

BOTANICAL MODELS

BR-194 PLANT CELL

Provides clear inside view of the nucleus, chloroplasts, cell wall, and vacuoles of a plant cell, as well as allows exploring the relationship of a cell to its adjacent cells. This simplified model, enlarged 3,000x, is perfect for introducing students to the basic parts of any plant cell. The one-piece model is mounted on a baseboard with numbered Key Card.



BR-195 TYPICAL PLANT CELL

This model shows three dimensional view of a plant cell. It includes the nuclear membrane, cell wall, chromosomes, endoplasmic reticulum, chloroplast, large central vacuole, mitochondria, ribosomes. The complete model is mounted on a base with numbered Key Card.



BR-196 TYPICAL PLANT CELL



A highly magnified representation of a typical and generalized plant cell, showing ultra-microscopic detail. The structures are shown in section and in relief. The model is mounted on a base.

BR-197 TYPICAL PLANT CELL

Enlarged approximately 4000 times, this realistic model offers a three dimensional view as seen through on electron microscope.

- ▲ Color coded for easy identification.
- ▲ A portion of the wall is removed to show the plasma membrane, vacuoles, plastids, mitochondria and nucleus.

Mounted on a base with numbered key card.



BR-198 TYPICAL PLANT CELL

Give students a three dimensions view of a plant cell. Included are the nuclear membrane, cell wall, chromosomes, endoplasmic reticulum, chloroplast, large central vacuole mitochondria, ribosomes. The complete model is on a base with numbered key card.



BOTONICAL MODELS

BR-199 PLANT CELL DIVISION, MITOSIS

These models are highly detailed using bright vivid colours, so that they can be clearly seen from a distance by the entire class. A set of 10 models showing all the stages of karyokinesis and cytokinesis from metabolic cells of the formation from one cell to two cells. Mounted on a board with numbered key card.



BR-200 PLANT CELL DIVISION, MITOSIS

Same as above but simpler and economical version, smaller in size.



BR-201 PLANT CELL DIVISION, MEIOSIS

A newly designed model according to recent concept of chromosome changes from the resting nucleus to the formation of four daughter cells. Completely mounted on board with numbered key card.



BR-202 FERTILIZATION OF THE ANGIOSPERMS

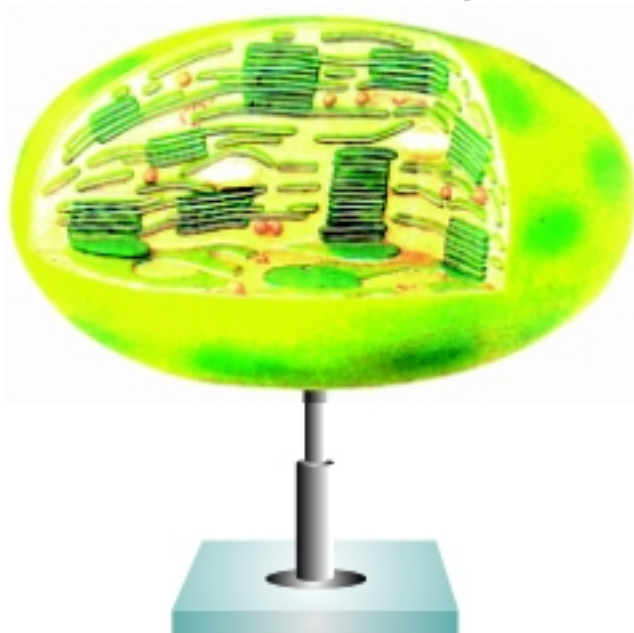
Polygonum-type, enlarged 300 times, in Arco-plast. Longitudinal section showing nodes with germinating pollen spores and embryo sac, stamen with pollen in sagittal section. Showing in detail, the microscopic structure on a base with explanatory notes and numbered Key Card.



