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Plant Evolution and Adaptations

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Section CHAPTER 21 Quick Check Section 1: Plant Evolution ...

Section 1: Plant Evolution and Adaptations. Section 2: Nonvascular Plants. Section 3: Seedless Vascular Plants. Section 4: Vascular Seed Plants. Click on a lesson name to select. When scientists compare present-day plants and present-day green algae, they find the following common characteristics:

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Although angiosperms (flowering plants) are the major form of plant life in most biomes, gymnosperms still dominate some ecosystems, such as the taiga (boreal forests) and the alpine forests at higher mountain elevations (Figure 26.4) because of their adaptation to cold and dry growth conditions.

26.1 Evolution of Seed Plants - Biology | OpenStax

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Unit 7Unit 7 Unit 7 Plants Advance Planning

This class has three main goals: 1. To introduce you to basic plant biology by exploring plant senses (sight, smell, hearing, touch, taste, balance). 2. To introduce you to biological research and the scientific method.

1.8 Plant Evolution - Introduction | Coursera

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Although plants comprise more than 90% of all visible life, and land plants and algae collectively make up the most morphologically, physiologically, and ecologically diverse group of organisms on earth, books on evolution instead tend to focus on animals. This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory. Because plants grow and reproduce differently than animals, they have evolved differently, and generally accepted evolutionary views—as, for example, the standard models of speciation—often fail to hold when applied to them. Tapping such wide-ranging topics as genetics, gene regulatory networks, phenotype mapping, and multicellularity, as well as paleobotany, Karl J. Niklas's Plant Evolution offers fresh insight into these differences. Following up on his landmark book The Evolutionary Biology of Plants—in which he drew on cutting-edge computer simulations that used plants as models to illuminate key evolutionary theories—Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology, conveying not only why the study of evolution is so important, but also why the study of plants is essential to our understanding of evolutionary processes. Niklas shows us that investigating the intricacies of plant development, the diversification of early vascular land plants, and larger patterns in plant evolution is not just a botanical pursuit: it is vital to our comprehension of the history of all life on this green planet.

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Since the first edition of this book published in 2005, there has been an immense amount of new and fascinating work on the history, ecology, and evolution of the Mediterranean flora. During this time, human impacts have continued to increase dramatically, significantly influencing both the ecology and evolution of the region's biota. This timely and comprehensive update of the original text integrates a diverse and scattered literature to produce a synthetic account of Mediterranean plant evolutionary ecology. It maintains the accessible style of its previous version whilst incorporating recent work in a new structural framework. This is not a traditional "plant science" book per se, but a novel integration of history, ecology, biogeography, and evolution, all set in the context of a dramatically increasing human footprint. There is a particular emphasis on the role of human activities as an ecological factor and their subsequent impact on plant evolution. Conversely, it demonstrates how an understanding of the evolutionary ecology of the region's flora can be used to provide insights into its future conservation and management. Plant Evolution in the Mediterranean is aimed at all those who are interested in the biology of the Mediterranean region, whether it is taxonomy, ecology, evolution, conservation policy and management, or the regional history of its biodiversity in general. It will be of relevance and use to all graduate students and researchers of Mediterranean-type ecosystem ecology and geography, as well as professional ecologists, evolutionary biologists, conservation biologists, and environmental practitioners requiring a concise, authoritative overview of the topic.

Plant Development and Evolution, the latest release in the Current Topics in Developmental Biology series, highlights new advances in the field, with this new volume presenting interesting chapters on the Evolution of the plant body plan, Lateral root development and its role in evolutionary adaptation, the Development of the vascular system, the Development of the shoot apical meristem and phyllotaxis, the Evolution of leaf diversity, the Evolution of regulatory networks in land plants, The role of programed cell death in plant development, the Development and evolution of inflorescence architecture, the Molecular regulation of flower development, the Pre-meiotic another development, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Updated release includes the latest information on Plant Development and Evolution

This book is divided into two parts. Part 1 deals with the evolutionary processes, describing the chromosome structure, genetic variation, multifactorial genome, polyploidy, gene duplication and speciation. Part 2 deals with the origins of agriculture and the dynamics of plant domestication, covering some cereal grains, protein plants, starchy staple and sugar crops, as well as fruit, vegetable, fibre and oil crops. A chapter on ex situ and in situ conservation of germplasm resources is included.

What are the evolutionary mechanisms and ecological implications behind a pollinator choosing its favourite flower? Sixty-five million years of evolution has created the complex and integrated system which we see today and understanding the interactions involved is key to environmental sustainability. Examining pollination relationships from an evolutionary perspective, this book covers both botanical and zoological aspects. It addresses the puzzling question of co-speciation and co-evolution and the complexity of the relationships between plant and pollinator, the development of which is examined through the fossil record. Additional chapters are dedicated to the evolution of floral displays and signalling, as well as their role in pollination syndromes and the building of pollination networks. Wide-ranging in its coverage, it outlines current knowledge and complex emerging topics, demonstrating how advances in research methods are applied to pollination biology.

As a part of plant science, plant reproduction is concerned with the study of production of new plants through asexual and sexual processes. It focuses on the crucial aspects of asexual reproduction, which include vegetative reproduction and apomixis and sexual reproduction, which include processes like meiosis and fertilization. This book presents the different concepts and methods related to the field of plant reproduction. Different approaches, evaluations and methodologies have been included in it. This textbook aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.

Woody plants such as trees have a significant economic and climatic influence on global economies and ecologies. This completely revised classic book is an up-to-date synthesis of the intensive research devoted to woody plants published in the second edition, with additional important aspects from the authors' previous book, Growth Control in Woody Plants. Intended primarily as a reference for researchers, the interdisciplinary nature of the book makes it useful to a broad range of scientists and researchers from agroforesters, agronomists, and arborists to plant pathologists and soil scientists. This third edition provides crutial updates to many chapters, including: responses of plants to elevated CO2; the process and regulation of cambial growth; photoinhibition and photoprotection of photosynthesis; nitrogen metabolism and internal recycling, and more. Revised chapters focus on emerging discoveries of the patterns and processes of woody plant physiology. * The only book to provide recommendations for the use of specific management practices and experimental procedures and equipment *Updated coverage of nearly all topics of interest to woody plant physiologists * Extensive revisions of chapters relating to key processes in growth, photosynthesis, and water relations * More than 500 new references * Examples of molecular-level evidence incorporated in discussion of the role of expansion proteins in plant growth; mechanism of ATP production by coupling factor in photosynthesis; the role of cellulose synthase in cell wall construction; structure-function relationships for aquaporin proteins

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