Academic year: 2017/2018
1st Semester

Programme: **Medicine Gr.2**		course: 3rd year
Subject**: Immunology**	Seminar hours: **30 hours**	
Place of the seminars: **Theoretical Building Nr. 2 seminar room**	Course coordinators: **Dr. Tamás Bíró**	type: **full time**/part time

Week	Date	Schedule	Topic	Place	Teacher (name/department)
1. week	*09.15*	*10:00-12:00*	**Elements of the immune system and their role in defense against pathogens. The structure of lymphoid tissues and organs.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
2. week	*09.22*	*10:00-12:00*	**Components and cells of the innate response. Characteristics and function of the innate immune response.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
3. week	*09.29*	*10:00-12:00*	**The major histocompatibility (MHC) gene complex. Processing and presentation of antigens. T-lymphocytes.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
4. week	*10.06*	*10:00-12:00*	**B- lymphocytes. An introduction to antibody structure and function. Inflammation and the acute phase response.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
5. week	*10.13*	*10:00-12:00*	**The innate arm of the immune system. The complement system.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
6. week	*10.20*	*10:00-12:00*	**Generation of B-cell receptor diversity. Antigen-independent differentiation of B-lymphocytes. T-cell development. Central tolerance.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
7. week	*10.27*	*10:00-12:00*	**Antigen presenting cells. Effector function of helper T-cell. Activation and function of cytotoxic T-lymphocytes.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
8. week	*11.03*	*10:00-12:00*	**Mechanisms of peripheral tolerance. The function of regulatory T-cells.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
9. week	*11.10*	*10:00-12:00*	**Differentiation and activation of B-lymphocytes. Production of various antibody isotypes and their functions. The development of immunological memory.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology

10. week	*11.17*	*10:00-12:00*	**Monoclonal antibodies. Active and passive immunization. Infectious diseases, HIV.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
11. week	*11.24*	*10:00-12:00*	**Congenital immunodeficiencies I (B-cell deficiencies). Congenital immunodeficiencies II (T-cell deficiencies). Tumor immunology.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
12. week	*12.01*	*10:00-12:00*	**Hypersensitivity reactions. The utility of flow cytometry in diagnosis, in clinical- and basic medical research.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
13. week	*12.08*	*10:00-12:00*	**Autoimmune diseases. Agglutination, qualitative determination of rheumatoid factor.**	*Theoretical Building ground floor Biophysics' Practice Room*	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
14. week	*12.15*	*10:00-12:00*	**Tissue and organ transplantation. The methodology of the Enzyme Linked Immunosorbent Assay (ELISA) and its use in clinical diagnosis, clinical and basic research.**	*Theoretical Building ground floor Biophysics' Practice Room*	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology
15. week	*12.22*	*10:00-12:00*	**Immunotherapies. Case studies.**	TB SR#2	Dr. Aliz Varga varga.aliz@med.unideb.hu Department of Immunology