

BOOK REVIEW

Recent advances in the development and germination of seeds

Edited by R. B. Taylorson

Plenum, NY (NATO ARI Series), 1989. ISBN 0-306-43521-7 \$69.50 H/b

This book is a collection of the main papers, given at the Third International Workshop held in Williamsburg, USA, in 1989. Collections of the short papers and abstracts of poster presentations from the meeting were published earlier.

The book begins with a review by M. Black highlighting the important contributions that study of seeds has made to our understanding of plant development and control mechanisms. It ends with a summary by A. M. Mayer of the current state of play and a personal view of possible future developments. Both these chapters set the book nicely in context and clearly demonstrate the major contributions that studies of seeds have made to the mechanisms of plant development. In between these two 'pieces of bread' is a filling which is 'meat' for molecular biologists, biochemists and physiologists to get their teeth into. To a greater extent than in many reports of seed biology meetings this one emphasized the mechanistic aspects of seed biology and outlined a number of new approaches.

It is initially difficult to find one's way around this collection of papers. From the content of the chapters a grouping into 'seed development' as opposed to 'dormancy/germination' events could have been adopted; however, chapters on each appear to be mixed, it seems, at random.

Chapters on the use of transgenic plants and mutants indicate the growing importance of these approaches in unravelling the mechanisms controlling seed development, dormancy/germination. There is a comprehensive review of phytin in seeds, sites of and mechanisms of deposition and an outline of improved analytical procedures and techniques. An excellent discussion on membrane behaviour is included using pollen as a model system. Fourier transform infrared spectroscopy is used to measure gel to crystalline phase changes though its potential for studies on seeds has yet to be fully evaluated.

There are chapters on dormancy, demonstrating control of acid-soluble protein synthesis by ABA in dormant grain. There is an elegant analysis of the complex germination responses to light based on the finding that phytochrome exists as a molecular dimer.

A descriptive model based on a 'dose-response' approach to integrate the effect of light and nitrate is also outlined. There are two discussions of the regulation of metabolism in seeds, one on the relationships and interactions between phytochrome and growth-regulating substances and one outlining the potential role of Ca^{2+} as a 'stimulus-response' coupler in germination. Recent work suggests that the definition of differences in metabolism between dormant and non-dormant seeds is still elusive, though relationships between dormancy breaking activity of chemicals and the lipophilicity and/or molecular size are suggested. Apart from a few papers on water impermeability of seed coats in relation to germination and on the mechanisms of priming (or should this be more precisely, mechanisms of germination) there is little, surprisingly, on the role of water in seeds in relation to the initiation and control of cell elongation. Nor is there much on the mechanisms of seed longevity. Perhaps the next Conference in Angers in 1992 will address these issues.

Virtually all of the papers are concerned with 'natural' seeds though there is an authoritative review on the production of somatic embryos of agricultural and horticultural crop species and on the difficulties biologists face in developing a reliable synthetic seed technology.

Clearly, there is much in this book for those concerned with identifying mechanisms underlying seed developmental and germination response. But what is the potential value of the book for agronomists interested in exploiting such knowledge to improve seed quality and manipulate seed germination and seedling emergence? Chapters on changes in plant water status at specific stages on protein deposition and subsequent effects on germination performance, on dehydration tolerance/membrane behaviour, seed coat characteristics in relation to water uptake, discussions of the mechanisms underlying recalcitrant seed responses to drying, mechanisms of seed priming and the effects of dormancy-breaking chemicals in relation to their molecular size and lipophilicity provide good background information and useful pointers. Surprisingly, there is no dis-

Recent Advances In The Development And Germination Of Seeds

**Roberto Benech-Arnold, Rodolfo
Sánchez**



Recent Advances In The Development And Germination Of Seeds:

Recent Advances in the Development and Germination of Seeds R.B. Taylorson, 2012-12-06 These Proceedings are a product of the International Workshop on Seeds held in Williamsburg Virginia USA at the College of William and Mary during the week of August 6-11 1989 Sixty eight participants attended The location provided a scenic and historical setting for the excellent work presented Good facilities and amenities also contributed to the success of the meeting The Proceedings present the substance of the main lectures given at this meeting In addition there were 29 brief paper presentations and 30 poster presentations which have been summarized in abstract form in a separate publication This meeting represents the third such meeting of a diverse group of scientists interested in the behavior of seeds both in an agricultural sense and as tools for the advancement of more particular subject matter The first meeting was held in Jerusalem Israel in 1980 and the second in Wageningen The Netherlands in 1985 A fourth meeting is being planned The Editor and Organizer wishes to thank not only the contributors to this volume for their efforts but also all the other participants whose combined efforts made this meeting a great success

Seeds, 3rd Edition Robert S Gallagher, 2013-12-06 The 3rd edition of *Seeds The Ecology of Regeneration in Plant Communities* highlights the many advances in the field of seed ecology and its relationship to plant community dynamics that have taken place in recent years The new edition also features chapters on seed development and morphology seed chemical ecology implications of climate change on regeneration by seed and the functional role of seed banks in agricultural and natural ecosystems The book is aimed at advanced level students and researchers in the fields of seed science seed ecology and plant ecology

