

BASIC IMMUNOPATHOLOGY

Elective subject for 2nd-5th year students of the Szent-Györgyi Albert Medical School.

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Course code: AOK-OASZV171 (2nd-4th year); AOK-KA10231 (5th year)

Course credit: 1

Course hours per semester: 1

Prerequisite of registration: Previous completion or simultaneous studying of Immunology (AOK-KUA101 or AOK-OAK061)

The aim of the subject: Teaching fundamentals of immunopathology necessary for medical doctors to facilitate understanding of the immunological background and pathomechanisms of certain pathological states and diseases as well as the bases of immunotherapeutic interventions and clinical immunology

Method: lectures (7 x 2 hours)

Topics of the lectures:

1. **Introduction to immunopathology.** Transplantation immunology: transplantation antigens, allogeneic recognition, effector mechanisms of graft rejection
2. **Immunological aspects of organ transplantation.** Immunology of bone marrow transplantation: graft-versus-host disease. Immunological aspects of xenogeneic transplantation. Immunosuppressive therapy
3. **Histocompatibility testing.** Immunological investigations before and after transplantation.
4. **Reproductive immunology**
5. **Tumor immunology:** tumor antigens, anti-tumor immune responses. Evasion of immune responses by tumors. Immunotherapy for tumors
6. **Immunological tolerance.** Self tolerance: central and peripheral tolerance. Mechanisms of T and B cell tolerance
7. **Pathomechanisms of autoimmunity:** failure of self tolerance, genetic factors, role of infections, other factors; effector mechanisms. Immunological bases of systemic and organ-specific autoimmune diseases

Criteria for completing the course:

Attendance of minimum 5 of 7 lessons (>70%).

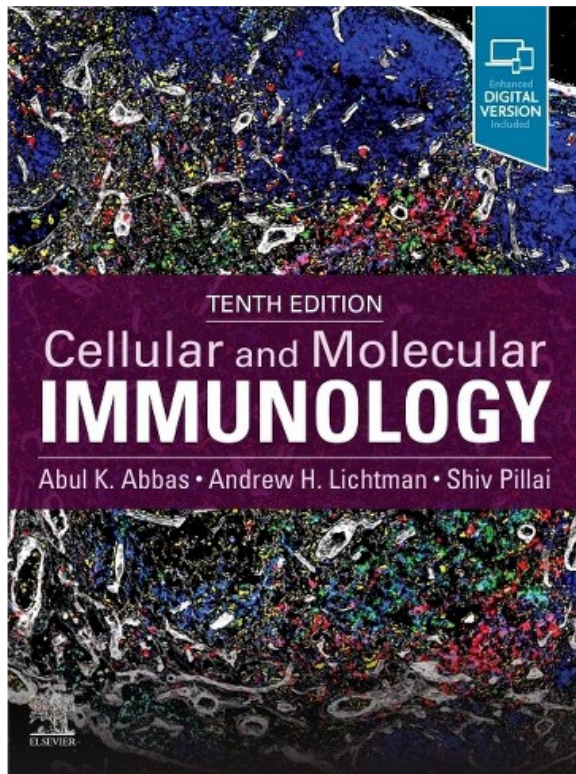
Examination:

End semester examination (five-grade mark); written multiple choice test exam.

Compulsory literature:

Lecture ppts uploaded to Coospace

Recommended literature:



Cellular and Molecular Immunology (10th ed.)

Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai
(eds.)

Elsevier, Philadelphia, USA, 2021.

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