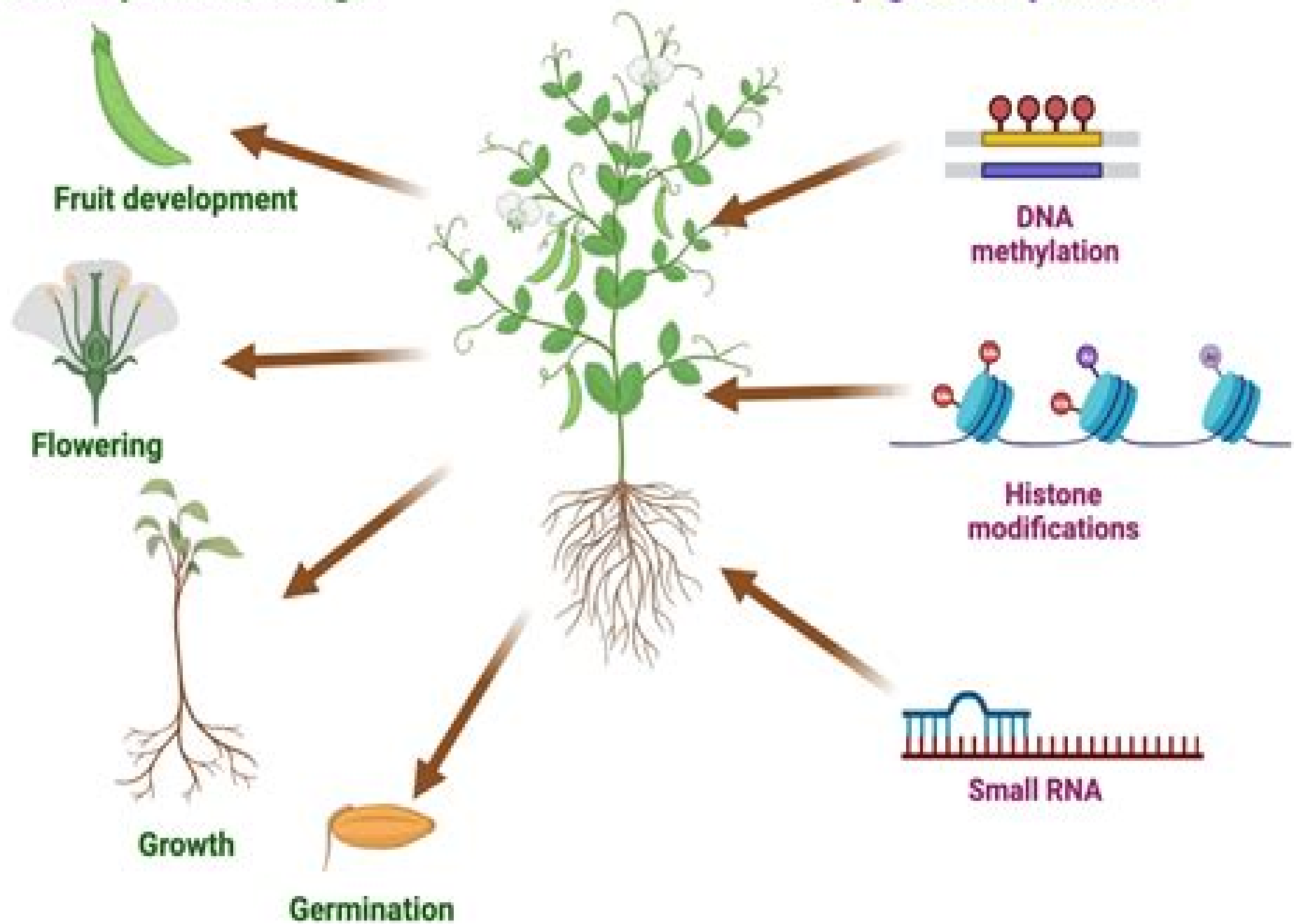


## Developmental stage

## Epigenetic process



# Mechanisms In Plant Development

**Wilhelm Pfeffer**



## **Mechanisms In Plant Development:**

Mechanisms in Plant Development Ottoline Leyser, Stephen Day, 2009-04-01 Intended for undergraduate and graduate courses in plant development this book explains how the cells of a plant acquire and maintain their specific fates Plant development is a continuous process occurring throughout the life cycle with similar regulatory mechanisms acting at different stages and in different parts of the plant Rather than focussing on the life cycle the book is structured around these underlying mechanisms using case studies to provide students with a framework to understand the many factors both environmental and endogenous that combine to regulate development and generate the enormous diversity of plant forms New approach to the study of plant development and a refreshing look at this fast moving area Authors focus their discussion on the basic mechanisms which underpin plant development tackling the fundamental question of how a single cell becomes a complex flowering plant from a cellular perspective An up to date modern text in plant development for advanced level undergraduates and postgraduates in plant science Thought provoking treatment of a difficult subject the text will satisfy the needs of advanced level undergraduates and postgraduates in plant science Experimental case studies throughout The artwork from the book is available at [www.blackwellpublishing.com/leyser](http://www.blackwellpublishing.com/leyser) **Mechanisms in Plant Development** Ottoline Leyser, Stephan Day, 2012-01-20 Intended for undergraduate and graduate courses in plant development this book explains how the cells of a plant acquire and maintain their specific fates Plant development is a continuous process occurring throughout the life cycle with similar regulatory mechanisms acting at different stages and in different parts of the plant Rather than focussing on the life cycle the book is structured around these underlying mechanisms using case studies to provide students with a framework to understand the many factors both environmental and endogenous that combine to regulate development and generate the enormous diversity of plant forms New approach to the study of plant development and a refreshing look at this fast moving area Authors focus their discussion on the basic mechanisms which underpin plant development tackling the fundamental question of how a single cell becomes a complex flowering plant from a cellular perspective An up to date modern text in plant development for advanced level