



Physiology and Behaviour of Plants

By Peter Scott

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Physiology and Behaviour of Plants By Peter Scott

Physiology and Behaviour of Plants looks at plants and how they sense and respond to their environment. It takes the traditional plant physiology book into a new dimension by demonstrating how the biochemical observations underlie the behaviour of the plant. In many ways the book parallels courses studied at university on animal physiology and behaviour. The plant has to meet the same challenges as an animal to survive, but overcomes these challenges in very different ways. Students learn to think of plants not only as dynamic organisms, but aggressive, territorial organisms capable of long-range communication.

Hallmark features include:

- Based on a successful course that the author has run for several years at Sussex University, UK
- Relates plant biochemistry to plant function
- Printed in four colour throughout
- Includes a wealth of illustrations and photographs that engages the reader's attention and reinforce key concepts explored within the text
- Presents material in a modern 'topic' based approach, with many relevant and exciting examples to inspire the student
- An accompanying web site will include teaching supplements

This innovative textbook is the ultimate resource for all students in biology, horticulture, forestry and agriculture.

Companion website for this title is available at www.wiley.com/go/scott/plants

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Editorial Review

Review

"This book, with Scott's enthusiasm and clear writing style, offers a refreshing approach to introductory plant biology. Recommended." (*CHOICE*, March 2009)

"Author Peter Scott's approach is to present basic concepts of plant physiology and development in an enthusiastic and engaging manner. Hence, he tries to use his passion for his subject to be an effective teacher, and his enthusiasm is evident throughout the book. One of the clear strengths of this book are the high quality color diagrams. I enjoyed reading ... and came away with good ideas for new approaches to teaching topics in plant biology. The book could be useful in a number of courses in botany and plant biology at the freshman and sophomore level." (*Plant Science Bulletin*, Winter 2008)

From the Back Cover

From the bizarre, sticky fly paper tactics of carnivorous plants, to the amazing capabilities of resurrection plants and the beautiful bee orchid that uses mimicry to attract pollinators, Peter Scott's engaging textbook celebrates plants in all their glory and provides a thought-provoking introduction to how they sense and respond to their environment.

Plants have to meet the same challenges as animals in order to survive, but have evolved to overcome these challenges in very different ways. This exciting new textbook will help first and second year biological science students get to grips with the biochemistry that underlies the behaviour of plants and appreciate them as dynamic, territorial and sometime aggressive organisms, capable of long-range communication.

Features:

- a fresh, innovative introduction to plant biology
- a wealth of examples, specifically chosen to capture and engage the reader's interest, including topics such as plant defences, interactions with the animal kingdom, plants and medicines and carnivorous plants
- stunning colour illustrations and photographs designed to captivate the reader and reinforce key concepts explored within the text
- an exploration of molecular mechanisms underlying plant physiology and behaviour from a whole plant perspective

About the Author

Having first been excited by the complexity and beauty of the plant kingdom as a student in Cambridge, **Peter Scott** is now Senior Lecturer in Plant Biology at the University of Sussex, where his research interests include orchids, resurrection plants and helping students to understand the wonder of the natural world around them.

Users Review

From reader reviews:

Bertha Underwood:

The publication with title Physiology and Behaviour of Plants possesses a lot of information that you can find

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Gerald Morin:

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