

# Opda

N. Murata,M. Yamada,I. Nishida,H. Okuyama,Jiro Sekiya,W. Hajime

## **Oxylipins: The Front Line of Plant Interactions** Koichi Sugimoto,Silke Allmann,Michael V.

Kolomiets,2022-03-03

**Lipid signaling in plants** Xuemin Wang,Kent D. Chapman,2013-07-30 Cell membranes are the initial and focal sites of stimulus perception and signal transduction. Membrane lipids are rich sources for the production of signaling messengers that mediate plant growth, development, and response to nutrient status and stresses. In recent years, substantial progress has been made toward understanding lipid signaling in plants, but many fundamental questions remain: What lipids are signaling messengers or mediators in plants? How are the signaling lipids produced and metabolized? In what plant cellular and physiological processes are various lipid mediators involved? How do they carry out their signaling functions? How do lipid signaling networks contribute to modulating plant growth, development, and responses to hormones and stresses? In this Research Topic issue, we invite the broad plant community to address the above questions. Cell membranes are the initial and focal sites of stimulus perception and signal transduction. Membrane lipids are rich sources for the production of signaling messengers that mediate plant growth, development, and response to nutrient status and stresses. In recent years, substantial progress has been made toward understanding lipid signaling in plants, but many fundamental questions remain: What lipids are signaling messengers or mediators in plants? How are the signaling lipids produced and metabolized? In what plant cellular and physiological processes are various lipid mediators involved? How do they carry out their signaling functions? How do lipid signaling networks contribute to modulating plant growth,

development, and responses to hormones and stresses? In this Research Topic issue, we invite the broad plant community to address the above questions.

Induced Plant Resistance to Herbivory Andreas Schaller, 2008-03-27 This timely book provides an overview of the anatomical, chemical, and developmental features contributing to plant defense, with an emphasis on plant responses that are induced by wounding or herbivore attack. The book first introduces general concepts of direct and indirect defenses, followed by a focused review of the different resistance traits. Finally, signal perception and transduction mechanism for the activation of plant defense responses are discussed.

*The Chloroplast* Constantin A. Rebeiz, Christoph Benning, Hans J. Bohnert, Henry Daniell, Ph.D., J. Kenneth Hooper, Hartmut K. Lichtenthaler, Archie R. Portis, Baishnab C. Tripathy, 2010-07-15 As the industrial revolution that has been based on by higher photosynthetic efficiencies and more utilization of fossil fuels nears its end [R. A. Ker biomass production per unit area. (2007) Even oil optimists expect energy demand to According to Times Magazine (April 30, 2007) outstrip supply. Science 317: 437], the next industrial issue), one fifth of the US corn crop is presently trial revolution will most likely need development converted into ethanol, which is considered to burn of alternate sources of clean energy. In addition cleaner than gasoline and to produce less greenhouse gases. In addition to the development of hydroelectric power, these house gases. In order to meet a target of 35 billion efforts will probably include the conversion of gallons of ethanol produced by the year 2017, the wind, sea wave motion and solar energy [Solar Day entire US corn crop would need to be turned into in the Sun (2007) Business week, October 15, pp fuel. But crops such as corn

and sugarcane cannot 69–76] into electrical energy. The most promising yield enough to produce all the needed fuel. F- of those will probably be based on the full usage thermore, even if all available starch is converted of solar energy. The latter is likely to be plenti- into fuel, it would only produce about 10% of ful for the next 2–3 billion years. Most probably, our gasoline needs [R. F.

*Handbook of Proteolytic Enzymes* Alan J. Barrett, Neil D. Rawlings, J. Fred Woessner, 2012-10-30 The third edition of the Handbook of Proteolytic Enzymes is a comprehensive reference work for the enzymes that cleave proteins and peptides, written by acknowledged experts in the field and containing over 850 chapters. Each chapter is organized into sections describing the name and history, activity and specificity, structural chemistry, preparation, biological aspects, and distinguishing features for a specific peptidase. There are also introductory chapters on peptidase classification and mechanisms and a comprehensive index. For the first time, the Handbook is also available online via Elsevier's ScienceDirect platform as well as a three-volume book. The online version has enhanced options, including online multimedia, cross-referencing capabilities, integrated online delivery and closer integration with the online MEROPS database of peptidases and their inhibitors. This reference work is a must-have for biochemists, biotechnologists, molecular biologists and students in these disciplines, and will be of great interest to pharmaceutical and biotechnology companies. Contains over 830 chapters Covers new research in therapeutics and drug trials Supplies content written by experts in the field

**Quantum Bio-informatics** Luigi Accardi, Wolfgang Freudenberg, Masanori Ohya, 2008 The purpose of this volume is examine bio-informatics and quantum information, which are growing rapidly at present,

and to attempt to connect the two, with a view to enumerating and solving the many fundamental problems they entail. To this end, we look for interdisciplinary bridges in mathematics, physics, and information and life sciences. In particular, research into a new paradigm for information science and life science on the basis of quantum theory is emphasized.

