

Information for applicants

The course is open to:

- ✓ MSc students and PhD students (registered at an university within the EU)
- ✓ Researcher (working in the EU)
- ✓ maximum 12 participants

There is **no course fee**. **Accommodation** will be arranged and financially supported in a hotel nearby (double rooms). No other financial support will be provided.

For application submit:

- Letter of application
- CV with a description of the scientific career
- Letter of support from the supervisor / head of laboratory (only for students)

Please send your application by email to Dr. Maria Gomolka at mgomolka@bfs.de.

Deadline for application is November 17th 2019.

Information confirming the acceptance will be sent by 22nd November 2019.

For more information please contact:

Dr. Maria Gomolka
Federal Office for Radiation Protection
Department Radiation Protection and Health
Section Radiation Biology
mgomolka@bfs.de

See you in Munich!



Venue

Bundesamt für Strahlenschutz
Ingolstädter Landstraße 1
85764 Oberschleißheim
Germany



Date: January 20–31 2020

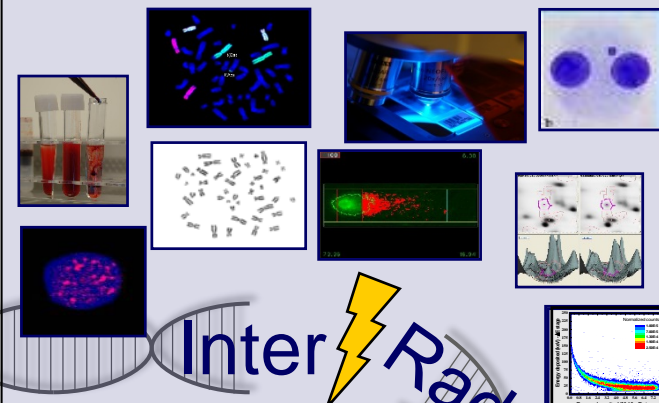


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European Training Course in Radiation Research



Interdisciplinary Radiation Research



Organised by the
Federal Office for Radiation Protection
Germany

Sponsored by the
'CONCERT-European Joint Programme for the
Integration of Radiation Protection Research'



Purpose



The course will introduce various disciplines contributing to radiation research. **Insights to physical, chemical, biological and epidemiological fundamentals** in radiation research will be provided.

These basic principles will be completed by presenting interdisciplinary approaches like **molecular epidemiology, biobanking, and micro- and nanodosimetry**.

The course will help to sensitize to the feasibility, potential and limitations of experimental assays and the need for implementation of **multidisciplinary research approaches**.



Bundesamt für Strahlenschutz

Lectures

- Basics in Radiation Physics
- Basics in Radiation Biology
- Basics in Radiation
- Epidemiology
- Micro- and Nanodosimetry
- Molecular Epidemiology
- Applied Radiation Science
- Basics in Statistics

Additionally

- 1 Day Excursion
- Certificate

Lessons will be given by expert scientists from the Federal Office for Radiation Protection (BfS), the Physikalisch-Technische Bundesanstalt Braunschweig (PTB), the University of Zürich and the Helmholtz Center Munich.

Practical Trainings

- **Biological assays**
to quantify cellular radiation damage / repair / misrepair
- ☞ **Multi-Foci Repair assays**
(e.g. gammaH2AX, 53BP1, ...)
- ☞ **Cytogenetic assays**

Demonstrations

- **Physical detection**
to trace radioactivity
- ☞ in food products
- ☞ in the environment
- ☞ in the human body
- **Further demos in**
- ☞ Proteomics
- ☞ Biobank
- ☞ mFISH
- ☞ Emergency Preparedness



| Verantwortung für Mensch und Umwelt |

