

Compact course: Immunology - *ONLINE COURSE OE02*

This course conveys comprehensive knowledge for immunology. The course is suitable for beginners as well as for intermediate learners, who wish to refresh and extend their knowledge. The course starts with fundamentals of immunology and continues with details on the innate and adaptive immunity. On this basis, important immunological processes are discussed and therapeutic concepts for immunopathological diseases are presented. Common laboratory techniques in immunobiology complement the course program. Interspersed exercises assist comprehension of complex immunological processes.

The course focuses mainly on:

- **Fundamentals of immunology**
 - Composition of the immune system
 - Immune homeostasis
- **Innate immunity**
 - Innate receptors
 - Innate immune cell populations
 - Inflammation
- **Adaptive immunity**
 - Origin of adaptive receptors (antibody, TCR)
 - Antigen presentation (incl. MHC)
 - B cell and T cell subpopulations
 - Antibody isotypes
 - Immunological memory
 - Lymphocyte maturation
- **Infection and immunity**
- **Vaccination**
- **Hyperreactivity of the immune system (incl. allergy, autoimmunity)**
- **Tumor immunology**
- **Immunotherapeutic concepts**

No special previous knowledge is required for this course.

Discussion of additional / customized topics is possible.

Duration: 3 days (beginning: 8:30 a.m. - end: 3:30 p.m.)

Course fee: € 975,- (plus 19% VAT) incl. work materials, course documentation, confirmation of participation including detailed course contents.

Optional short examination: On demand, a short exam can be taken subsequently to the course. The examination fee is € 35,00 (plus 19% VAT) and is not included in the participation fee.

The examination will be held after the end of the course (duration approx. 20 minutes). Registration for the examination is possible together with booking the course or also during the course.

LAB-ACADEMY

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