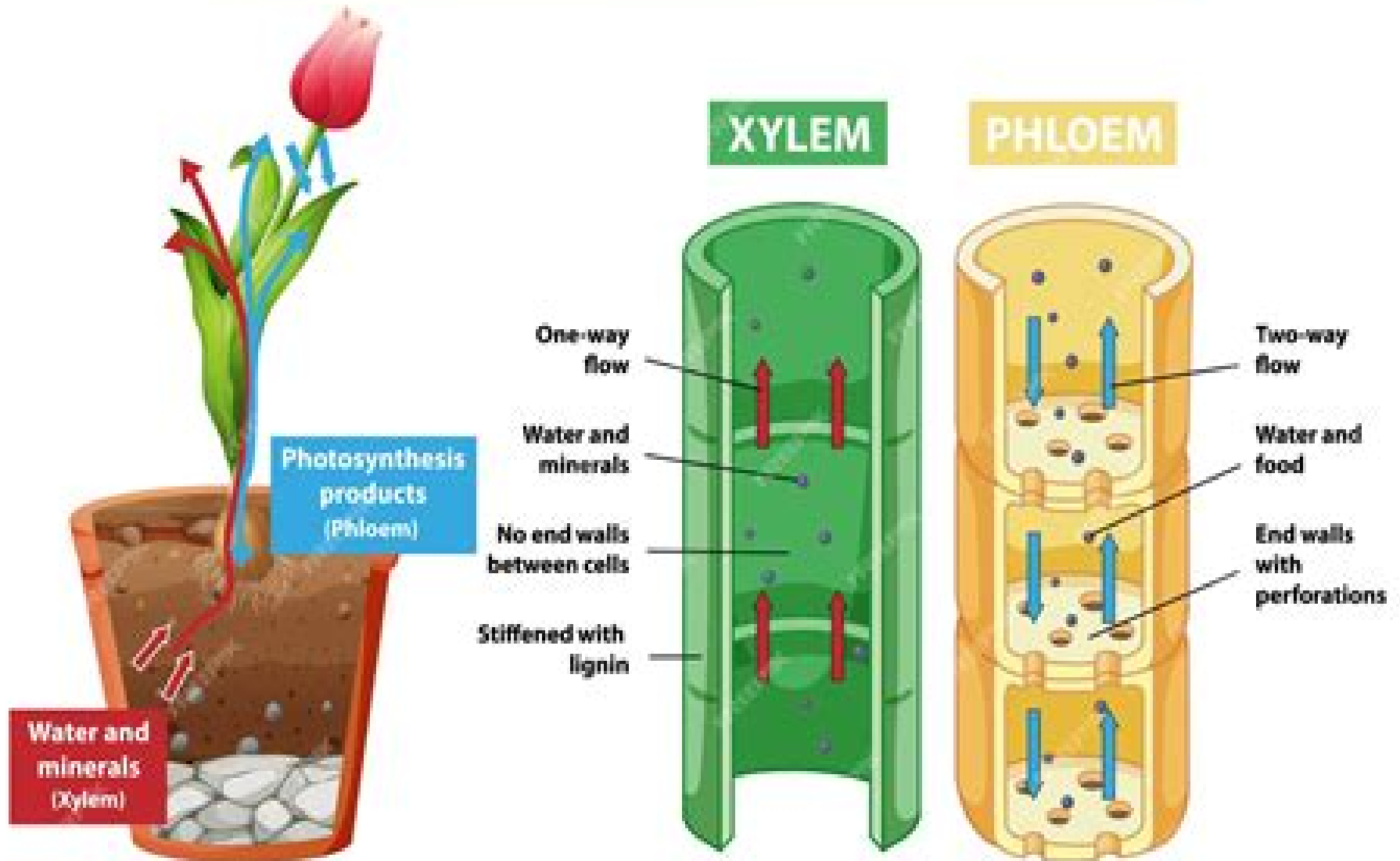


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Phloem Transport In Plants Biology Ser

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Transport in Plants I M.H. Zimmermann, J.A. Milburn, 2012-12-06 When WILHELM RUHLAND developed his plan for an Encyclopedia of Plant Physiology more than three decades ago biology could still be conveniently subdivided into classical areas Even within plant physiology subdivisions were not too difficult to make and general principles could be covered sufficiently in the two introductory volumes of the Encyclopedia on the physical and chemical basis of cell biology But the situation changed rapidly even during the 12 year publication period of the Encyclopedia 1955 1967 The new molecular direction of genetics and structural research on biopolymers had an integrating effect on all other biological fields including plant physiology and it became increasingly difficult to keep previously distinct areas separated RUHLAND'S overall plan included 18 volumes and about 22 000 pages It covered the entire field of plant physiology in most cases from the very beginning But as each volume appeared it was clear that its content would soon be outdated