undergraduates and postgraduates in plant science Thought provoking treatment of a difficult subject the text will satisfy the needs of advanced level undergraduates and postgraduates in plant science Experimental case studies throughout The artwork from the book is available at [www.blackwellpublishing.com/leyser](http://www.blackwellpublishing.com/leyser) **Control Mechanisms in Plant Development** Arthur W. Galston, Peter J. Davies, 1970 Phytochrome and flowering Ethylene Auxin and tropisms Gibberellins Cytokinins Absciscic acid dormancy and germination Reactions to injury Senescence and abscission *Plant Growth and Development* Donald E. Fosket, 2012-12-02 Plant Growth and Development A Molecular Approach presents the field of plant development from both molecular and genetic perspectives This field has evolved at a rapid rate over the past five years through the increasing exploitation of the remarkable plant *Arabidopsis* The small genome rapid life cycle and ease of transformation of *Arabidopsis* as well as the

relatively large number of laboratories that are using this plant for their research have lead to an exponential increase in information about plant development mechanisms In *Plant Growth and Development A Molecular Approach* Professor Fosket synthesizes this flood of new information in a way that conveys to students the excitement of this still growing field His textbook is based on notes developed over more than ten years of teaching a course on the molecular analysis of plant growth and development and assumes no special knowledge of plant biology It is intended for advanced undergraduates in plant development as well as those in plant molecular biology Graduate students and researchers who are just beginning to work in the field will also find much valuable information in this book Each chapter concludes with questions for study and review as well as suggestions for further reading Illustrated with two color drawings and graphs throughout and containing up to date and comprehensive coverage *Plant Growth and Development A Molecular Approach* will excite and inform students as it increases their understanding of plant science Presents plant development from a molecular and cellular perspective Illustrates concepts with two colour diagrams throughout Offers key study questions and guides to further reading within each chapter Gives an up to date and thorough treatment of this increasingly important subject area Derived from the author s many years of teaching plant developmental biology *Roles and regulatory mechanisms of microRNA in plant development, evolution, and adaptation* Lei Li,Xiuren Zhang,Xiaozeng Yang,Turgay Unver,2022-09-23

