

Chapter 4 Web Links

[Dennis Kunkel Microscopy and Stock Photography Image Page](#)

An online collection of micrographs that are works of art. Various insects, bacteria, and other organisms are featured.

[Nanoworld Image Gallery](#)

The Centre for Microscopy and Microanalysis at the University of Queensland has compiled a gallery of transmission and scanning electron microscope micrographs. You can browse various types of cells, tissues, and crystals. These images are excellent for class studies and project resources.

[Virtual Cell](#)

A series of still images, texts, and movies portray the structure and function of a generic plant cell, as students navigate their way through it. For example, removing the cell wall and then the plasma membrane provides a view of internal organelles. Clicking on the chloroplast brings up an inside view, then closeups of grana, then photosystems. At each step, a short, simply worded paragraph, often posing questions, describes the structure and how it works.

[Cell Biology Topics](#)

Links to images and descriptions of organelles.

[Mitochondria Movies](#)

Three-dimensional images of mitochondria.

[A Typical Plant Cell](#)

A sketch of a plant cell. Click on an organelle for a brief description of its function.

[Ribosome Image](#)

A colorized three-dimensional ribosome image.

[Prokaryotes, Eukaryotes, & Viruses Tutorial](#)

This is a well-written tutorial that will help you to learn about the structures of prokaryotic and eukaryotic cells.

[Cytoskeleton Tutorial](#)

This tutorial will help you understand microtubules, microfilaments, and intermediate filaments, and their roles in cell movement.

[Scanning Electron Microscope](#)

An assortment of SEM images—*not* quite relevant to this chapter, but really nice to look at.

[Cells Alive!](#)

The famous cell site. Learn about various types of cells and the relative sizes of different cell types; view the cell image gallery and more.

[The Virtual Cell Textbook: Cell Biology](#)

Illustrations and brief descriptions of many cell organelles.

[Ribosomes Revealed](#)

The *Scientific American* story of how a detailed image of a ribosome was obtained.

[Cellular Organelles](#)

Descriptions of the functions of many cellular organelles.

[An Electron Microscopic View of Membranes](#)

Illustrations of tight junctions, gap junctions, and other cell membrane specializations.

[Online Service for Cell Biology](#)

Click on the British flag for an English version of this German website that includes photos, videos, and 3-D animations of cells. On the left navbar, click the Search button, then click on the Sitemap link to access animations and discussions of cells and their organelles.

[Animal Cells](#)

From this illustration of an animal cell, you can follow links to a discussion of organelle function.

[Cell Structure and Processes](#)

Very basic explanations of cell structures and function.