



# 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](http://www.wiley.com/go/scott/plants)

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## Physiology and Behaviour of Plants By Peter Scott Bibliography

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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:

#### Russell Belcher:

Have you spare time for just a day? What do you do when you have a lot more or little spare time? Yep, you

can choose the suitable activity for spend your time. Any person spent all their spare time to take a move, shopping, or went to typically the Mall. How about open or read a book allowed Physiology and Behaviour of Plants? Maybe it is being best activity for you. You recognize beside you can spend your time together with your favorite's book, you can more intelligent than before. Do you agree with the opinion or you have different opinion?

**Katherine Sorenson:**

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**Evelyn Roberts:**

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**Heidi Crenshaw:**

The reason? Because this Physiology and Behaviour of Plants is an unordinary book that the inside of the publication waiting for you to snap the idea but latter it will shock you with the secret that inside. Reading this book next to it was fantastic author who write the book in such amazing way makes the content interior easier to understand, entertaining way but still convey the meaning fully. So , it is good for you for not hesitating having this nowadays or you going to regret it. This amazing book will give you a lot of advantages than the other book have got such as help improving your proficiency and your critical thinking method. So , still want to delay having that book? If I ended up you I will go to the publication store hurriedly.

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