Recent Advances in Research and Development for Vegetable Crops Under Protected Cultivation Giao Nguyen, Zora Singh, 2024-08-05 Protected cropping shelters crops from extreme climatic conditions by modifying the internal growing conditions in their favor The technology has widely been used for vegetable crops in different climates such as temperate tropical subtropical arid and semi arid regions As climate change is projected to become more severe in the near future the resulting adverse weather conditions such as higher temperatures more frequent heatwaves more variable rainfall patterns and cyclones will affect vegetable production in turn affecting crop growth yield produce quality and economic return of growers The demand for protected cultivation will increase to ensure sustainable production and a stable supply of fresh horticultural produce

Seeds Handbook Babasaheb B. Desai, 2004-04-22 Revised and expanded throughout this latest edition of the bestselling *Seeds Handbook* Biology Production Processing and Storage includes valuable information on all areas of seed biology production and processing The author one of the most respected and prolific scientists in the field identifies current developments in seed testing and certification storage transportation and distribution Tracking the evolution and advancement of seed industries and technologies he fully covers the development and supply of high quality seeds for every key agronomic and horticulture crop Contains methods to enhance the genetic and physiological characteristics of more than 80 major and minor crops With an abundance of current

research and additional figures and illustrations this edition of the Seeds Handbook offers chapters on modern biotechnological issues such as the production of synthetic seeds loss reduction biotechnologies and new strategies in the seed production industry It provides in depth information on burgeoning areas of seed science including tissue culture and cellular totipotency induction and regeneration protocols development and maturation hormone requirements drying and storage of somatic embryos protective encapsulation and crop applications With an eye to the future it looks at challenges in the provision and enhancement of seeds for crop plants practical methods of seed production and micropropagation genetically modified seeds and world food security

Handbook of Seed Physiology Roberto Benech-Arnold, Rodolfo S?nchez, 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

Principles of Seed Science and Technology Lawrence O. Copeland, Miller F. McDonald, 2012-12-06 This Fourth Edition of Principles of Seed Science and Technology like the first three editions is written for the advanced undergraduate student or lay person who desires an introduction to the science and technology of seeds The first nine chapters present the seed as a biological system and cover its origin development composition function and sometimes nonfunction performance and ultimate deterioration The last nine chapters present the fundamentals of how seeds are produced conditioned evaluated and distributed in our modern agricultural society Two new chapters have been added in this fourth edition one on seed ecology and the second on seed drying Finally revisions have been made throughout to reflect changes that have occurred in the seed industry since publication of the Third Edition Because of the fundamental importance of seeds to both agriculture and to all of society we have taken great care to present the science and technology of seeds with the respect and feeling this study deserves We hope that this feeling will be communicated to our readers Furthermore we have attempted to present information in a straight forward easy to read manner that will be easily understood by students and lay persons alike Special care has been taken to address both current state of the art as well as future trends in seed technology

Seeds Steve W. Adkins, Sheldon C. Navie, Sarah Ashmore, 2007-01-01 These proceedings contain 43 papers on the aspects of seed conservation development biotechnology germination dormancy and ecology

Horticultural Reviews, Volume 16 Jules Janick, 2010-04-29 Horticultural Reviews presents state of the art reviews on topics in horticultural science and technology covering both basic and applied research Topics covered include the horticulture of fruits vegetables nut crops and ornamentals These review articles written by world authorities bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers

Recent Advances in the Conservation and Utilization of Genetic Resources Nathan Russell, 1988

Plant Regeneration from Seeds Carol C. Baskin, Jerry M. Baskin, 2022-03-17 Plant Regeneration from Seeds A Global Warming Perspective comprehensively reviews the effects caused by climate change on global plant

