



# Seed Biology

ADVANCES AND  
APPLICATIONS

Edited by  
M. Black,  
K.J. Bradford  
J. Vázquez-Ramos



CABI Publishing

# Seed Biology Advances And Applications

**Amarjit Basra**



## **Seed Biology Advances And Applications:**

**Seed Biology** Michael Black, K. J. Bradford, Jorge Vázquez-Ramos, 2000 Substantial progress has been made in seed science during the past few years emphasizing the important role seed biology plays in advancing plant biotechnology agriculture and plant resource management and conservation This book describes the status of seed research and technology

**Seed Biology** Theodore Thomas Kozlowski, 1972 Insects and Seed Production Seed Collecting and Identification Seed Storage and Longevity Insects Attacking Seed During Storage Essentials of Seed Testing Seed Certification New Challenges in Seed Biology Susana Araújo, Alma Balestrazzi, 2016-10-12 New Challenges in Seed Biology Basic and Translational Research Driving Seed Technology combines different aspects of basic and translational research in seed biology A collection of eight chapters written by seed biology experts from the field of seed physiology ecology molecular biology biochemistry and seed technology was gathered We hope that this book will attract the attention of researchers and technologists from academia and industry providing points for interactive and fruitful discussion on this fascinating topic

Handbook of Seed Physiology Roberto Benech-Arnold, Rodolfo Sánchez, 2004-09-21 The latest findings in seed physiology discussed as they relate to agricultural problems Presenting the latest findings in the area of seed physiology as well as the practical applications of that knowledge in the field the Handbook of Seed Physiology Applications to Agriculture provides a comprehensive view of seed biology and it Advances in Seed Priming Amitava Rakshit, Harikesh Bahadur Singh, 2018-06-07 Most crop plants grow in environments that are suboptimal which prevents the plants from attaining their full genetic potential for growth and reproduction Stress due to abiotic and biotic agents has a significant effect on world food production Annually an estimated 15% of global yields are lost but this figure belies far greater losses for specific food systems and the people whose existence is dependent upon them particularly in developing countries Current efforts to mitigate these losses are worryingly over reliant on the use of sophisticated and costly chemical measures with substantial economic and environmental costs or on the development of efficient and smart crop varieties which can take decades What we need is a broad range of safe robust and equitable solutions for food producers One under investigated approach is that of utilizing the crop plant's innate immune system to resist stress More specifically the innate immune system can be sensitized or primed to respond more quickly and strongly to protect the plant against stresses However a strategy of employing priming in combination with reduced pesticide use can enhance protection and help to meet commitments to reducing chemical inputs in agriculture This book discusses in detail different segments of priming in addressing stress factors and traits to increase competitiveness against all odds Adopting a holistic and systematic approach it addresses priming to counter climate change related adverse effects coupled with pest and pathogen related stress on the productivity of crops utilizing natural resources to reap sustainable environmental economic and social benefits for potential productivity of crops maintaining synergy between soil water and plants in ways that mimic nature **Seeds** Carol C. Baskin, Jerry M.

Baskin,2014-02-20 The new edition of Seeds contains new information on many topics discussed in the first edition such as fruit seed heteromorphism breaking of physical dormancy and effects of inbreeding depression on germination New topics have been added to each chapter including dichotomous keys to types of seeds and kinds of dormancy a hierarchical dormancy classification system role of seed banks in restoration of plant communities and seed germination in relation to parental effects pollen competition local adaption climate change and karrikinolide in smoke from burning plants The database for the world biogeography of seed dormancy has been expanded from 3 580 to about 13 600 species New insights are presented on seed dormancy and germination ecology of species with specialized life cycles or habitat requirements such as orchids parasitic aquatics and halophytes Information from various fields of science has been combined with seed dormancy data to increase our understanding of the evolutionary phylogenetic origins and relationships of the various kinds of seed dormancy and nondormancy and the conditions under which each may have evolved This comprehensive synthesis of information on the ecology biogeography and evolution of seeds provides a thorough overview of whole seed biology that will facilitate and help focus research efforts Most wide ranging and thorough account of whole seed dormancy available Contains information on dormancy and germination of more than 14 000 species from all the continents even the two angiosperm species native to the Antarctica continent Includes a taxonomic index so researchers can quickly find information on their study organism s and Provides a dichotomous key for the kinds of seed dormancy Topics range from fossil evidence of seed dormancy to molecular biology of seed dormancy Much attention is given to the evolution of kinds of seed dormancy Includes chapters on the basics of how to do seed dormancy studies on special groups of plants for example orchids parasites aquatics halophytes and one chapter devoted to soil seed banks Contains a revised up dated classification scheme of seed dormancy including a formula for each kind of dormancy Detailed attention is given to physiological dormancy the most common kind of dormancy on earth