*Low-Temperature Stress in Plants: Molecular Responses, Tolerance Mechanisms, Plant Biodesign and Breeding Applications* Jin Xu,Tangchun Zheng ,Douglas S. Domingues,Yang Liu,Ping Li ,Sagheer Ahmad,2024-05-17 Low temperature stress is the primary abiotic stress that affects the growth and development of plants and their geographical distribution This can lead to the solidification of membrane lipids and decrease of enzymatic reaction rate in plants in a relatively short time or indirectly affect the imbalance of respiration and photosynthesis accumulation of toxic substances ATP depletion cell solute leakage and wilting due to water loss Low temperature stress can be divided into chilling stress and freezing stress according to the damage caused to plants Both chilling and freezing stress drastically threaten global food security and species diversity in the northern and frigid temperate zones Once plants experience low temperature stress the regulation mechanism of gene expression is rapidly activated to cope with the adverse environment *Basic Mechanisms in Plant Morphogenesis* Brookhaven National Laboratory. Biology Department,1974 **Phytohormones** Mohamed A. El-Esawi,2017-08-16 Phytohormones are regulatory compounds that play crucial roles in plants This book brings together recent work and progress that has recently been made in the dynamic field of phytohormone regulation in plant development and stress responses It also provides new insights and sheds new light regarding the exciting hormonal cross talk phenomenon in plants This book will provoke interest in many readers and scientists who can find this information useful for the advancement of their research works *Control Mechanisms in Plant Development* Arthur William Galston,Peter J. Davies,1970 Mechanisms of development Richard G. Ham,Marilyn J. Veomett,1980 **Mechanisms in Plant**

**Development**, 2013 This meeting has been held every other year for the past twenty two years and is the only regularly held meeting focused specifically on plant development Topics covered included patterning in developing tissues short and long distance signaling differentiation of cell types the role of epigenetics in development evolution growth **Evolutionary Conservation of Developmental Mechanisms** Society for Developmental Biology. Symposium, 1993 Hormonal Regulation in Plant Growth and Development Harald Kaldewey, Yusuf Vardar, 1972 **Phytohormones** Mohamed El-Esawi, 2017 **Plant Developmental Biology - Biotechnological Perspectives** Eng Chong Pua, Michael R. Davey, 2009-10-29 Many exciting discoveries in recent decades have contributed new knowledge to our understanding of the mechanisms that regulate various stages of plant growth and development Such information coupled with advances in cell and molecular biology is fundamental to crop improvement using biotechnological approaches Two volumes constitute the present work The first comprising 22 chapters commences with introductions relating to gene regulatory models for plant development and crop improvement particularly the use of Arabidopsis as a model plant These chapters are followed by specific topics that focus on different developmental aspects associated with vegetative and reproductive phases of the life cycle of a plant Six chapters discuss vegetative growth and development Their contents consider topics such as shoot branching bud dormancy and growth the development of roots nodules and tubers and senescence The reproductive phase of plant development is in 14 chapters that present topics such as floral organ initiation and the regulation of flowering the development of male and female gametes pollen germination and tube growth fertilization fruit development and ripening seed development dormancy germination and apomixis Male sterility and self incompatibility are also discussed **List of Research Workers, 1981, in the Agricultural Sciences in the Commonwealth** Commonwealth Agricultural Bureaux. Executive Council, Commonwealth Agricultural Bureau, 1981 **Plant Growth and Development** Aldo Carl Leopold, 1964 The cell and its habitat Assimilation Photosynthesis Organic translocation Inorganic translocation Mobilization Auxins Gibberellins Kinins Inhibitors Differential growth Development Juvenility Senescence Flowering Flower physiology Fruit set Fruit growth Fruit ripening Tuber and bulb formation Dormancy Environmental physiology Light Radiation Temperature Water Chemical modification of plants Applications of chemicals to plants **Control Mechanism in Plant Development. Galston** Peter J. Davies, Arthur W. Galston, 1970 *New Insights into Mechanisms of Epigenetic Modifiers in Plant Growth and Development* Ming Luo, Gabino Ríos, Tomasz Jacek Sarnowski, Shoudong Zhang, Marc Libault, Nitin Mantri, Jean-Benoit Charron, 2020-02-12 *Introduction. Physiological morphology. Imbibition and molecular structure. Mechanism of absorption and translocation. The mechanism of gaseous exchange. Movements of water. The food of plants. Constructive and destructive metabolism. Respiration and fermentation. Translocation* Wilhelm Pfeffer, 1900

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