*Discipline* **Modern methods in biotechnology**

Tickets Questions of RC 2

*Ticket 1*

1. Show methods of determination of nucleic acid structure
2. How to prepare vector DNA for DNA molecular cloning
3. Show using SSR molecular markers

*Ticket 2*

1. Describe using the polymerase chain reaction (PCR) in DNA analysis
2. Show DNA sequencing methods
3. What DNA molecular cloning is

*Ticket 3*

1. Present RNA-PCR or RT-PCR to detect specific transcripts
2. Analyze comparison of molecular and morphological markers and their use
3. Determine the use of AFLP markers

*Ticket 4*

1. Describe methods for studying gene expression
2. Show the principles of blotting techniques analyze the DNA or RNA
3. Characterize DNA Based Markers