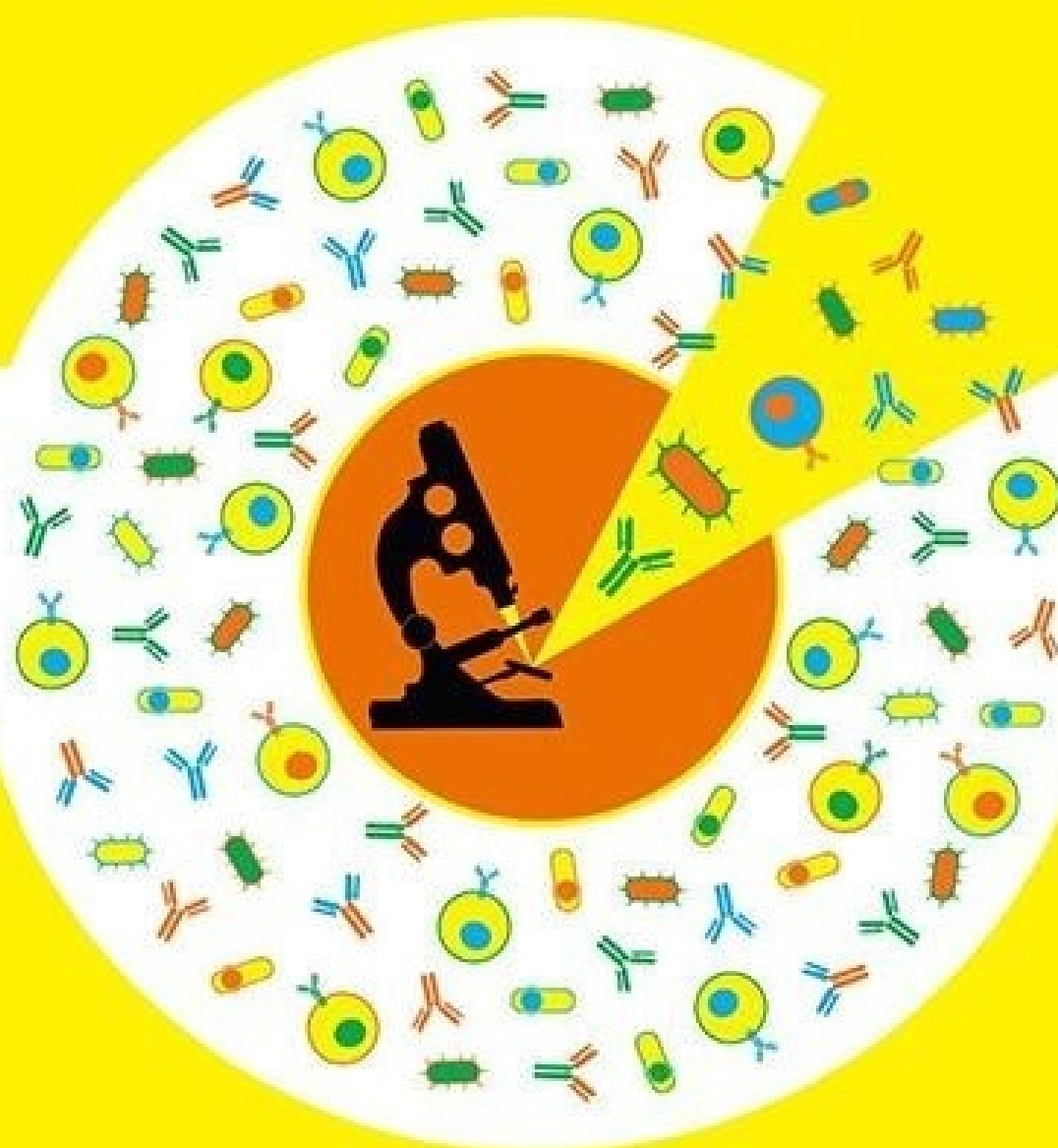


IV international scientific conference

**MICROBIOLOGY AND IMMUNOLOGY -  
THE DEVELOPMENT OUTLOOK  
IN THE 21<sup>st</sup> CENTURY**



**ABSTRACT BOOK**

Kyiv  
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**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE**

**TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV  
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the development outlook in the 21st century**

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The authors are responsible for the trustworthiness of scientific results and for the text of abstracts.

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**STRENGTHENING THE PRACTICAL COMPONENT OF THE TRAINING OF  
BIOLOGY STUDENTS THROUGH SCIENTIFIC WORK IN THE MICROBIOLOGICAL  
LABORATORY**

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**Background.** Formation of professional mobility and readiness for scientific and research activity is a key stage of specialist training. The opportunity to start a career is based not only on fundamental theoretical training and formed practical skills, but also on the ability to plan research and coordinate the work of small groups of researchers. Conducting research in a microbiological laboratory within the framework of a study club is designed to help the student in this.

The **aim** of the study was to analyze the potential areas of students' work in the microbiological laboratory within the framework of a study club and to justify their use in the practical training of future biologists.

**Methods.** The assessment of potential topics for research by students was carried out on the basis of a critical analysis of literary sources and the pedagogical experience of the authors of the work.

**Results.** The most promising areas of student microbiological research are works related to the isolation, identification, isolation into pure culture and subsequent study of the properties of microorganisms from natural and human-modified biotopes.

Sampling locations are determined by the objectives of the study. To study soil microbes, it is better to choose places with varying degrees and types of anthropogenic transformation. Antibiotic-resistant microbiota are easiest to find in hospitals, but comparisons require studies of sites with a medium to low likelihood of ingesting such microbiota. Samples of pathogens that cause plant diseases may be studied.

When identifying microbes, students are trained to work with the keys. They also study the properties of microorganisms (Gram stain, endospore formation, tests for sugar fermentation, catalase, oxidase activity), can isolate their DNA, study the molecular relationship between individual strains.

However, the key element of this work is the independent planning of scientific work and the statistical analysis of the data obtained.

**Conclusions.** Planning and carrying out by students of their own microbiological research ensures the integration of professional competencies and ensures high demand in the labor market.

**Keywords:** *professional competence, practical experience, detection and study of microbes.*

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