

***Title of module***

Modular Advanced Practical and Seminar  
in the Focal Point Programme  
"Molecular Medicine" VZ: 185780, 183781  
**„Cell death mechanisms in retinal diseases"**

***Credit points***

4

***Available in semester(s)***

1

***Hours per week***

5.25

***Compact course***



***Lecturer(s)***

S. Joachim

***Teaching methods***

Two weeks advanced laboratory course with an integrated seminar, one of four lab courses to be completed in the first term

***Evaluation of learning progress***

Active participation in the laboratory tasks and seminar, feedback during the experiment

***Mode of examination***

Assessment of active and successful participation in the practical (50%) and a written project report (50%)

***Learning objectives***

The students will learn about pathomechanisms in glaucoma. These mechanisms will be studied in vitro, for example in a retinal organ culture system. Different markers for retinal cell types, apoptosis or the immune system will be investigated via immunohistochemistry and Western blot.

***Soft skills***

Documentation of workflow and results  
Presentation of scientific publications

***Contents of module***

Immunohistochemistry  
Western blot  
Organ culture