

TOPIC OF A COMPETITION PROMOTING STUDENT ENGAGEMENT IN SCIENTIFIC ACTIVITIES

Topic:

Characterization and evaluation of theranostic nanoparticles properties in biological models

Goal:

To learn how to work with theranostic nanoparticles and biological models. To investigate the mechanism of action of nanoparticles with theranostic properties and their effects in biological models.

Short description (max. 2000 characters):

During this scientific activity, the student will learn about theranostics: the science of therapy and diagnostics. Student will learn how to work with theranostic nanoparticles, will learn and be able to self-evaluate them, study their properties. Later, he will learn to work with biological objects - mammalian cells. Once proficient in cell maintenance, the student will proceed to the next step of investigating the theranostic properties of nanoparticles in cells. Finally, the student will learn how to summarize the obtained results correctly, evaluate them critically in comparison with the work done by other scientists. Student will prepare a scientific report and present it to colleagues working in the laboratory. If the student succeeds in obtaining reliable results during the scientific practice, the student will be able to try his hand at a national or international conference.

Supervisor researcher/lecturer:

Dr. Evelina Kazlauskė