**Jasmonates and Salicylates Signaling in Plants** Tariq Aftab, Mohammad Yusuf, 2021-07-15 Demand for agricultural crops and nutritional requirement continues to escalate in response to increasing population. Also, climate change exerts adverse effects on agriculture crop productivity. Plant researchers have, therefore, focused to identify the scientific approaches that minimize the negative impacts of climate change on agricultural crops. Thus, it is the need of the hour to expedite the process for improving stress tolerance mechanisms in agricultural crops against various environmental factors, in order to fulfil the world's food demand. Among the various applied approaches, the application of phytohormones has gained significant attention in inducing stress tolerance mechanisms. Jasmonates are phytohormones with ubiquitous distribution among plants and generally considered to modulate many physiological events in higher plants such as defence responses, flowering and senescence. Also, jasmonates mediate plant responses to many biotic and abiotic stresses by triggering a transcriptional reprogramming that allows cells to cope with pathogens and stresses. Likewise, salicylates are important signal molecules for modulating plant responses to environmental stresses. Salicylic acid influences a range of diverse processes in plants, including seed germination, stomatal closure, ion uptake and transport, membrane permeability and photosynthetic and growth rate. Understanding the significant roles of these phytohormones in plant

biology and from agriculture point of view, the current subject has recently attracted the attention of scientists from across the globe. Therefore, we bring forth a comprehensive book “Jasmonates and Salicylates Signalling in Plants” highlighting the various prospects involved in the current scenario. The book comprises chapters from diverse areas dealing with biotechnology, molecular biology, proteomics, genomics, metabolomics, etc. We are hopeful that this comprehensive book furnishes the requisite of all those who are working or have interest in this topic.

Handbook of Proteolytic Enzymes, Volume 1 Alan J. Barrett, J. Fred Woessner, Neil D.

Rawlings, 2012-12-02 Handbook of Proteolytic Enzymes, Second Edition, Volume 1: Aspartic and Metallo Peptidases is a compilation of numerous progressive research studies on proteolytic enzymes. This edition is organized into two main sections encompassing 328 chapters. This handbook is organized around a system for the classification of peptidases, which is a hierarchical one built on the concepts of catalytic type, clan, family and peptidase. The concept of catalytic type of a peptidase depends upon the chemical nature of the groups responsible for catalysis. The recognized catalytic types are aspartic, cysteine, metallo, serine, threonine, and the unclassified enzymes, while clans and families are groups of homologous peptidases. Homology at the level of a family of peptidases is shown by statistically significant relationship in amino acid sequence to a representative member called the type example, or to another member of the family that has already been shown to be related to the type example. Each chapter discusses the history, activity, specificity, structural chemistry, preparation, and biological aspects of the enzyme. This book will prove useful to enzyme chemists and researchers.

**Advances in Plant Dormancy** James V. Anderson, 2015-04-30 Plant dormancy involves synchronization of environmental cues with developmental processes to ensure plant survival; however, negative impacts of plant dormancy include pre-harvest sprouting, non-uniform germination of crop and weed seeds, and fruit loss due to inappropriate bud break. Thus, our continued quest to disseminate information is important in moving our understanding of plant dormancy forward and to develop new ideas for improving food, feed, and fiber production and efficient weed control, particularly under global climate change. Proceeding from the 5th International Plant Dormancy Symposium will provide an overview related to our current understanding of how environmental factors impact cellular, molecular, and physiological processes involved in bud and seed dormancy, and perspectives and/or reviews on achievements, which should stimulate new ideas and lines of investigation that increase our understanding of plant dormancy and highlight directions for future research.

