Since its launch in October 2009, Teaching Tools in Plant Biology has been downloaded thousands of times a year, providing a host of exciting and stimulating materials to boost education in the classroom.

Customizable
Each module contains around 100 slides, and because the Tools are customizable, teachers can use the material in its entirety or select just the items they need to support their own teaching plan.

Concise
A short version of each topic is also published, offering an overview of a particular subject in just two dozen slides.

Lecture Notes
A review article for each topic (“Lecture Notes”) is also included. These are written specifically for undergraduates and contain hyperlinked references to lead students to further reading.

Teaching Guide
To complete each topic, a Teaching Guide is also provided. This guide summarizes the material contained within each topic, outlines learning objectives, and provides examination and discussion questions.

Teaching Tools are written and edited by a leader in Plant Biology education.

MARY WILLIAMS received her BS in biochemistry from the University of California, Berkeley, and her PhD at Rockefeller University with Nam-Hai Chua. She carried out postdoctoral research with Ian Sussex at Berkeley. She was a professor for 15 years at Harvey Mudd College, an elite undergraduate institution, and spent several years as a member and chair of the ASPB Education Committee.

Mary accepted the challenge of developing Teaching Tools because she wanted the opportunity to share her passion for plant biology with a larger audience of students.

Contact Mary with ideas for topics at mwilliams@aspb.org.

Teaching Tools in Plant Biology
ideas to grow on
www.teachingtoolsinplantbiology.org

www.teachingtoolsinplantbiology.org
Free access with your institution’s subscription to The Plant Cell and Plant Physiology

ASPB is a professional society founded in 1924 and devoted to the advancement of plant biology. It publishes two high-impact primary research journals and other publications, organizes conferences, and undertakes other activities that are key to the advancement of the science.

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Themes include:

Physiology
- Water Relations: Uptake and Transport
- Plant Nutrition: Membrane Energetics
- Plant Nutrition: Macronutrients
- Light-Dependent Reactions of Photosynthesis
- And more …

Biotic Interactions
- Fighting for Their Lives: Plants and Pathogens
- Plants and Arthropods: Friends or Foes?
- Intimate Alliances: Plants and Their Microsymbionts
- And more …

Hormones
- The Story of Auxin
- Abscisic Acid
- Strigolactones
- And more …

Plants and People
- Medicinal Plants: Past, Present and Future
- Plants, Food and Human Health: You Are What You Eat?
- And more …

The following six Teaching Tools do not require a subscription:
- Why Study Plants? Now available in 18 additional languages: Catalan, Chinese, Dutch, Finnish, French, German, Greek, Italian, Japanese, Lithuanian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, and Ukrainian
- Leaf Development 1 (Evolutionary and Developmental Origins of Leaves)
- Leaf Development 2 (Genetic Control of Leaf Development)
- Epigenetics
- The Small RNA World
- Introduction to Phytohormones

“Teaching Tools in Plant Biology® is a series of customizable resources that supports those involved in teaching plant science.

As part of ASPB's high-impact journal *The Plant Cell*, Teaching Tools links education and research, presenting our current understanding of plant processes and showing how experimental data are the fundamentals upon which this understanding is based.

The Tools offer the lecturer basic reviews of the topics and a series of Lecture Notes and visual materials that are all written with a minimum of jargon, making them fresh and accessible for student readers.

The Tools are rigorously peer-reviewed and made freely available to subscribers to *The Plant Cell*.

PowerPoint slides show information through graphic images and experimental data. Because it is important to communicate the process of science, key experiments are explained in detail, with links to the original articles. The process of science is also emphasized through the inclusion of historical studies and ideas and by highlighting ongoing research efforts. Finally, Teaching Tools in Plant Biology places plant science in a contemporary context and highlights the role of plant science in mitigating global challenges.

Features at a Glance
- PowerPoint slides and accompanying Lecture Notes for undergraduate teaching
- Customizable
- Peer-reviewed
- Current and up-to-date
- Free to subscribers to ASPB journals

“I love the Lecture Notes review articles that go along with the Power-Point slides!”

JANE ELLIS
PROFESSOR OF BIOLOGY
PRESBYTERIAN UNIVERSITY