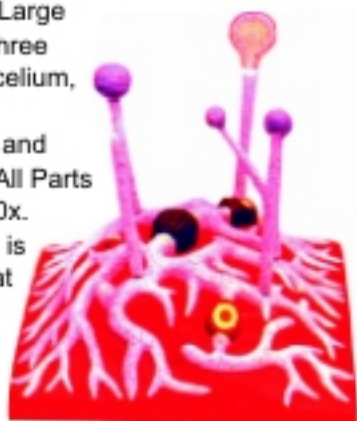
BOTANICAL MODELS

BR-203 CHLOROPLAST

For showing the detailed structure of food factory of plants, i.e., where the photosynthesis takes place. Designed after the latest electron microscopy interpretation of the chloroplast, the 3-dimensional structure is depicted in longitudinal and cross section to show the interior details of the chloroplast comprehensively enlarged about 60,000x. One quarter of the model is cut away to reveal the inner detail in three levels, which can be taken apart. This two part three-dimensional model of a chloroplast allows easy disassembly and removal of the thylacoids and linking stroma to reveal the interior structure where photosynthesis occurs. The complete model is mounted on a stand with numbered key card.

**BR-204 FUNGI**

Vegetative and reproductive structure of Mucor clearly displayed. The Large Model separates into three parts, showing the mycelium, with fruiting bodies displaying both sexual and asexual reproduction. All Parts are enlarged about 250x. The three-piece model is mounted on a base that also features explanatory notes and comes with a study guide identifying twelve structures.

**BR-205 SPIROGYRA LH**

Showing the complete circle of Spirogyra Life History. Showing all stages as well. Mounted on board.

**BR-206 SECTION THROUGH THE STEM OF A YEAR OLD DICOTYLE PLANT**

Enlarged approximately 125 times, in Arco-plast. Mounted on a base with explanatory key card.

**BR-207 HERBACEOUS DICOT STEM SECTION**

This substantially enlarged model of plant vasculature structure of an herbaceous dicot stem section with all the details highlighted in vivid colors, makes it easier to study this model and understand the structure and function of a plant stem. The single, open, collateral, vascular bundle of an herbaceous dicot is shown longitudinally and cross sectioned, clearly showing the elements of the xylem and phloem. The model is mounted on a baseboard with numbered key card.

**BR-208 ANATOMY OF DICOT STEM, TS AND LS COMBINED**

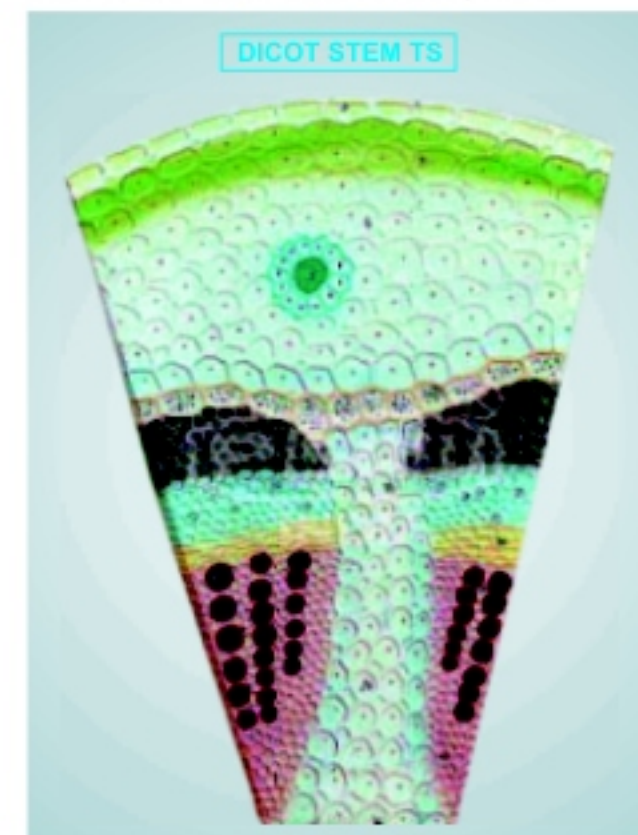
Showing all details, the cambium ring is formed but no secondary growth has yet taken place. Very useful and instructive model for the study of epidermis, lenticle, cork layer, cork cambium, cortical parenchyma, medullary rays, phloem and internal cambium, xylem etc. Mounted on base with numbered key card.