Phloem Transport James Cronshaw, 1986-01-01 *The Biology of Crop Productivity* Peter S. Carlson, 2013-09-11 The Biology of Crop Productivity attempts to reassess and restate what is known about the biology underlying crop productivity The prime question which this volume attempts to address is What is known about the biology of crop productivity from a range of diverse biological disciplines and what needs to be known Is it possible to formulate the important biological questions can we begin to discern the biological mechanisms and limitations which underline crop production This volume is certainly not an all inclusive survey It attempts to supplement and explicate material presented in other volumes The volume is organized into five broad areas the first deals with various interactions of plants and their environments the second deals with the interactions of plants with other organisms the third treats some aspects of the internal organization of plants the fourth examines genetic manipulations utilizing plant materials and the fifth outlines a perspective for future research efforts This volume is intended primarily for persons interested or actively engaged in research in the agricultural plant sciences

Vascular Transport in Plants N. Michelle Holbrook, Maciej A. Zwieniecki, 2011-09-06 Vascular Transport in Plants provides an up to date synthesis of new research on the biology of long distance transport processes in plants It is a valuable resource and reference for researchers and graduate level students in physiology molecular biology physiology ecology ecological physiology development and all applied disciplines related to agriculture horticulture forestry and biotechnology The book considers long distance transport from the perspective of molecular level processes to whole plant function allowing readers to integrate information relating to vascular transport across multiple scales The book is unique in presenting xylem and phloem transport processes in plants together in a comparative style that emphasizes the important interactions between these two parallel transport systems Includes 105 exceptional figures Discusses xylem and phloem transport in a single volume highlighting their interactions Synthesizes of structure function and biology of vascular transport by leading authorities Poses unsolved questions and stimulates future research Provides a new conceptual framework for vascular

function in plants **Botany: An Introduction to Plant Biology** James D. Mauseth, 2019-11-25 Botany An Introduction to Plant Biology Seventh Edition provides a modern and comprehensive overview of the fundamentals of botany while retaining the important focus of natural selection analysis of botanical phenomena and diversity **Cell Biology of Metals and Nutrients** Rüdiger Hell, Ralf-Rainer Mendel, 2010-03-10 Plants are composed of 17 essential and at least 5 beneficial elements and these must be taken up as metal or nutrient ions to allow for growth and cell division Much effort has been devoted to studying the physiology and biochemistry of metals and nutrients in plants The aspect of cell biology however is an emerging new field and much needs to be learned about sensing long distance communication within plants and cellular signal transduction chains in response to environmental stress Cellular malfunction and consequently disease result when any of the key steps in metal and nutrient homeostasis are disrupted Working together leading experts in their respective fields provide a new concept that reaches beyond plant nutrition and plasmalemma transport into cellular physiology Each chapter contains basic information on uptake physiological function deficiency and toxicity syndromes long distance and intracellular transport The discussion is devoted to metals and nutrients where recent progress has been made and highlights the aspects of homeostasis and sensing signaling and regulation drawing parallels to other organisms including humans Finally the book identifies gaps in our current knowledge and lays out future research directions **Annual Review of Plant Biology**, 2009 *Discoveries In Plant Biology (Volume Ii)* Shain-dow Kung, Shang-fa Yang, 1998-12-31 Scientific progress hinges on continual discovery and the extension of previous discoveries The important series of volumes Discoveries in Plant Biology is specially compiled to provide a microcosmic atlas of the landmark discoveries that span the breadth of plant biology Written by renowned plant biologists the papers describe how classic discoveries were made and how they have served as the basis for subsequent breakthroughs The 19 chapters in this second volume describe discoveries which contribute to the foundations of modern plant biology The contributors many of whom personally lit the way bring readers back in time as if on a journey to retrace the paths and rethink the ideas they followed These guided tours on how to decipher the natural laws will lead to an appreciation of the development of each field from simple concepts to an advanced multidisciplinary field of today This volume will be of special interest to botanists biochemists plant physiologists and geneticists and of general interest to those who are still fascinated by how discoveries are made **Annual Review of Plant Physiology and Plant Molecular Biology**, 1997 *The Biology of Seaweeds* Christopher S. Lobban, Michael James Wynne, Lobban, 1981-01-01 **Biology of Root Formation and Development** Arie Altman, Yoav Waisel, 2012-12-06 This book contains the majority of the presentations of the Second International Symposium on the Biology of Root Formation and Development that was held in Jerusalem Israel June 23-28 1996 Following the First Symposium on the Biology of Adventitious Root Formation held in Dallas USA 1993 we perceived the need to include all kinds of roots not only the shoot borne ones The endogenous signals that control root formation and the subsequent growth and development processes are very

