

# Seeds Physiology Of Development Germination And Dormancy 3rd Edition

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New York State Agricultural Experiment Station

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this updated and much revised third edition of seeds physiology of development germination and dormancy provides a thorough overview of seed biology and incorporates much of the progress that has been made during the past fifteen years with an emphasis on placing information in the context of the seed this new edition includes recent advances in the areas of molecular biology of development and germination as well as fresh insights into dormancy ecophysiology desiccation tolerance and longevity authored by preeminent authorities in the field this book is an invaluable resource for researchers teachers and students interested in the diverse aspects of seed biology

this text is intended for plant physiologists molecular biologists biochemists biotechnologists geneticists horticulturalists agromnomists and botanists and upper level undergraduate and graduate students in these disciplines it integrates advances in

the diverse and rapidly expanding field of seed science from ecological and demographic aspects of seed production dispersal and germination to the molecular biology of seed development the book offers a broad multidisciplinary approach that covers both theoretical and applied knowledge

by the year 2050 the world s population is expected to reach nine billion to feed and sustain this projected population world food production must increase by at least 50 percent on much of the same land that we farm today to meet this staggering challenge scientists must develop the technology required to achieve an evergreen revolution one

progress in nucleic acid research and molecular biology

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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

in response to enormous recent advances particularly in molecular biology the authors have revised their warmly received work this new edition includes updates on seed development gene expression dormancy and other subjects it will serve as the field s standard textbook and reference source for many years to come

containing its transactions and proceedings and a summary of current researches relating to zoology and botany principally invertebrata and cryptogamia microscopy c

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