

## **For General Medicine**

### **Topic of section: Microscopy**

### **Topic of seminar: Electron and atomic force microscopies**

#### **Answer the questions:**

1. Explain the wave particle duality concept. Give the formula for the de Broglie's wavelength.
2. Describe the main principles of electron microscope operation.
3. How is an electron microscope resolution limit determined?
4. Write a formula for optical microscope magnification.
5. What are the differences between electron and atomic force microscopies?

#### **Literature**

1. Optical, electron and atomic force microscopies: учеб.-метод. Пособие / Л.В. Кухаренко, О.В. Недзьведь. – Минск: БГМУ. 2014. – 31 с.