

Information

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. 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 April 23rd 2021.

Information confirming the acceptance will be sent by April 30th 2021.

For more information please contact:

Dr. Maria Gomolka
Federal Office for Radiation Protection
Radiation Biology | WR1
mgomolka@bfs.de

Venue

Bundesamt für Strahlenschutz
Ingolstädter Landstraße 1
85764 Neuherberg
Germany



Imprint

Bundesamt für Strahlenschutz
E-Mail: mgomolka@bfs.de

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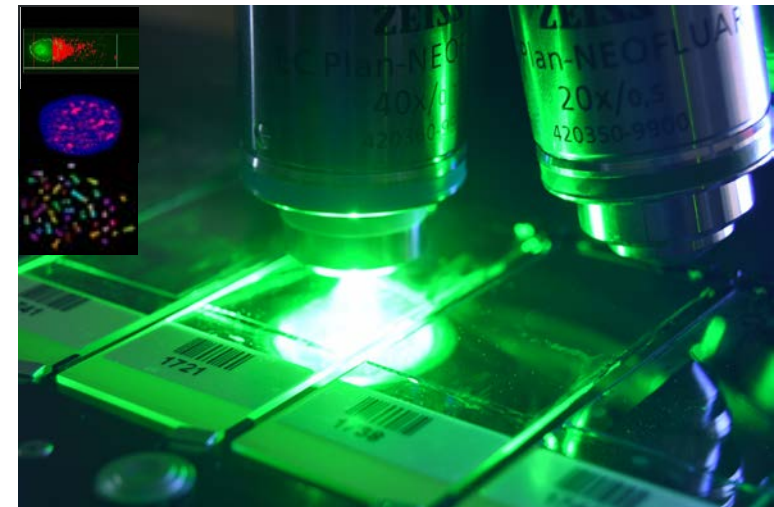


Bundesamt
für Strahlenschutz



Interdisciplinary Radiation Research on Radon -InterRad

June 14-25, 2021



European Training Course
funded by the **RadoNorm** project and organised
by the Federal Office for Radiation Protection/ Germany.



This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 900009.

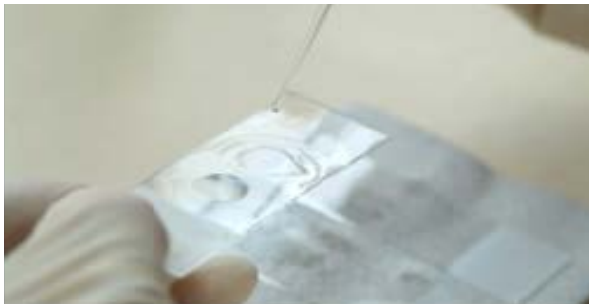
Purpose

The course will introduce various disciplines contributing to radiation research on radon.

Insights to physical, biological and epidemiological fundamentals in radiation research with focus on radon will be provided.

These basic principles will be completed by presenting interdisciplinary approaches like

- **molecular epidemiology,**
- **biobanking,**
- **micro-/ nanodosimetry and**
- **radon risk assessment.**



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

Lectures

- Basics in Radiation Physics
- Micro- and Nanodosimetry
- Internal Dosimetry of Radon
- Basics in Radiation Epidemiology
- Basics in Radiation Biology
- Molecular Epidemiology
- Radiation Risk assessment
- International Radon Regulations



Lessons will be given by expert scientists from the

- Federal Office for Radiation Protection
- Centre for Energy Research Budapest,
- the University of Zürich and the Helmholtz Center Munich.

Additionally

- 1 Day Excursion
- Certificate

Practical Trainings

Biological assays

to quantify

- cellular radiation damage
- repair
- misrepair

using

Multi-Foci Repair assays

(e.g. gammaH2AX, 53BP1, ...)

Cytogenetic assays



Demonstrations

Physical detection

to trace radioactivity and radon

- in the environment
- in the human body
- in food products

Further demos in

- Advanced biological techniques like mFISH, Proteomics
- Exosome Research
- Biobanking of the German National Cohort