**The Ottoman Crisis in Western Anatolia** Emre Erol, 2016-01-22 Ottoman Turkey's coastal provinces in the early nineteenth century were economic powerhouses, teeming with innovation, wealth and energy a legacy of the Ottoman's outward-looking and trade-orientated diplomacy. By the middle of the century, the wide-ranging and radical process of modernisation known collectively as the Tanzimat was underway, in part a symptom of a slow decline in Ottoman financial strength. By the 1920s, the coastal cities were ghost towns. The Ottoman Crisis in Western Anatolia seeks to unpick how and why this happened. A detailed, rich and authoritative regional study, this book offers a unique and original insight into the effects of forced migration, displacement, economic re-organisation and the competing political ideologies focused

on modernisation all of which are central to the study of the late Ottoman Empire.

**Post-translational modification and regulation of oxophytodienoate reductase 3 (OPR3) (Band 14)** Sally Victoria Weiss, 2022-10-06 Oxophytodienoic acid reductases (OPRs) are flavoenzymes closely related to Old Yellow Enzyme (OYE) from *Saccharomyces*. The physiological role of plant OPRs could only be clarified for OPR3: OPR3 from tomato and *Arabidopsis* reduce the double bond of the  $\alpha,\beta$ -unsaturated carbonyl group of (9S,13S)-oxophytodienoic acid (OPDA), the precursor of the phytohormone jasmonic acid (JA). OPR3 is therefore an important step for JA biosynthesis and the following JA-triggered defensive and developmental adaptations of the plant. Since the production of phytohormones, including JA, is regulated in an extremely time- and tissue specific manner, the regulatory step of JA-biosynthesis was sought. The conversion of OPDA by OPR3 was proposed as the rate-limiting step in biosynthesis as OPR3 turned out to form a self-inhibiting dimer when crystallized. In the OPR3 crystal, the L6-loop from each protomer reaches into the active site cavity of the other protomer. The dimerization-dependent block of the active site provides a hypothetical mechanism for the regulation of OPR3 activity. Interestingly, two sulfate ions were enclosed in the interacting site of the protomers, suggesting that the dimer might be stabilized in vivo by reversible sulfation or phosphorylation of the tyrosine 364 (SlOPR3) or 365 (AtOPR3), respectively. The role of this hypothesized sulfation/phosphorylation was subject of this study. Neither sulfation nor phosphorylation of Y365 could be detected by mass spectrometry. Hence, studies were continued with an in vitro approach where OPR3 was expressed with sulfotyrosine incorporated co-translationally at position 365 (Y365SY). Biochemical characterization led to contradictory results: On the one hand, interaction



strength of Y365SY was unaltered in comparison to wild-type OPR3, while on the other hand, activity of Y365SY was reduced. Closer examination indicated that substrate binding or product release was reduced in Y365SY. These changes could be traced back to the additional charge of the SO42<sup>−</sup> ion, which leads to a narrowing of the entrance to the active site cavity. With this finding, the proposed regulating mechanism by sulfation/phosphorylation is still valid, but independent from dimerization. In order to link this potential regulatory mechanism with a post-translational modification in vivo, an untargeted screen was performed, in which OPR3 was expressed as a fusion protein with a promiscuous biotin ligase (BioID2). With this method, potentially interacting proteins were biotinylated in vivo and subsequently isolated and analyzed by MS/MS. Many candidate proteins were identified for OPR3, including kinases and phosphatases. Additionally, OPR1, OPR2 and OPR4 from Arabidopsis were also expressed as BioID2 fusion proteins in order to clarify their physiological role. The most promising results were obtained for OPR4, which was found to be associated with stress granule and P-body proteins.

The Political Economy of Ottoman Public Debt Murat Birdal, 2010-07-04 In the midst of political decline and burgeoning financial problems in the late nineteenth century, the Ottoman Empire became embroiled in a borrowing frenzy, which eventually resulted in the financial collapse of the empire. Under political pressure and with the growing need for external funds, the Ottoman court compromised its fiscal sovereignty by ceding the most liquid revenue sources to a financial administration controlled by European creditors. In this book, Murat Birdal sheds light on the handling of the external debt crisis, one of the most controversial periods of Ottoman economic history. Based on extensive archival research in foreign archives,

he explores the pivotal role of the Ottoman Public Debt Administration (OPDA) in the peripheralization of the Ottoman economy. This book will be invaluable to scholars of Ottoman, Middle East and economic history.