**Handbook of Seed Science and Technology** Amarjit Basra,2024-11-01 A reference text with the latest information and research for educators students and researchers World hunger and malnutrition remain an alarming concern that spurs researchers to develop quality technology The Handbook of Seed Science and Technology is an extensive reference text for educators students practitioners and researchers that focuses on the underlying mechanisms of seed biology and the impact of powerful biotechnological approaches on world hunger malnutrition and consumer preferences This comprehensive guide provides the latest available research from noted experts pointing out the likely directions of future developments as it presents a wealth of seed biology and technological information Seed science is the all important foundation of plant science study The Handbook of Seed Science and Technology provides an integrative perspective that takes you through the fundamentals to the latest applications of seed science and technology This resource provides a complete overview divided into four sections Seed Developmental Biology and Biotechnology Seed Dormancy and Germination Seed Ecology and Seed Technology The Handbook of Seed Science and Technology examines the molecular

control of ovule development female gametophyte development cytokinins and seed development grain number determination in major grain crops metabolic engineering of carbohydrate supply in plant reproductive development enhancing the nutritive value of seeds by genetic engineering the process of accumulation of seed proteins and using biotechnology to improve crops synthetic seeds dormancy and germination hormonal interactions during dormancy release and germination photoregulation of seed germination seed size seed predation natural defense mechanisms in seeds seed protease inhibitors soil seed banks the ecophysiological basis of weed seed longevity in the soil seed quality testing seed vigor and its assessment diagnosis of seed borne pathogens seed quality in vegetable crops vegetable hybrid seed production practical hydration of seeds of tropical crops seed technology in plant germplasm *The Handbook of Seed Science and Technology* is extensively referenced and packed with tables and diagrams and makes an essential source for students educators researchers and practitioners in seed science and technology      **Seed Fate** J. E. Lambert, P. E. Hulme, S. B. Vander Wall, 2005 This book presents current knowledge of seed fate in both natural and human disturbed landscapes from various regions of the world Habitats considered range from mountain and arid deserts in the temperate zone to savanna and lowland rainforests in tropical regions of the world Particular attention is paid to plant diversity conservation when seed removal is affected by factors such as hunting habitat fragmentation or intensive logging Contributors include leading scientists involved in research on seed ecology and on animal plant relationships from the perspective of both primary and secondary seed dispersal and predation      *Fruit and Vegetable Biotechnology* V Valpuesta, 2002-03 The genetic modification of foods is one of the most significant developments in food processing and one of the most controversial This important collection reviews its application to fruit and vegetables Part 1 looks at techniques and their applications in improving production and product quality Part 2 discusses how genetic modification has been applied to specific crops whilst Part 3 considers safety and consumer issues      *The Encyclopedia of Seeds* J. Derek Bewley, Michael Black, Peter Halmer, 2006 This is the first scholarly reference work to cover all the major scientific themes and facets of the subject of seeds It outlines the latest fundamental biological knowledge about seeds together with the principles of agricultural seed processing storage and sowing the food and industrial uses of seeds and the roles of seeds in history economies and cultures With contributions from 110 expert authors worldwide the editors have created 560 authoritative articles illustrated with plentiful tables figures black and white and color photographs suggested further reading matter and 670 supplementary definitions The contents are alphabetically arranged and cross referenced to connect related entries      *Botany* John Mworio, 2012-03-16 This book is devoted to botany and covers topical issues in this diverse area of study The contributions are designed for researchers graduate students and professionals The book also presents reviews of current issues in plant environment interactions making it useful to environmental scientists as well The book is organized in three sections The first section includes contributions on responses to flood stress tolerance to drought and desiccation phytotoxicity to Chromium and Lead the

second has aspects of economic botany including a review of Smut disease in sugarcane and properties of plant extract used Tassaboount date juice the last covers topical issues on morphogenesis and genetics on cotton fiber special cell secretory glands Asphodelus aestivus flower pollen tube growth in Leucojum aestivum morphological studies of Ardisia crenata complex and hybrid lethality in the Genus Nicotiana

