

Open-Minded

We are one of the youngest universities in Germany and think in terms of possibilities, not limitations. In the heart of the Ruhrregion, we develop ideas of the future at our 11 faculties. We are strong in research and teaching, live diversity, support potential and are highly committed to an educational equality that has earned this name.

**The University of Duisburg-Essen offers within the
DFG-funded Research Training Group 1739 (GRK1739)**

1 PhD position (f/m)

(salary according TV-L E13 65%)

The GRK1739 "*Molecular determinants of the cellular radiation response and their potential for response modulation*" offers outstanding interdisciplinary scientific training and research opportunities for graduates of life sciences and medicine with interest in basic and translational research. Although DNA is the critical target for the lethal effects of ionizing radiation, there is increasing evidence that interactions with signals from the microenvironment, e.g., growth factors, nutrients, extracellular matrix proteins, and stromal cells crucially affect radiation sensitivity. In our research we aim to advance the dissection of the role of novel players in the cellular responses to ionizing radiation. These players include the membrane protein Caveolin 1 (Project of PD D. Klein). The project focuses on the interaction of Cav1 with DNA damage-induced signaling networks and cell-fate decisions. We will analyze differences in the impact of this molecule on the response of tumor and normal tissues to ionizing radiation, and explore the biological consequences of combining ionizing radiation with molecularly targeted drugs in clinically relevant *in vitro* and *in vivo* models. These studies will generate a molecular basis for the future therapeutic exploitation of tumor-microenvironment interactions to modulate the radiation response.

More details about the research training group can be found at: <http://www.uni-due.de/med/forschung/grk1739/index.shtml>

Applicants should hold a Master Degree or equivalent in e.g. Molecular Biology, Biochemistry, Biophysics, or Cell Biology. Candidates are selected on the basis of excellent performance in their studies and their motivation. The position will start in October 2016 and is funded for three years.

Please send the filled in application form (which can be found at: <https://www.uni-due.de/med/forschung/grk1739/application-form.php>) together with a cover letter, your CV and degree certificates as **one pdf-file as soon as possible the latest of 30th of August, 2016** to:

Coordination Research Training group 1739

E-Mail: ivonne.schulte@uk-essen.de and
diana.klein@uk-essen.de

Incomplete applications or submissions only sent to the principal investigators cannot be considered. Interviews will be presumably held until 15th of September 16, 2016.

The University Duisburg-Essen aims at promoting the diversity of its members (see <http://www.uni-due.de/diversity/international.shtml>). Applications from disabled or equivalents according to § 2 Abs. 3 SGB IX are encouraged.

The University Duisburg-Essen has been awarded for its effort to promote gender equality with the "Total-E-Quality-Award". It aims at increasing the share of women in the scientific personnel and therefore explicitly encourages women to apply. Women will be preferentially considered when equally qualified according to the state equality law.