

Düsseldorf School of Oncology (DSO)
of the University Cancer Center (Center for integrated Oncology Düsseldorf)
and the Medical Faculty
at the Heinrich Heine University Düsseldorf
allocates (for initially three years) positions for

3 PhD-students (65% TV-L E13)

on the network program with the subject

SPATIAL: Systematic Phenotyping to Analyse Tumour-Immune interActions in Liquid and solid malignancies

The network project is coordinated by **Prof. Sascha Dietrich** at the Department of Hematology, Oncology and Clinical Immunology.

The research priorities of the network are as follows.

1. Prof. Dr. med. Sascha Dietrich, Peter-Martin Bruch

Interaction of Lymphoma and Immune cells: Morphologic and phenotypic effects of *ex vivo* drug perturbation

We aim to investigate drug induced changes on the interaction between tumor and microenvironmental cells. The focus will be on T cell infiltration in Lymphoma models and treatment with bispecific antibodies.

Contact: Peter-Martin.Bruch@med.uni-duesseldorf.de

2. Dr. rer. nat. Anne Theres Schneider, Prof. Dr. med. Christoph Roderburg, Prof. Dr. med. Tom Lüdde PhD

Spatial Immune-Interaction across hepato-biliary cancers

We aim to characterize immune signatures in the tissue microenvironment that indicate response to treatment with checkpoint inhibitors and/ or disease relapse after tumor resection in hepatobiliary cancers.

Contact: Ute.Albrecht@med.uni-duesseldorf.de

3. Prof. Dr. med. Irene Esposito, Dr. med. Maximilian Seidl

Spatial immunomodulation in gastroenteropancreatic neuroendocrine tumors and draining lymph nodes

We aim to identify patterns of tumor-dependent immunomodulation between the perception site – the draining lymph node – and the effector site – the primary tumor tissue in gastroenteropancreatic neuroendocrine tumors.

Contact: Maximilian.Seidl@med.uni-duesseldorf.de

The doctoral students will be integrated within the structured doctoral program of the Düsseldorf School of Oncology (DSO; <http://www.hhu.de/dso>), which offers a three-semester lecture series on oncology, work-in-progress seminars and annual retreats.

The network is focused on translating multiparametric immunofluorescence, which is currently mostly used in basic research, into translational and, prospectively, clinical application. A strong background in molecular biology, cell biology or histology is desirable but more important are dedication to science, motivation and teamwork. Applicants should have a master degree in biology, biochemistry, molecular medicine, etc.

Interested candidates should send their application by **e-mail** to one of the above-mentioned project managers.

Please enclose the following documents in **one** PDF file:

1. Letter of motivation
2. CV
3. Short description of the research interests and acquired techniques
4. Letter of recommendation and / or the address (including telephone number and e-mail address) from 1-2 references
5. Certificates