### **Biostimulants for Crops from Seed Germination to Plant**

**Development** Shubhpriya Gupta, Johannes Van Staden, 2021-06-23 Biostimulants for crops from seed germination to plant development focuses on the effects and roles of natural biostimulants in every aspect of plant growth development to reduce the use of harmful chemical fertilizers and pesticides Biostimulants are a group of substances of natural origin that offer a potential to reduce the dependency on harmful chemical fertilizers causing environmental degradation While there is extensive literature on biostimulants there remains a gap in understanding how natural biostimulants work and their practical application This book fills that gap presenting the ways in which biostimulants enhance seed vigor and plant productivity by looking into their mode of action an area still being researched for deeper understanding Exploring the roles of seed germination pollen tube formation pollen pistil interaction flower and fruit setting to plant pigments rhizospheric and soil microorganisms the book also sheds light on the challenges and realistic opportunities for the use of natural

biostimulants Approaches biostimulant research with the goal of transforming scientific research into practical application Includes real world examples from laboratory greenhouse and field experiments Presents the biochemical physiological and molecular mode of action of biostimulants

Lives of Weeds John Cardina, 2021-09-15 Lives of Weeds explores the tangled history of weeds and their relationship to humans Through eight interwoven stories John Cardina offers a fresh perspective on how these tenacious plants came about why they are both inevitable and essential and how their ecological success is ensured by determined efforts to eradicate them Linking botany history ecology and evolutionary biology to the social dimensions of humanity's ancient struggle with feral flora Cardina shows how weeds have shaped and are shaped by the way we live in the natural world Weeds and attempts to control them drove nomads toward settled communities encouraged social stratification caused environmental disruptions and have motivated the development of GMO crops They have snared us in social inequality and economic instability infested social norms of suburbia caused rage in the American heartland and played a part in perpetuating pesticide use worldwide Lives of Weeds reveals how the technologies directed against weeds underlie ethical questions about agriculture and the environment and leaves readers with a deeper understanding of how the weeds around us are entangled in our daily choices

### *Annual Plant Reviews, Seed Development, Dormancy and*

*Germination* Kent Bradford, Hiro Nonogaki, 2008-04-15 The formation dispersal and germination of seeds are crucial stages in the life cycles of gymnosperm and angiosperm plants The unique properties of seeds particularly their tolerance to desiccation their mobility and their ability to schedule their germination to coincide with times when environmental conditions are favorable to their survival as seedlings have no doubt contributed significantly to the success of seed bearing

plants Humans are also dependent upon seeds which constitute the majority of the world's staple foods e.g. cereals and legumes Seeds are an excellent system for studying fundamental developmental processes in plant biology as they develop from a single fertilized zygote into an embryo and endosperm in association with the surrounding maternal tissues As genetic and molecular approaches have become increasingly powerful tools for biological research seeds have become an attractive system in which to study a wide array of metabolic processes and regulatory systems Seed Development Dormancy and Germination provides a comprehensive overview of seed biology from the point of view of the developmental and regulatory processes that are involved in the transition from a developing seed through dormancy and into germination and seedling growth It examines the complexity of the environmental physiological molecular and genetic interactions that occur through the life cycle of seeds along with the concepts and approaches used to analyze seed dormancy and germination behavior It also identifies the current challenges and remaining questions for future research The book is directed at plant

developmental biologists geneticists plant breeders seed biologists and graduate students **Handbook of Plant and Crop Physiology, Third Edition** Mohammad Pessarakli, 2014-03-21 Continuous discoveries in plant and crop physiology have resulted in an abundance of new information since the publication of the second edition of the Handbook of Plant and Crop Physiology necessitating a new edition to cover the latest advances in the field Like its predecessors the Third Edition offers a unique complete collection of topics in plant and crop physiology serving as an up to date resource in the field This edition contains more than 90 percent new material and the remaining 10 percent has been updated and substantially revised Divided into nine parts to make the information more accessible this handbook covers the physiology of plant and crop growth and development cellular and molecular aspects and production processes It addresses the physiological responses of plants and crops to environmental stresses heavy metals and agrichemicals presents findings on small RNAs in response to temperature stress and discusses the use of bioinformatics in plant crop physiology The book deals with the impacts of rising CO<sub>2</sub> levels and climate change on plant crop growth development and production It also offers guidance on plants and crops that can be successfully cultivated under more stressful conditions presented in six chapters that examine alleviation of future food security issues With contributions from 105 scientists from 17 countries this book provides a comprehensive resource for research and for university courses covering plant physiological processes ranging from the cellular level to whole plants The content provided can be used to plan implement and evaluate strategies for dealing with plant and crop physiology problems This edition includes numerous tables figures and illustrations to facilitate comprehension of the material as well as thousands of index words to further increase accessibility to the desired information *Plant Desiccation Tolerance* Matthew A. Jenks, Andrew J. Wood, 2008-06-02 Plant desiccation tolerance is of great basic and applied scientific interest Understanding plant responses and adaptations to severe desiccation is key to applying desiccation tolerance research to the improvement of economically important crops Plant Desiccation Tolerance brings together a field of

