Teaching unit 04

1. Oncogenes. Definition and classification.

2. Multistage tumorigenesis. Proto-oncogenes.

3. PDGF, basic characteristics.

4. VEGF, basic characteristics.

5. Hyperactivity of oncogenes. Genetic mechanisms.

6. Ras genes. Basic characteristics. Role in oncogenesis and tumor progression.

7. Cooperation of oncogenes.

8. c-myc. Role in oncogenesis and tumor progression.

9. HER2/neu

10. Cyclin D

11. Bcl-2

12. Oncogenes in colorectal cancer and lung cancer.

13. Oncogenes in breast tumor.

14. Oncogenes in lung cancer.