**BR-209 ANATOMY OF DICOT STEM, TS AND LS COMBINED**

Showing Transverse, radial and tangential sections and other important structures.

**BR-210 DICOT STEM TS**

Showing various tissues vascular bundles in transverse section of the dicot stem (sunflower). Mounted on board with numbered Key Card.



BOTANICAL MODELS

BR-211 HERBACEOUS DICOT STEM

Showing cellular structure both in cross and longitudinal section, mounted on board with numbered key card.

**BR-212 HERBACEOUS DICOT STEM**

300x life size. The block model shows a herbaceous dicot stem in cross and longitudinal section; significant elements of the tegumental and cortical zones are clearly depicted. The central vascular cylinder, including xylem and phloem, is shown in detail. With key. Mounted on a durable polymer base. Model size is 42 x 29 x 9 cm.

**BR-213 MONOCOT STEM, CORN**

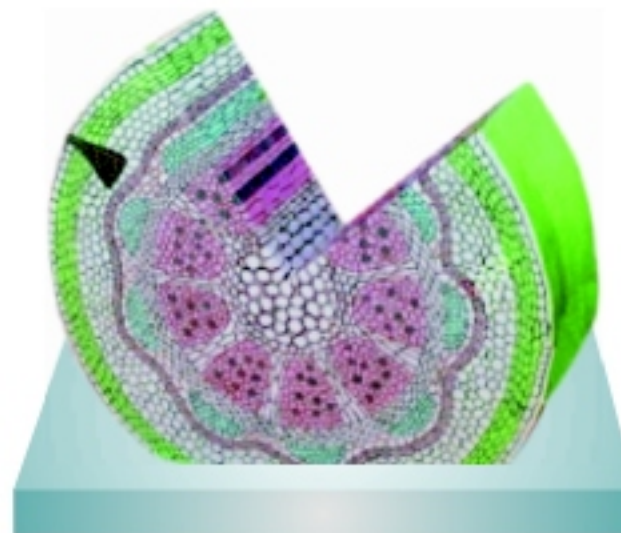
Ideal for demonstration the general monocot. Each cell and tissue type is shown from several aspects with numbered key card.

**BR-214 MONOCOT STEM, MAIZE, TS**

Showing various tissues vascular bundles in transverse section of monocot stem of maize, mounted on base with numbered key card.

**BR-215 MONOCOT STEM ANATOMY, TS AND LS COMBINED**

Showing section and all vascular bundles details, mounted on board with numbered key card.



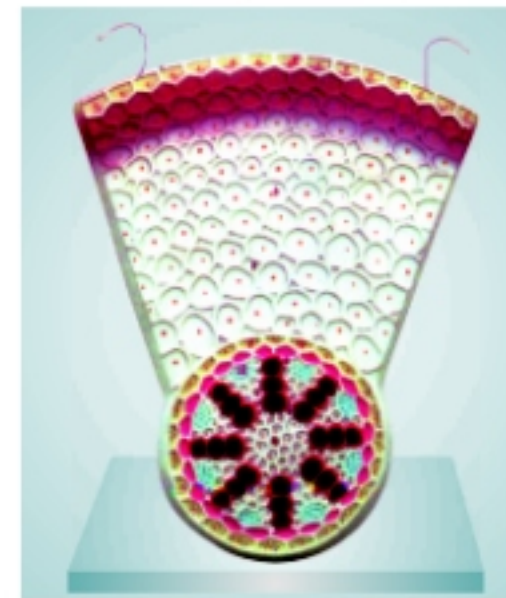
BOTANICAL MODELS

BR-216 DICOT ROOT TIP

This three part colour model shows structure in cross and longitudinal section. It includes a mature region, a region of maturation and growth and the root tip with root cap. A three dimensional model, mounted on board with numbered key card.

**BR-217 MONOCOT ROOT, TS**

The model depicts monocot root in transverse section showing complete internal details of root. Mounted on base with numbered key card.

**BR-218 ROOT**

Enlarged about 300 times, durable plastic, showing in longitudinal and transverse section, crown of removable. Dissectible in two part. Mounted on base with numbered key card.