regeneration growth and seed germination Initial chapters discuss specific geographical regions such as steppes the arctic boreal and alpine zones dry and tropical forests and deserts Subsequent chapters explore special seed related topics like fire soil seed banks crops weed emergence and invasive species Written by leaders in the field of seed germination and plant growth this is an essential read for researchers and academics interested in plant growth plant regeneration seed germination and the effects of these in relation to climate change Guides readers through the global effects of climate change on plant growth and seed germination including chapters on special seed related topics Provides fundamental research on plant regeneration Includes detailed coverage on specific geographic regions Tropical Tree Seed Manual, 2002 Parasitic Plants M. Press, J. Graves, 1995-11-30 Parasitic plants are of great economic importance and cause huge crop losses worldwide They present unique biological aspects and control problems This title provides full coverage relating to the biology diversity and control of parasitic flowering plants and will be of great use to plant scientists agricultural and environmental scientists *Seed Germination in Desert Plants* Yitzchak Gutterman, 2012-12-06 During germination the most resistant stage of the life cycle the seed changes to the most sensitive stage namely the seedling Therefore in desert plant species seed dispersal and subsequent germination in the optimum time and place are particularly critical parameters Discussed here are the ways and means by which desert plants have adapted through the course of evolution to their extreme environment Two such strategies which have evolved are a plants with relatively large and protected seeds which germinate when the chance of seedling survival is high and the risk relatively low or b those with an opportunistic strategy minute seeds which germinate after low rainfall under high risk for seedling survival if additional rain does not follow Most species adopt a combination of the two mechanisms Species have adapted both genotypically and phenotypically both aspects of which are also discussed in this thorough text The reader is provided with a good understanding of the complex influences on each seed traced through from initial development to germination stage regarding germination preparation and subsequent survival *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 Agriculture Handbook, 2002 Set includes revised editions of some issues *Nitric Oxide in Plant Growth, Development and Stress Physiology* Lorenzo Lamattina, Joe C. Polacco, 2007-01-30 Recent advances in the study of nitric oxide NO biology biochemistry molecular biology and physiology in plants are presented in this book providing an overview of current understanding of the NO actions involved in adaptive

responses of plant fitness to environmental constraints The special emphasis is on NO dependent signalling molecular adjustments and targets as key elements in plant growth development and stress physiology The first part of the book is devoted to the description of key features related to NO biochemistry synthesis and metabolism and the modes of action involved The second part covers the functionality of NO in three central nodes of the plant life cycle growth development and stress physiology Finally a detailed analysis of the advantages and disadvantages of the use of fluorometric detection of NO in plant research brings to light information necessary for understanding the limitations of the method

A Protocol to Determine Seed Storage Behaviour T. D. Hong, R. H. Ellis, 1996 This publication provides an approach by which conservationists can determine whether or not long term seed storage is feasible for a particular species i e whether or not that species shows orthodox seed storage behaviour and provides advice on the implementation of the protocol examples of ways in which the results from seed storage studies could be misinterpreted due to confounding factors as well as several alternative approaches for estimating seed storage behaviour prior to carrying out actual investigations with the seeds In particular the latter section introduces the concept of a multicriteria approach for estimating seed storage behaviour

Somatic Embryogenesis in Woody Plants S. Mohan Jain, Pramod P.K. Gupta, R.J. Newton, 2012-12-06 The quality of human life has been maintained and enhanced for generations by the use of trees and their products In recent years ever rising human population growth has put tremendous pressure on trees and tree products growing awareness of the potential of previously unexploited tree resources and environmental pollution have both accelerated development of new technologies for tree propagation breeding and improvement Biotechnology of trees may be the answer to solve the problems which cannot be solved by conventional breeding methods The combination of biotechnology and conventional methods such as plant propagation and breeding may be a novel approach to improving and multiplying in large number the trees and woody plants So far plant tissue culture technology has largely been exploited in the propagation of ornamental plants especially foliage house plants by commercial companies Generally tissue culture of woody plants has been recalcitrant However limited success has been achieved in tissue culture of angiosperm and gymnosperm woody plants A number of recent reports on somatic embryogenesis in woody plants such as Norway spruce *Picea abies* Loblolly pine *Pinus taeda* Sandalwood *Santalum album* Citrus Mango *Mangifera indica* etc offer a ray of hope of an inexpensive clonal propagation for large scale production of plants or seedlings or somatic embryo plants by protoplast work cryopreservation genetic transformation and artificial or manufactured seed production

Growth Control in Woody Plants Theodore T. Kozlowski, Stephen G. Pallardy, 1997-01-21 The processes and mechanisms that control the growth of woody plants are of crucial importance for both economic and biological reasons The comprehensive coverage of Growth Control in Woody Plants includes discussion of the growth controlling factors in both reproductive structures flowers fruit seeds pollen etc and vegetative organs stems branches leaves and roots Other major topics covered include seed germination seedling growth physiological and

environmental regulation of growth cultural practices and biotechnology This comprehensive treatment of the many factors that control the growth of woody plants can serve both as a valuable text and as a frequently used reference Includes comprehensive representation of a broad subject Provides thorough bibliographic coverage Well illustrated Serves as a vital companion to Physiology of Woody Plants Second Edition *Soil Science: Fundamentals to Recent Advances* Amitava Rakshit, S.K Singh, P.C. Abhilash, Asim Biswas, 2021-07-30 This compilation has been designed to provide a comprehensive source of theoretical and practical update for scientists working in the broad field of soil science The book explores all possible mechanisms and means to improve nutrient use efficiencies involving developing and testing of nanofertilizers developing consortia based microbial formulations for mobilization of soil nutrients and engineering of nutrient efficient crops using molecular biology and biotechnological tools This is an all inclusive collection of information about soil science This book is of interest to teachers researchers soil scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of soil science quantitative ecology earth sciences GIS and geodetic sciences as well as geologists geomorphologists hydrologists and landscape ecology National and international agriculture and soil scientists policy makers will also find this to be a useful read

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