

SEEDS

THE ECOLOGY OF REGENERATION
IN PLANT COMMUNITIES

3RD EDITION

ROBERT S. GALLAGHER



Seeds The Ecology Of Regeneration In Plant Communities

**Daniel M. Joel, Jonathan Gressel, Lytton
J. Musselman**



Seeds The Ecology Of Regeneration In Plant Communities:

Seeds M. (Ed.) FENNER, 2000 Reproductive allocation in plants The evolutionary ecology of seed size Maternal effects on seeds during development The ecology of seed dispersal Animals as seed dispersers Fruits and frugivory Seed predators and plant populations dynamics Dormancy viability and longevity The functional ecology of soil seed banks Seed responses to light The role of temperature in the regulation of seed dormancy and germination Effect of chemical environment on seed germination Role of fire in regeneration from seed Ecology of seedling regeneration The contribution of seedling regeneration to the structure and dynamics of plant communities ecosystems and larger units of landscape Gaps and seedling colonization 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 *Seeds* Harshad Khuspe, 2015-03 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 The completion of plant's life cycle and regeneration of plant population depends on the process of reproduction Yet there is great difference between higher plants species reproduction Research into plant reproduction from seed continues to provide a wide range of opportunities for investigating fundamental aspects of ecology Seeds Robert S. Gallagher, 2014-05-28 This book 11 chapters presents an overview of seed ecophysiology and its role in shaping plant communities Updated information on frugivory seed dispersal seed predation light mediated germination responses chemical regulation of germination and seed dormancy is provided New chapter contributions include an overview of seed development anatomy and morphology the chemical ecology of seed persistence implications of climate change on the regeneration by seeds and the functional role of seed banks in agricultural and natural ecosystems This book serves as a highly comprehensive review resource for new students of seed ecology and plant community regeneration as well as an update for the more seasoned and experienced scientist **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 **Seeds** M. ed FENNER,1992

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 **Seed Ecology** M.W. Fenner,2012-12-06 This book is about the regeneration of plants from seed under field conditions It attempts to give a reasonably balanced overview of the many aspects of this broad topic The first chapter introduces some general ideas about reproduction in plants Subsequent chapters deal with the early stages in the life of a plant from ovule to established seedling in a more or less chronological order The final chapter shows how the data on regeneration requirements of different species can be used to explain a number of important characteristics of whole plant communities The study of the ecological aspects of reproduction by seed touches on a range of issues of current interest in biology A discussion of seed size and number involves a consideration of the concepts of resource allocation life cycles and strategies The interactions between plants and animals seen in pollination seed dispersal and predation provide excellent material for the study of coevolution Investigations on regeneration from seed have greatly our understanding of the causes and maintenance of species added to diversity The reader will find that virtually all the experiments and field observations described in this book are conceptually very simple Many of them merely required numerous careful measurements **Seed Development and Germination** Jaime

Kigel,2017-11-01 This text is intended for plant physiologists molecular biologists biochemists biotechnologists geneticists horticulturalists agronomists 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 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 c 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 **An Integrative Approach to Successional Dynamics** Scott J.

Meiners, Steward T. A. Pickett, Mary L. Cadenasso, 2015-03-26 Much of what is considered conventional wisdom about succession is not as clear cut as it is generally believed Yet the importance of succession in ecology is undisputed since it offers a real insight into the dynamics and structure of all plant communities Part monograph and part conceptual treatise An Integrative Approach to Successional Dynamics presents a unifying conceptual framework for dynamic plant communities and uses a unique long term data set to explore the utility of that framework The fourteen chapters each written in a nontechnical style and accompanied by numerous illustrations and examples cover diverse aspects of succession including community population and disturbance dynamics diversity community assembly heterogeneity functional ecology and biological invasion This unique text will be a great source of reference for researchers and graduate students in ecology and plant biology as well as others with an interest in the subject *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 Dormancy and Low Growth

States in Microbial Disease Anthony R. M. Coates, 2003-06-02 All cellular life forms can exist in replicating and non replicating states Organisms replicate only when the conditions are beneficial and when not replicating they concentrate on survival of these environmental stresses Many bacteria harmful to humans survive the period of infection in a low growth state This 2003 book addresses the basic science of microbial dormancy and low growth states putting this in the context of human medicine Such fundamental topics as bacterial growth and non growth culturability and viability are covered as well as survival of the host s immune response and inter bacterial signalling Following this introduction more medically focused topics are discussed namely antibiotic resistance arising during stationary phase biofilms the bacteria which cause gastric ulcers and tuberculosis as the classic persistent bacterial infection This book will interest graduate students and researchers in medical microbiology immunology and infectious disease medicine who are interested in bacterial dormancy in relation to disease

Seeds J. Derek Bewley, Michael Black, 2013-06-29 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

Parasitic Orobanchaceae Daniel M. Joel, Jonathan Gressel, Lytton J. Musselman, 2013-07-01 This book was written in response to significant recent advances in understanding the mechanisms of parasitism in the Orobanchaceae and breakthroughs in the control of the parasitic weeds Striga and Orobanche It consists of 26 contributions by internationally recognized leading scientists The main book chapters are grouped into two parts Part I The Orobanchaceae and Their Parasitic Mechanisms Part II The Weedy Orobanchaceae and Their Control The first part provides cutting edge information on all key aspects of plant parasitism such as the structure development and function of the haustorium nutrient transfer and the physiology of the parasite host association host reaction to parasitic plants seed production and germination the strigolactones and host parasite signaling mechanisms the parasite genome phylogenetics evolution and epigenetics and ecology Topics of the second part include the problem posed by the weedy parasites population diversity and dynamics molecular diagnosis of seed banks and detailed discussion of the various management strategies including agronomic chemical and biotechnological approaches as well as host breeding for resistance allelopathy and biological control This book is intended for plant scientists university lecturers and students agronomists and weed specialists breeders and farmers extension personnel and experts in tropical and subtropical agriculture

Animal-Mediated Dispersal in Understudied Systems Casper H. A. Van Leeuwen, José L. Tella, Andy J. Green, 2020-02-13 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on

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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

Encyclopedia of Plant and Crop Science (Print) Robert M. Goodman, 2004-02-27 Encyclopedia of Plant and Crop Science is the first ever single source reference work to inclusively cover classic and modern studies in plant biology in conjunction with research applications and innovations in crop science and agriculture From the fundamentals of plant growth and reproduction to developments in agronomy and agricultural science the encyclopedia s authoritative content nurtures communication between these academically distinct yet intrinsically related fields offering a spread of clear descriptive and concise entries to optimally serve scientists agriculturalists policy makers students and the general public

Animal Seed Dispersal: An Ecosystem Service in Crisis Anna Traveset, Haldre S. Rogers, Isabel Donoso, Evan Fricke, 2022-08-11

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