**BR-219 ROOT TIP ANATOMY**

Showing LS and TS of a root tip with root cap maturation region and root hairs etc. A three-dimensional model, mounted on stand with numbered key card.



BOTANICAL MODELS

BR-220 DICOT LEAF, TS

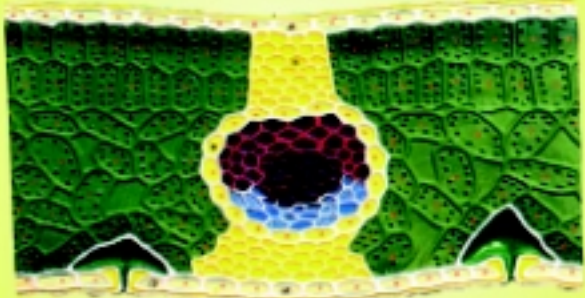
Showing internal structure on board with numbered key card.



T.S. AND L.S. DICOT LEAF

BR-221 DICOT LEAF, VS

Showing details of typical mesophytic leaf. Mounted on plastic base with numbered key card.



BR-222 MONOCOT LEAF, TS

Showing internal structure on board with numbered key card.



MONOCOT LEAF, TS

BR-223 MONOCOT LEAF, VS

Showing internal structure of typical monocot leaf mounted on plastic base with numbered key card.



BR-224 LEAF BIFICIAL, TS

Showing internal structure on board with numbered key card.



T.S. AND L.S. DICOT LEAF

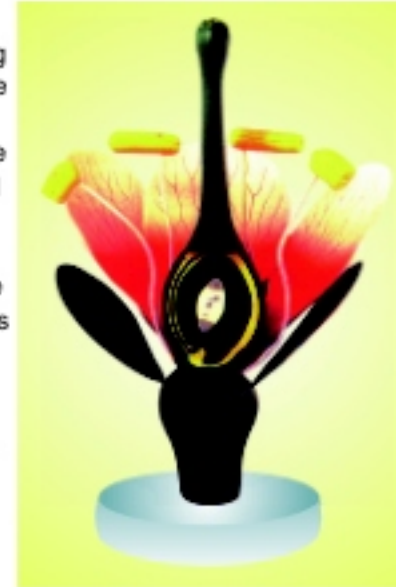
BR-225 FLOWER (PRUNUS)

9 times enlarged model showing all detachable parts. One part of the cup-shaped receptacle with one sepal, two petals and one group of stamens is removable, exposing the middle ovary not grown together with the receptacle, which is typical for the prunoideae. Separates into 3 parts on stand with numbered key card.



BR-226 DICOT FLOWER

Dissect Flower to Study Angiosperm Reproduction. Each of the eight parts of the flower model, enlarged 10x, represents one of the unique structural components, such as the sepals, petals, stamens, and pistil. Fertilization is shown, with pollen grains on the stigma; one pollen tube is shown penetrating the micropyle. The anthers are sectioned, and the ovary is dissected to show the female gametophyte. The model also depicts the scenario for double fertilization. The eight-piece model is mounted on a base with numbered key card.



BR-227 TYPICAL FLOWER

Beautifully designed large sized, showing all parts, detachable, mounted on stand with numbered key card.



BOTANICAL MODELS

BR-228 TYPICAL FLOWER, LS

Using a longitudinal section, this colorful plaque provides a detailed introduction to the structure and reproduction of a flowering plant.

- ▲ Structures depicted include the petal, stem, pistil and stamen.
- ▲ Another one is dissected to reveal pollen.
- ▲ Pistil provides a view of the ovary, ovules, and a pollen tube.
- ▲ Double fertilization process is illustrated.



BR-229 COMPARATIVE GERMINATION MODEL

Combines three different types of plants on one model. Compare monocot, dicot, and gymnosperm germination with this one high-quality, exceptionally detailed model. The monocot type is represented by a rye shoot enlarged 10x. The dicot by a two-leaf bean shoot enlarged 5x, and the gymnosperm by a star-shaped fir leaflet enlarged 20x. Students can study root development, the methods by which the different plants sprout, and the structure of each type of seedling because each component of the model is removable for closer examination. The eight-piece model is mounted on a base and comes with a study guide identifying nine structures:

