

*Title of module*

Special Lecture in the Focal Point Programme  
"Molecular Medicine" VZ: 209 040  
"Virology for students of natural science"

*Credit points*

5

*Available in semester(s)*

2

*Hours per week*

2

*Compact course*



*Lecturer(s)*

Prof. Dr. M. Tenbusch, Dr. A. Stang, Dr. R. Kohlmann, Dr. B. Grewe, Dr. G. Nabi, Dr. V. Temchura

*Teaching methods*

Lecture: 2 hours per week

*Evaluation of learning progress*

Active participation in lectures

*Mode of examination*

45 min end-of-term written exam

*Learning objectives*

The students will get acquainted with relevant topics of virology. Aspects of the course are virus families and their induced pathology particularly in humans. Furthermore, the students will obtain knowledge how viruses interact on molecular and immunological level with their environment or hosts.

*Soft skills*

*Contents of module*

Topics covered:

1. Virus structure, pathogenesis, working methods, clinical diagnostics
2. Respiratory infections (Influenza, RSV, Adenovirus)
3. Herpesviruses / viral immune escape strategies
4. Viral hepatitis
5. Ecology and evolution of viruses
6. Intestinal infections (Rotavirus, Adenovirus, Calicivirus, Norwalk)
7. Viral diseases of children
  
8. Viral oncogenesis
  
9. Viral zoonoses / Häorrhagic viruses
  
10. HIV part 1
11. HIV part 2
  
12. Prions and security of blood products