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Seed Storage Compounds

Biosynthesis, Interactions, and Manipulation

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Seed Storage Compounds Biosynthesis Interactions And Manipulations

T L Barsby, A M Donald, P J Frazier



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Seed Storage Compounds Peter R. Shewry, A. Keith Stobart, 2023 Presents an up to date account of seed storage compounds and their structure biosynthesis and mode of deposition within the seed The book also discusses interactions and the mechanisms by which the plant may regulate the partitioning of carbon into lipid or starch Seed Technology and Its Biological Basis Michael Black, J. Derek Bewley, 2000 Edited by a renowned seed biologist with a team assembled from the most respected laboratories worldwide Seed Technology and Its Biological Basis illustrates the commercial value of seeds as a major resource The editors provide a sweeping overview of the current state of the art in seed technology and its biological basis The book is invaluable to researchers and professionals in both the industrial and academic sectors **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

Seed Storage Compounds Peter R. Shewry, Keith Stobart, 1993 Seeds have long been harvested as a source of protein oil starch and animal feed This edited volume brings together authoritative writings on the three groups of seed storage compounds proteins lipids and starch and offers the most up to date account of their structure biosynthesis and modes of deposition available The book also sheds light on compound interactions and on the mechanisms by which plants regulate the partitioning of carbon into lipid or starch Finally it discusses opportunities for the genetic engineering of plants either to manipulate the structures of the major seed storage compounds or to produce novel products The book which provides a synopsis of the field s exciting new developments not previously brought together in one easily accessible volume will be of interest to students and researchers of plant physiology and biochemistry Starch T L Barsby, A M Donald, P J

Frazier, 2007-10-31 Starch in its many forms provides an essential food energy source for the world s human population It is therefore vital for manufacturers and ultimately consumers to have increased understanding of the granule synthesis and its behaviour in modern food processing Starch Advances in Structure and Function documents the latest research and opinion on starch structure and its function as a food material including structure characterisation processing and ingredient functionality and control of starch biosynthesis The multi disciplinary nature of the contents will provide a valuable reference for biologists chemists food technologists geneticists nutritionists and physicists Cellular and Molecular Biology of Plant Seed Development Brian A. Larkins, Indra K. Vasil, 2013-03-09 The beginnings of human civilization can be traced back to the time nearly 12 000 years ago when the early humans gradually changed from a life of hunting and gathering food to producing food This beginning of primitive agriculture ensured a dependable supply of food and fostered the living together of

people in groups and the development of society During this time plant seeds were recognized as a valuable source of food and nutrition and began to be used for growing plants for food Ever since plant seeds have played an important role in the development of the human civilization Even today seeds of a few crop species such as the cereals and legumes are the primary source of most human food and the predominant commodity in international agriculture Owing to their great importance as food for humans and in international trade seeds have been a favorite object of study by developmental biologists and physiologists nutritionists and chemists A wealth of useful information is available on the biology of seeds

Biochemistry of Foods N.A. Michael Eskin, Fereidoon Shahidi, 2012-10-08 This bestselling reference bridges the gap between the introductory and highly specialized books dealing with aspects of food biochemistry for undergraduate and graduate students researchers and professionals in the fields of food science horticulture animal science dairy science and cereal chemistry Now fully revised and updated with contributing authors from around the world the third edition of Biochemistry of Foods once again presents the most current science available The first section addresses the biochemical changes involved in the development of raw foods such as cereals legumes fruits and vegetables milk and eggs Section II reviews the processing of foods such as brewing cheese and yogurt oilseed processing as well as the role of non enzymatic browning Section III on spoilage includes a comprehensive review of enzymatic browning lipid oxidation and milk off flavors The final section covers the new and rapidly expanding area of rDNA technologies This book provides transitional coverage that moves the reader from concept to application Features new chapters on rDNA technologies legumes eggs oilseed processing and fat modification and lipid oxidation Offers expanded and updated material throughout including valuable illustrations Edited and authored by award winning scientists

Advances in Food Biochemistry Fatih Yildiz, 2009-12-16 Understanding the biochemistry of food is basic to all other research and development in the fields of food science technology and nutrition and the past decade has seen accelerated progress in these areas Advances in Food Biochemistry provides a unified exploration of foods from a biochemical perspective Featuring illustrations to elucidate m

Encyclopedia of Food Grains Colin W Wrigley, Harold Corke, Koushik Seetharaman, Jonathan Faubion, 2015-12-17 The Encyclopedia of Food Grains Four Volume Set is an in depth and authoritative reference covering all areas of grain science Coverage includes everything from the genetics of grains to the commercial economic and social aspects of this important food source Also covered are the biology and chemistry of grains the applied aspects of grain production and the processing of grains into various food and beverage products With the paramount role of cereals as a global food source this Encyclopedia is sure to become the standard reference work in the field of science Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www.info.sciencedirect.com Written from an international perspective the Encyclopedia concentrates on the

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