**Lipids in Photosynthesis** Hajime Wada,Norio Murata,2009-11-07 Lipids in Photosynthesis: Essential and Regulatory Functions, provides an essential summary of an exciting decade of research on relationships between lipids and photosynthesis. The book brings together extensively cross-referenced and peer-reviewed chapters by prominent researchers. The topics covered include the structure, molecular organization and biosynthesis of fatty acids, glycerolipids and nonglycerolipids in plants, algae, lichens, mosses, and cyanobacteria, as well as in chloroplasts and mitochondria. Several chapters deal with the manipulation of the extent of unsaturation of fatty acids and the effects of such manipulation on photosynthesis and responses to various forms of stress. The final chapters focus on lipid trafficking, signaling and advanced analytical techniques. Ten years ago, Siegenthaler and Murata edited Lipids in Photosynthesis: Structure, Function and Genetics, which became a classic in the field. Lipids in Photosynthesis: Essential and Regulatory Functions, belongs, with its predecessor, in every plant and microbiological researcher's bookcase.

*Advanced Research on Plant Lipids* N. Murata,M. Yamada,I. Nishida,H. Okuyama,Jiro Sekiya,W. Hajime,2013-03-14 The 15th International Symposium on Plant Lipids was held in Okazaki, Japan, in May 12th to 17th, 2002, at the Okazaki Conference Center. The Symposium was organized by the Japanese Organizing Committee with the cooperation of the Japanese Association of Plant Lipid Researchers. The

International Symposium was successful with 225 participants from 29 countries. We acknowledge a large number of participants from Asian countries, in particular, from China, Korea, Malaysia, Taiwan, Thailand and the Philippines, presumably because this was the first time that the International Symposium on Plant Lipids was held in Asia. We also acknowledge a number of scientists from Canada, France, Germany, UK and USA, where plant lipid research is traditionally very active. The Symposium provided an opportunity for presentation and discussion of 68 lectures and 93 posters in 11 scientific sessions, which together covered all aspects of plant lipid researches, such as the structure, analysis, biosynthesis, regulation, physiological function, environmental aspects, and the biotechnology of plant lipids. In memory of the founder of this series of symposia, the Terry Galliard Lecture was delivered by Professor Ernst Heinz from Universität Hamburg, Germany. In addition, special lectures were given by two outstanding scientists from animal lipid fields, Professor James Ntambi from University of Wisconsin, USA, and Dr. Masahiro Nishijima from the National Institute for Infectious Diseases, Japan. To our great honor and pleasure, the session of Lipid Biosynthesis was chaired by Dr.

Plant Hormone Signaling Systems in Plant Innate Immunity P. Vidhyasekaran, 2014-10-01 Plants are endowed with innate immune system, which acts as a surveillance system against possible attack by pathogens. Plant innate immune systems have high potential to fight against viral, bacterial, oomycete and fungal pathogens and protect the crop plants against wide range of diseases. However, the innate immune system is a sleeping system in unstressed healthy plants. Fast and strong activation of the plant immune responses aids the host plants to win the war against the pathogens. Plant hormone signaling systems

including salicylate (SA), jasmonate (JA), ethylene (ET), abscisic acid (ABA), auxins, cytokinins, gibberellins and brassinosteroids signaling systems play a key role in activation of the sleeping immune systems. Suppression or induction of specific hormone signaling systems may result in disease development or disease resistance. Specific signaling pathway has to be activated to confer resistance against specific pathogen in a particular host. Two forms of induced resistance, systemic acquired resistance (SAR) and induced systemic resistance (ISR), have been recognized based on the induction of specific hormone signaling systems. Specific hormone signaling system determines the outcome of plant-pathogen interactions, culminating in disease development or disease resistance. Susceptibility or resistance against a particular pathogen is determined by the action of the signaling network. The disease outcome is often determined by complex network of interactions among multiple hormone signaling pathways. Manipulation of the complex hormone signaling systems and fine tuning the hormone signaling events would help in management of various crop diseases. The purpose of the book is to critically examine the potential methods to manipulate the multiple plant hormone signaling systems to aid the host plants to win the battle against pathogens.

*Lipid Metabolism* Rodrigo Valenzuela Baez, 2013-01-23 Lipids (fats and oils) are a wide range of organic molecules that serve several functions in organisms. Lipids are essential components of our diet, highlighting their important contribution in energy, representing 9 kcal/g (or 37.7 kJ/g), and by some components relevant to the metabolism, such as essential fatty acids, fat soluble vitamins and sterols (cholesterol and phytosterols). Besides this, lipids have key roles in human growth and development, along

with promoting, preventing and/or participating in the origin or eventually in the treatment of various diseases. This book presents a systematic and comprehensive review about the structure and metabolism of lipids, particularly highlighting the importance of these molecules in the body and considering the interest of some lipids in health and disease.

