

## **The content of the training programs based on advanced university studies**

### **Immunology**

**Head of discipline: Dr. Lorelei Irina Brasoveanu, CSI**

1. Central and peripheral organs of the immune system
2. Cells of the immune system
3. Antigens: classification, methods of evaluation of antigen expression
4. Classification, structure and functions of immunoglobulins
5. Cellular immune response
6. Humoral immune response
7. The complement system: the classical and alternative ways of complement activation, regulatory molecules.
8. Apoptosis and regulatory factors involved
9. The cell cycle and regulatory factors involved
10. Cytokines, chemokines
11. Antigens of the major histocompatibility complex
12. Antitumor immunity
13. Antiviral immunity
14. Humoral immunology techniques
15. Cellular Immunology Techniques