Raaschou-Nielsen

15.35 A record-based case-control study of natural background radiation and the incidence of childhood leukaemia and other cancers in Great Britain during 1980-2006  
Gerry Kendall

15:55 Background ionizing radiation and the risk of childhood cancer: a census-based nationwide cohort study  
Ben Spycher

16:15 Coffee break

16.30 Residential Exposure to Natural Background Radiation and Risk of Childhood Leukaemia in France, 1990-2009  
Jacqueline Clavel / Denis Hémon

16.50 Background radiation and childhood leukemia: A nationwide register-based case-control study  
Anssi Auvinen / Atte Nikkilä

17.10 Background gamma radiation and childhood cancer in Germany: an ecological study  
Claudia Spix / Peter Kaatsch

**Panel discussion**  
**Chair: Richard Wakeford**

17:30 What have we learnt?

19:30 Dinner

#### Wednesday, 6 June (room 220)

**Round table discussion**  
**Chairs: Anssi Auvinen, Ben Spycher**

8:30 Open questions and methodological challenges

10:00 Coffee break

10:30 Possibilities and scope of future collaboration

12:00 Summing up

12:30 Stand-up Lunch / Farewell