

# Biophysical electron microscopy - basic concepts and modern techniques

Academic Press - Detection of Bacteriophages: Electron Microscopy and Visualisation

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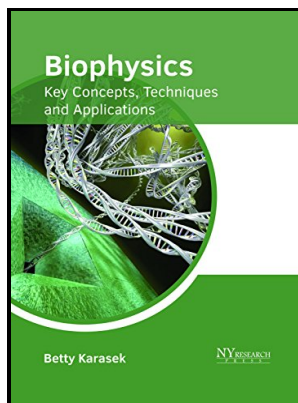
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Notes: Includes bibliographical references and index.

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## Scanning Electron Microscopy (SEM)

Creating these thin sections for biological and materials specimens is technically very challenging.

## Scanning Electron Microscopy (SEM)

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## Introductory Confocal Concepts

Images viewed reveal detailed structures within cells. This point of illumination is brought to focus in the specimen by the objective lens, and scanned across it using some sort of scanning device under computer control. Fluorescence Microscopes A fluorescence microscope uses fluorescent chromophores called fluorochromes, which are capable of absorbing energy from a light source and then emitting this energy as visible light.

## Scanning Electron Microscopy (SEM)

In 1830, Joseph Jackson Lister created an essentially modern light microscope. Also in 1937, pioneered the.

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Lasha Gogokhia and June Round provided samples of phage NC-B and NC-G. Immuno-labeling allows specific phage components to be located.

## 7.2: Electron Microscopy

The conventional optical microscope forms the basis around which the LSCM is built. Figure 1 illustrates the principal light pathways in a basic confocal microscope configuration.

### **Biophysical techniques**

One major disadvantage of the transmission electron microscope is the need for extremely thin sections of the specimens, typically about 100 nanometers. The Journal of Biophysical and Biochemical Cytology. The low energy associated with the long-wavelength light means that two photons must strike a location at the same time to excite the fluorochrome.

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