

OPEN EDUCATIONAL RESOURCES: BOTANY

(Source: Cossatot Community College of the University of Arkansas)

1. <https://libguides.cccua.edu/c.php?g=793104&p=5710965>

2. Botany Online--The Internet Hypertextbook

https://s10.lite.msu.edu/res/msu/botonl/b_online/e00/contents.htm

- An html textbook by Alice Bergfeld, Rolf Bergmann, and Peter Sengbusch, originally produced in German at the University of Hamburg. Scroll down for links to heavily illustrated pages in English on botanical history, plant anatomy, genetics, and more. Now hosted on a Michigan State University server.

3. Intech-Botany

<https://www.intechopen.com/books/botany>

- This book is devoted to botany and covers topical issues in this diverse area of study. The contributions are designed for researchers, graduate students and professionals. The book also presents reviews of current issues in plant-environment interactions making it useful to environmental scientists as well. The book is organized in three sections. The first section includes contributions on responses to flood stress, tolerance to drought and desiccation, phytotoxicity to Chromium and Lead; the second has aspects of economic botany including a review of Smut disease in sugarcane and properties of plant extract used Tassaboount date juice; the last covers topical issues on morphogenesis and

genetics on cotton fiber special cell, secretory glands *Asphodelus aestivus* flower ,pollen tube growth in *Leucosium aestivum* , morphological studies of *Ardisia crenata* complex, and hybrid lethality in the Genus *Nicotiana*.

4. Anticipating and Preventing the Spread of Invasive Plants

<https://toolkit.climate.gov/case-studies/anticipating-and-preventing-spread-invasive-plants>

- Finding and eradicating invasive plants is a tough job that requires constant vigilance. County-scale maps that show where invasive plants are and where they have the potential to spread in the future are helping on-the-ground efforts to build the resilience of natural vegetation.

5. Botany & Art and Their Roles in Conservation

<https://learninglab.si.edu/collections/botany-and-art-and-their-roles-in-conservation/cAoin2jFwq9Ux7oJ#r>

- The lessons in this issue of *Smithsonian in Your Classroom* introduce the work of botanists and botanical illustrators, specifically their race to make records of endangered plant species around the world. “Very little of the world’s flora has been fully studied,” says one Smithsonian botanist, “and time is running out.” In the first lesson, students get to know six endangered plants. They examine illustrations, photographs, and dried specimens of the plants as they consider this question: If a scientist can take a picture of a plant, are there advantages in having an illustration? They go on to consider some of the big questions that botanists themselves must ask: Which of these species are most in need of conservation efforts? Are any of these plants more worth saving than others? In the second lesson, the students try their own hands at botanical illustration, following the methods of a Smithsonian staff illustrator. All that is required

for the lesson are pencils, markers, tracing paper, and access to a photocopier.

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