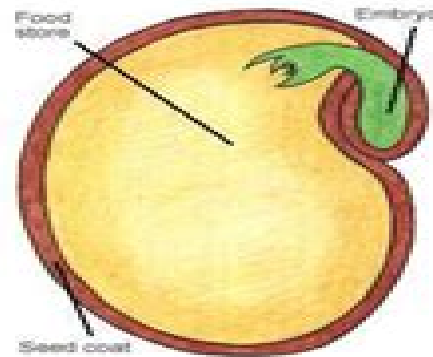


Seed Identification and Dissection Lab



Purpose

The purpose of the lab is to dissect a bean seed in order to identify all of the parts of an embryonic plant (including the cotyledons, embryonic root (radicle), epicotyl, hypocotyls, and seed coat).

Background Information:

1. There are two kinds of seed-bearing plants: the flowering plants are called "angiosperms", and the non-flowering plants are called "gymnosperms". Most seed plants are the flowering kind. There are over 250,000 species of flowering plants, and only about 600 non-flowering plants. Corn and beans are angiosperm seeds.
2. A seed is a tiny life-support package. All seeds have three parts: a tough covering (seed coat), an embryonic plant consisting of the plumule (embryonic leaves), epicotyl (upper stem), hypocotyls (stem of adult plant), and radical (roots), and a food supply (cotyledon). The hilum is the site of attachment to the ovary. In black eyed peas, the "black eye" is the hilum.
3. The outer covering of the seed is called the seed coat. The seed coat helps protect the inside of the seed from insects, disease, and damage. Sometimes the seed coat is smooth and paper-thin like that of a pinto bean. A coconut's seed coat, however, is rough, thick, and hard. A seed cannot develop into a plant until the seed coat is broken.
4. The embryo is the tiny plant inside the seed. The embryo is the source of the root, stem and leaf structures.

Seed Identification And Dissection Lab Data Sheet

DJ Losen



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