Special practice on molecular and cellular biotechnology

Specialty «5B070100 - Biotechnology», 4 course

1 home task **Тitle: 1.** Use of modern biotechnological methods in agriculture*.*

**2.** Determine protein precipitation methods*.*

3. Methods of determination of membrane stability.

**Carry out type:** Presentation. 2 **home task** **2 Тitle:** Determine protein precipitation methods. Describe factors affecting protein stability.

**Carry out type:** Presentation. **4 home task Тitle:** Describe enzyme activity analysis by electrophoresis Show preparative gel electrophoresis in protein study. Calculation of molecular mass from SDS gels Describe methods in study of proteins separation according to distinct physical properties. Describe methods in study of proteins separation according to distinct physical properties. Show preparative gel electrophoresis in protein study. Calculation of molecular mass from SDS gels. Describe enzyme activity analysis by electrophoresis

**home task 5 Тitle:** Practical examples of applications Blotting Methods

**home task 7 Тitle:** Use of Biotechnology in Agriculture—Benefits and Risks**6 home task Тitle:** Methods of study of transcriptional factors» **7 home task Тitle:** Practical applications of induced mutagenesis