much alike regardless of the sites and sources of origin of the roots Therefore we included in the Second Symposium contributions on both shoot borne i.e. adventitious roots and root borne i.e. lateral roots Plant roots have remained an exciting and an intriguing field of science During the years that followed the first symposium an exceptional proliferation of interest in root biology has developed associated with the intensive research activity in this field and the contemporary developments in the understanding of root function and development New methods have been applied and old ideas and interpretations were reexamined Altogether it became necessary to update our viewpoints and to expand them **Plant Cell Biology** Randy O.

Wayne, 2024-11-15 **Plant Cell Biology From Astronomy to Zoology Third Edition** connects the fundamentals of plant anatomy plant physiology plant growth and development plant taxonomy plant biochemistry plant molecular biology and plant cell biology It covers all aspects of plant cell biology without emphasizing any one plant organelle molecule or technique Although most examples are biased towards plants basic similarities between all living eukaryotic cells animal and plant are recognized and used to best illustrate cell processes This is a must have reference for scientists with a background in plant anatomy plant physiology plant growth and development plant taxonomy and more Includes chapter on using mutants and genetic approaches to plant cell biology research and a chapter on omic technologies Explains the physiological underpinnings of biological processes to bring original insights relating to plants Includes examples throughout from physics chemistry geology and biology to bring understanding on plant cell development growth chemistry and diseases Provides the essential tools for students to be able to evaluate and assess the mechanisms involved in cell growth chromosome motion membrane trafficking and energy exchange *Subject Guide to Books in Print*, 1993 **Proceedings of the 1987**

International Deepwater Rice Workshop, 1988 Phloem Gary A. Thompson, Aart J.E. van Bel, 2012-08-13 **Phloem Molecular Cell Biology Systemic Communication Biotic Interactions** is a timely collection of research on the cellular and molecular biology of this plant vascular tissue Recent advances in phloem research have revealed the centrality of this plant tissue to whole plant development and physiology Building on advances made through developments of new analytical technologies this book will provide readers with a current and comprehensive reference on the role of phloem in plant growth and development Collecting the work of a global team of leading researchers **Phloem** will provide the reader with a valuable synthesis of the latest research in a single volume Phloem transport in plants Alden Springer Crafts, 1971

International Review of Cytology, 1997-11-17 **International Review of Cytology** presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Authored by some of the foremost scientists in the field each volume provides up to date information and directions for future research Karyotypic Evolution of Cells in Culture Sucrose Transport in Higher Plants Interaction of Cytoskeletal Proteins with membrane Lipids The Cell Biology of Autoimmune Diseases Multiple Forms of Tubulin Different Gene Products and Covalent

Modifications Translocation of Proteins across the ER Membrane **Biology and Ecology of Norway Spruce** Mark G. Tjoelker, Adam Boratynski, Władysław Bugała, 2007-05-29 This is a concise and comprehensive review of the biology ecology and management of Norway spruce Written by 25 experts in the field and richly illustrated it integrates classic and contemporary literature More than 2000 works are cited in the text which highlights basic research and forestry practices in central and Eastern Europe The huge range of topics covered includes the species morphology its physiology and nutrition and its ecology Assimilate Transport in Plants Andreï L'vovich Kursanov, 1984 **Handbook of Flowering** Abraham H. Halevy, 2019-07-23 These volumes are an exhaustive source of information on the control and regulation of flowering They present data on the factors controlling flower induction and how they may be affected by climate and chemical treatments For each plant specific information is provided on all aspects of flower development including sex expression requirements for flowering initiation and development photoperiod light density vernalization and other temperature effects and interactions Individual species are described from the standpoint of juvenility and maturation morphology induction and morphogenesis to anthesis All information is presented alphabetically for easy reference

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