international researchers to provide a current review of the advances in plant desiccation tolerance research The book is broken up into three sections Vegetative Desiccation Tolerance Desiccation Tolerance of Pollen Spores and Seeds and Applications of Desiccation Tolerance Research Completely up to date and written by leading desiccation experts Plant Desiccation Tolerance will be of great interest to plant researchers and plant and crop science professionals *Advances in Seed Biology* Paolo A. Sabelli, Brian A. Larkins, 2015-11-11 The seed plays a fundamental role in plant reproduction as well as a key source of energy nutrients and raw materials for developing and sustaining humanity With an expanding and generally more affluent world population projected to reach nine billion by mid century coupled to diminishing availability of inputs agriculture is facing increasing challenges to ensure sufficient grain production A deeper understanding of seed development evolution and physiology will undoubtedly provide a fundamental basis to improve plant breeding practices and ultimately crop yields Recent advances in genetic biochemical molecular and physiological research mostly brought about by the deployment of novel high throughput and high sensitivity technologies have begun to uncover and connect the molecular networks that control and integrate different aspects of seed development and help determine the economic value of grain crops with unprecedented details The objective of this e book is to provide a compilation of original research articles reviews hypotheses and perspectives that have recently been published in *Frontiers in Plant Science* Plant Evolution and Development as part of the Research Topic entitled *Advances in Seed Biology* Editing this Research Topic has been an extremely interesting educational and rewarding experience and we sincerely thank all authors who contributed their expertise and in depth knowledge of the different topics discussed We hope that the information presented here will help to establish the state of the art of this field and will convey how exciting and important studying seeds is and hopefully will stimulate a new crop of scientists devoted to investigating the biology of seeds

**Seed Dormancy, Germination and Pre-Harvest Sprouting** Chengdao Li, Hiro Nonogaki, Jose Barrero, 2019-03-28 Pre harvest sprouting PHS and late maturity alpha amylase LMA are two of the biggest grain quality defects that grain growers encounter About 50 percent of the global wheat crop is affected by pre harvest sprouting to various degrees Pre harvest sprouting is a genetically based quality defect and results in the presence of alpha amylase in otherwise sound mature grain It can range from perhaps undetectable to severe damage on grain and is measured by the falling numbers or alpha amylase activity This is an international issue with sprouting damage lowering the value of crops to growers seed and grain merchants millers maltsters bakers other processors and ultimately the consumer As such it has attracted attention from researchers in many biological and non biological disciplines The 13th International Symposium on Pre Harvest Sprouting in Cereals was held 18-20 September 2016 in Perth to discuss current findings of grain physiology genetic pathways trait expression and screening methods related to pre harvest sprouting and LMA This event followed the previous symposium in 2012 in Canada

**Climate Change and Global Crop Productivity** K. R. Reddy, H. F. Hodges, 2000-04-25 Annotation Worldwide climatic changes have been raising



concerns about potential changes to crop yields and production systems. Such concerns include the ability to accommodate these uncertain effects in order to ensure an adequate food supply for an increasing population. Written by leading international experts, this book is the first comprehensive examination of the potential effects climate change, particularly green house gases, will have on agroecosystems. It also reviews the effects such systems have on climate change itself.

**"One Rotten Apple Spoils the Whole Barrel": The Plant Hormone Ethylene, the Small Molecule and its Complexity** Domenico De Martinis, Tomotsugu Koyama, Caren Chang, 2015-08-14

The gaseous molecule ethylene ( $C_2H_4$ ), which is small in size and simple in structure, is a plant hormone most often associated with fruit ripening, yet has a diversity of effects throughout the plant life cycle. While its agricultural effects were known even in ancient Egypt, the complexity of its mode of action and the broad spectrum of its effects and potential uses in plant physiology remain important scientific challenges today. In the last few decades, the biochemical pathway of ethylene production has been uncovered; ethylene perception and signaling have been molecularly dissected; ethylene responsive transcription factors have been identified; and numerous effects of ethylene have been described, ranging from water stress, development, senescence, reproduction, plant pathogen interactions, and, of course, ripening. Thus, ethylene is involved in plant development, in biotic and abiotic stress, and in reproduction. There is no stage in plant life that is not affected by ethylene, modulated by a complex and fascinating molecular machinery.

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