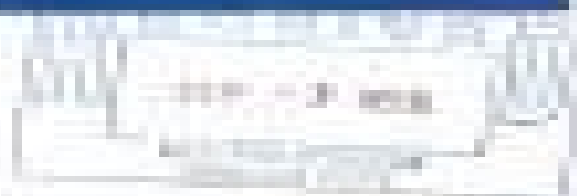




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3

Microscopy



Learning Objectives

- 1. Explain the principles of light microscopy and the relationship between resolution and wavelength.
- 2. Describe the components of a light microscope and the function of each part.
- 3. Calculate the magnification of a light microscope and the resolution of a light microscope.
- 4. Compare the resolution of a light microscope with the resolution of an electron microscope.
- 5. Describe the principles of electron microscopy and the relationship between resolution and wavelength.
- 6. Calculate the magnification of an electron microscope and the resolution of an electron microscope.
- 7. Compare the resolution of an electron microscope with the resolution of a light microscope.
- 8. Describe the principles of scanning electron microscopy and the relationship between resolution and wavelength.
- 9. Calculate the magnification of a scanning electron microscope and the resolution of a scanning electron microscope.
- 10. Compare the resolution of a scanning electron microscope with the resolution of a light microscope.

Introduction

History

1. In the 17th century, the first microscopes were invented. They were simple devices that used lenses to magnify objects.
2. In the 19th century, the first electron microscopes were invented. They used electrons instead of light to create images.
3. In the 20th century, the first scanning electron microscopes were invented. They used a beam of electrons to scan the surface of an object.

Today, we use microscopes to study the structure of cells, the behavior of molecules, and the properties of materials. Microscopes are also used in many other fields, including medicine, geology, and astronomy.

Light microscopes and electron microscopes are the most common types of microscopes. Light microscopes use visible light to create images, while electron microscopes use a beam of electrons. Both types of microscopes have a lens that magnifies the object being studied.



Topics In Study Of Life Lab Manual

R Barnett



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