Core Facilities – Technologies, equipment and expertise for ambitious research goals

The IZKF provides valuable resources for a cost effective and high-quality research environment by operating:

- Brain Imaging Facility
- Genomics Facility
- Immunohistochemistry Facility and Confocal Microscopy Facility
- Proteomics Facility
- Transgenic Service
- Two-Photon Imaging Facility
- Flow Cytometry Facility

Multiple technologies and state-of-the-art equipment are available for all researchers of the Faculty of Medicine. Experienced technology experts provide services at any stage of the research process, including experimental design, method development, sample work-up and data interpretation on a partly cost recovery basis.

Dr. Silke-Christine Ensslen
Immunohistochemistry Facility
elevator C3/C4 l 3rd floor l corridor 43 l room 19
Pauwelsstrasse 30, 52074 Aachen
Tel.: +49 241 80 80406
sensslen@ukaachen.de

Karen De Bruyne, M.A.
IZKF Scientific Coordinating Office
Pauwelsstraße 30 l D-52074 Aachen
Elevator D5 l 4th floor l room 44
+49 (241) 80 80034 l izkf@ukaachen.de

Karen De Bruyne, M.A.
IZKF Scientific Coordinating Office
Pauwelsstraße 30 l D-52074 Aachen
Elevator D5 l 4th floor l room 44
+49 (241) 80 80034 l izkf@ukaachen.de
Why to use Immunohistochemistry Facility and how to use it to your advantage?

Histological studies are used in many fields such as research, diagnosis, and education to visualize the molecular and structural components of tissues and cells and to detect structural integrity or alterations of the integrity in diseased tissue.

A series of technical processes are necessary for the preparation of tissue samples for microscopic studies. These involve fixation, processing, embedding, sectioning and staining. The staining result is not only dependent on the chemical composition of the tissue but also on proper fixation and processing of tissue.

Besides classical histological staining, immunohistological staining is widely used in diagnosis and basic research to characterize cells and tissues. The use of antibodies can give information about the presence of certain cell types in a tissue section. Furthermore, specific antibodies are used to identify proliferating or apoptotic cells and to reveal the expression and localization of proteins such as transcription factors, receptors and signal molecules.

Our Immunohistochemistry Facility offers competent guidance and support in planning and conduction of histological and immunohistological experiments.

Users of the facility can order all services for a fee. They can also use the equipment for a fee to perform their operations themselves.

To achieve high-quality results in histology or immunohistology staining, the method of tissue preparation and fixation is very important! Therefore we would like to invite you to use our pre-experimental consultation before you start your experiment.

What services do we offer?

• pre-experimental consultation
• support in excision and preparation of tissue samples
• automated specimen processing
• conventional paraffin processing
• sectioning of tissue samples (paraffin and cryostat)
• histological staining (H&E, EvG, Giemsa, PAS etc.)
• direct and indirect immunohistological staining
• testing of antibodies (according to prior agreement)
• microscopy and documentation (according to prior agreement)