**Jasmonates and Brassinosteroids in Plants** Ramakrishna Akula, Geetika Sirhindi, 2022-09-27 This book provides a comprehensive update on recent developments of Jasmonates (JAs) and Brassinosteroids (BRs) in plant signalling and biotechnological applications. Over the last few decades, an enormous amount of research data has been generated on these two signalling molecules. This valuable compilation will enhance the basic understanding of JAs and BRs mechanism of actions ensuing tolerance mechanism of crops under climate changes for sustainable agriculture and human welfare. This book covers topics regarding the occurrence of JAs and BRs in plants, biosynthesis, role in plant growth and development, role of these PGRs during various abiotic stress tolerance in plants, crosstalk of Reactive Oxygen Species (ROS) and plant stress mitigation, regulation of JAs and BRs signaling pathways by microRNA, along with physiological and anatomical roles of JAs and BRs as wound healing, regeneration and cell fate decisions. The cross talk of JAs and BRs with neurotransmitters in plant growth and development. Bio-fortification of crop plants with BRs in managing in human health issues chapter enlightened new role of BRs in human wellbeing. This book will be beneficial to scientists, researchers, agriculturists, horticulturists, industries related to the crop and food production **KEY FEATURES** Reviews the global scientific literature and experimental data of the authors on the occurrence of JAs and BRs in various plants Update information on recent developments of

JAs and BRs signalling and biotechnological applications in plants Highlights the physiological, metabolic and molecular mechanism of JAs and BRs under variable climates Addresses the abiotic and biotic tolerance management by JAs and BRs Describes the role of JAs and BRs in sustainable agriculture and human welfare in eco-friendly manner

Phyto-Oxylipins Sheikh Mansoor Shafi, Chukwuebuka Egbuna, Charles Oluwaseun Adetunji, 2023-03-21 Oxylipins are an important class of signaling molecules in plants, which play an important role in plant defence and innate immunity. Oxylipins have critical roles in plant growth and plant responses to physical damage caused by herbivores, insects, and pathogenic microbes. Over the last decade, our understanding of oxylipin production, metabolism, and function, particularly jasmonates, has advanced considerably. Jasmonates have provided further mechanistic insights into enzyme function and signalling cascades. Other oxylipins, such as hydroxy fatty acids, have recently been shown to exhibit individual signaling features and crosstalk with other phytohormones. There is scant literature on plant oxylipins and their relevance to our understanding and therefore, understanding oxylipin production, metabolism, and function is pivotal. As a result, researchers, students, professors, and other book readers will have a thorough understanding of plant oxylipin biosynthesis, structure, and function, assisting in the improvement of plant science. Plant oxylipins: metabolism, physiological roles, and profiling techniques address the mechanism, metabolism, and roles of oxylipins in plant resistance to various biotic and abiotic stimuli in detail. This book covers fundamental ideas in oxylipin production, metabolism, structural biochemistry, and signaling pathways. It also discusses cutting-edge methodologies for oxylipin metabolic profiling, with an emphasis on computing

applications. This book is an excellent resource for plant scientists, plant biochemists, biotechnologists, botanists, phytochemists, toxicologists, chemical ecologists, taxonomists, and other scholars in those subjects. The book is written by a global team of professionals. Features Presents concrete and extensive information about a basic and applied aspect of plant oxylipins as well as expanded coverage of signaling mechanisms. Highlights the fundamental concepts of the biosynthesis, metabolism, structural biochemistry, and signaling pathway of oxylipins. Details the state-of-the-art methods and techniques in metabolic profiling of oxylipins in plants. Presents insights on computational applications in the evaluation and study of oxylipins in plants.

**Enzymes: Advances in Research and Application: 2011 Edition**, 2012-01-09 Enzymes: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Enzymes and Coenzymes. The editors have built Enzymes: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Enzymes and Coenzymes in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Enzymes: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

**Plant Stress Biology** Heribert Hirt, 2009-12-02 This is the first book to present a comprehensive and

advanced discussion on the latest insights into plant stress biology. Starting with general aspects of biotic as well as abiotic stresses, this handbook and ready reference moves on to focus on topics of stress hormones, technical approaches such as proteomics, transcriptomics and genomics, and their integration into systemic modeling. This book is a valuable resource for researchers as well as professionals not just in plant sciences but also in cell and molecular biology as well as biotechnology.

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