The theme of postgraduate courses

Postgraduate course about emerging virosis - 2 days

1. New human pathogenic coronaviruses (SARS-CoV, MERSCoV). Diagnosis in an epidemic of unknown cause. 2 hours

Emerging arboviruses (Chikungunya V, Zika V). Viral pathogenicity changes by crossing the species barrier 3 hours

2. Viral haemorrhagic fevers (Ebola V., Marburg V.). Ebola anti-virus vaccines. The use of viral vectors in the development of new types of antiviral vaccines. 3:00

Postgraduate course about oncogenic viruses. Antiviral vaccination as a method of prevention against cancers with infectious etiology (cervical carcinoma, hepatocellular carcinoma) - 3 days

1. Viruses with oncogenic potential (HTLV, EBV, HBV, HCV, HPV). Viral Oncogenes vs cellular protooncogenes. The oncogenesis mechanism of RNA viruses. The oncogenesis mechanism of DNA viruses - 2h

2. Involvement of human papillomaviruses in cervical carcinoma; structure, replication, pathogenesis, diagnostic principles, elements of epidemiology. High oncogenic risk genotypes - 3h

2. Screening for cervical cancer, HPV epidemiology in Europe. National screening programs for early detection of cervical cancer. HPV infection diagnosis: pathological products collected; nucleic acid extraction, commercial tests for detection and genotyping. New techniques for monitoring the evolution of HPV infection. Detection of mRNA E6 / E7HPV - 4h

3. Anti-HBV vaccination and prevention of primitive liver cancer. Antipapilomaviruses vaccination and prevention of cervical carcinoma. Techniques for obtaining virus-like particles. Methods for monitoring the vaccines efficiency – 2h