**Virology activity points 2024/2025**

**(9 points in total: 5 points mini test + 4 points activity during practical classes)**

**Date: 1st August 2025 during practical classes for group 1 and 2**

**Topics for mini test**

1. Virion structure (genome, capsid, envelope) and general properties of viruses.

2. Viral genetics. Mutations. Recombinations.

3. Viral interference, interferons and antiviral mechanisms of interferons.

4. The principles of laboratory diagnosis of viral infections. Collection of specimens and transport.

5. Isolation of the viruses in the system of living cells. Identification of viruses based on the morphology of viruses, viral antigens and viral nucleic acid.

6. Serological methods in laboratory diagnosis of viral infections: types of serological methods, neutralization test, DIF, IIF, ELISA, Western blot

7. Oncogenic viruses: Mechanisms of HPV and EBV oncogenesis.

8. Structure, pathogenesis, medical importance and laboratory diagnosis of herpesviral infections (HSV, VZV, CMV, EBV)