

MICROBIOLOGIST'S CLUB
EDUCATIONAL AND RESEARCH LAB – MF – NBU
Protocol №3/20.12
BioLab C1/04, 18:00h, Building I

ART WITH BACTERIA

1. For the Christmas holidays, members of the Microbiologist's Club had the opportunity to draw a holiday design of their choice on petri dishes with an inoculation loop, but instead of paint, they used bacteria.
2. This method of painting with bacteria originated in Bulgaria and gradually became popular in many other countries.
3. The picture below illustrates some of the students' drawings, for which they used safe strains of bacteria, such as *Escherichia coli*, *Bacillus subtilis*, and *Enterococcus avium*.



MICROBIOLOGIST'S CLUB
EDUCATIONAL AND RESEARCH LAB – MF – NBU
Protocol №2/21.11
BioLab C1/04, 14:40h, Building I
Central lobby, 23.11, 15:00h, Building I

COMMEMORATING THE 170TH ANNIVERSARY OF THE BIRTH OF HANS CHRISTIAN GRAM. MICROSCOPIC DEMONSTRATIONS. ON THE PATH OF THE GREAT: GRAM (+) AND GRAM (-) BACTERIA

1. Members of the Microbiologist's Club learned about the discovery by Hans Christian Gram of the basic staining method and Gram (+) and Gram (-) bacteria, named after him
2. Students made permanent microscope slides using bacterial colonies cultured from the Club's previous experiment
3. The fixed smear was stained using the staining method introduced by Hans Christian Gram, which is used to classify bacterial species into two major groups: Gram-positive and Gram-negative bacteria according to their cell wall thickness. This method is one of the most important and used methods in microbiology to this day
4. The students observed the stained slides under a microscope
5. For the university's Open Doors initiative, the students did a microscopic demonstration of the preparations they made and stained. The demonstration was held in the central lobby of Building I, where the students attracted the attention of prospective students, students, visitors, faculty, and staff of New Bulgarian University

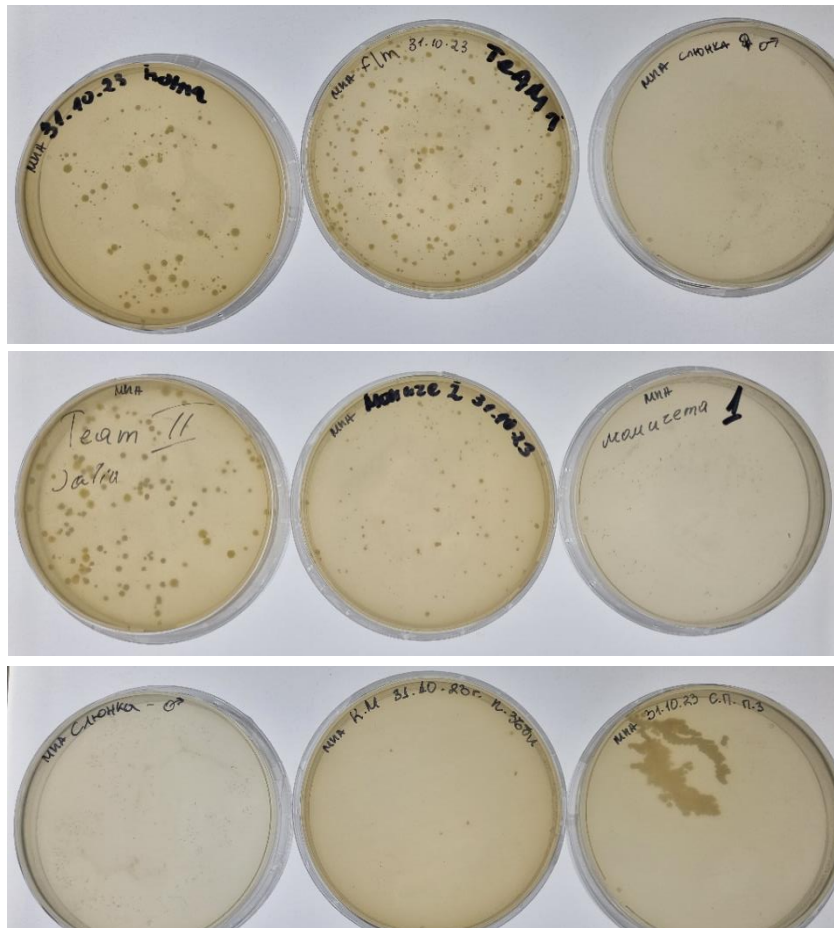


Selected footage from the microscope demonstration during Open Doors Week.

MICROBIOLOGIST'S CLUB
EDUCATIONAL AND RESEARCH LAB – MF – NBU
Protocol №1/31.10
BioLab C1/04, 18:00 h, Building I

**COMMEMORATING THE 300TH ANNIVERSARY OF THE DEATH OF THE DISCOVERER OF
MICROORGANISMS, ANTHONY VAN LEEUWENHOEK. ON THE PATH OF THE GREAT:
LEEUWENHOEK'S DENTAL PLAQUE EXPERIMENT**

1. Upon entering the Biolab, students received guidelines and instructions for lab safety work
2. Students who are members of the Microbiologists' Club got to know the story of the discoverer of microorganisms, Antony van Leeuwenhoek
3. In the UPIZ of Biology laboratory (BioLab-MF-NBU), they managed to recreate one of Leeuwenhoek's experiments with dental plaque
4. Students' interest also prompted the idea of testing the microorganisms living in our oral cavity (saliva), on the skin and hair
5. Students used their own body samples and inoculated them into Petri dishes using a sterile swab, following sterile conditions
6. The results they were able to see the next day, after 24 hours of cultivation of the microorganisms, are presented below.



Cultures of skin, saliva and dental plaque from student samples.