

Metabolic Aspects of Lipid Nutrition in Insects

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Metabolic Aspects Of Lipid Nutrition In Insects

Elizabeth A. Bernays



Metabolic Aspects Of Lipid Nutrition In Insects:

Metabolic Aspects Of Lipid Nutrition In Insects T. E. Mittler, 2019-03-01 Our understanding of the physiological function of insect essential lipids has long been flawed by major uncertainties It was discovered long ago that dietary sterol is a necessary nutrient for all insects which radically sets them apart from the vertebrates in terms of qualitative nutrient requirements Because of the physiological importance of sterol as a molting hormone precursor in insects and the implications of this for the development of new insecticides a wealth of investigation into insect sterol metabolism followed covering both the ways in which insects convert diverse food plant sterols into the major tissue sterols and how these in turn are metabolized into the ecdysone molting hormones However for the classes or essential Lipid nutrients required by vertebrates research dealing with insects has been scant and more often than not rather indeterminate Many but by no means all insects studied appear to require essential fatty acids though virtually nothing has been found out about the metabolism or essential physiological function of these acids Excepting vitamin A needed for insect vision the various vertebrate fat soluble vitamins appear to have no significance for insect physiology and results of the occasional attempts to demonstrate functions for them in growth and development have in most cases been tantalizingly equivocal In recent years some notable advances were made in the study of essential fatty acids and fat soluble vitamins in insects and work on insect sterol nutrition and metabolism continues with ever increasing sophistication The contributors to this book summarize discuss and speculate on these issues Their work is based on papers presented at the 1980 World Congress of Entomology at Kyoto Japan

Metabolic Aspects of Lipid Nutrition in Insects Taylor & Francis Group, 2020-12-07 This book summarizes discusses and speculates on the essential lipid nutrients required by insects It examines various ways in which insects convert diverse food plant sterols into the major insect tissue sterols and how the insect sterols are metabolized into the ecdysone moulting hormones

Metabolic Aspects of Lipid Nutrition in Insects T. E. (Thomas E.) Mittler, 1983 *Biology of the Insect Midgut* M. Lehane, P. Billingsley, 2012-12-06 Entomological research benefits from a great diversity of technical approaches from the molecular to the descriptive and these are applied to an even greater diversity of insect species As a consequence common themes and trends in entomological research can often be overlooked as each researcher focuses on his or her own area of interest The purpose of this volume is to bring together diverse areas of research under one common theme The book is divisible into four conceptual areas the structural biology of the midgut digestion and transport the insect midgut as a target for control strategies and the midgut as an environment for other organisms Each chapter is written by scientists active in the reviewed research area and a truly international team of contributors has been chosen by the editors *Biology of the Insect Midgut* will be of immense use to advanced undergraduate and postgraduate students and researchers in entomology physiology and pest control

Molecular Aspects of Insect-Plant Associations S. Ahmed, L.B. Brattsten, 2013-11-11 Thanks to the meticulous and enthusiastic work of insect

collectors and taxonomists over the past hundred years and more we have today a large amount of information on the feeding habits and life styles of several hundred thousands of insect species. Insects that feed on plants during at least one of their life stages constitute about half of the three quarters of a million described species. Their numbers both in terms of species and individuals together with their small but macroscopic sizes makes the insect plant biological interface perhaps the most conspicuous diverse and largest assemblage of intimate interspecies interactions in existence. It is also perhaps the most important biological interface because of the plants role as primary producers upon which all other forms of earthly life depend thereby bringing herbivorous insects occasionally into direct competition with human food and fiber production. Early enthusiasm revealed many remarkable specializations and associations between insects and plants and occasionally assigned chemical mediators for them. However the modern practices of large scale crop protection by synthetic pesticides and their attendant problems particularly with resistance in pests and destruction of natural enemies have been in large measure responsible for drawing our attention to the mechanisms whereby plants control insect populations and insects adapt to the plants defenses. These practices have also brought home the importance of chemical mediators in practically all aspects of insect activities and in particular the importance of plant allelochemicals in maintaining and balancing insect plant associations.

Eicosanoids in Invertebrate Signal Transduction Systems David W. Stanley, 2014-07-14 This volume generates a new paradigm for researching and understanding the biological meaning of eicosanoids. Eicosanoid is a general term for oxygenated metabolites of certain polyunsaturated fatty acids. The compounds are extremely important in human biology in which they are well understood. Their importance to humans however has tended to overshadow their broader biological significance. David Stanley seeks to change that in this book providing a general sketch of the medical background on eicosanoids and then developing a detailed critical treatment of eicosanoid actions in invertebrates and some lower vertebrates. Stanley looks at the role of eicosanoids in for example invertebrate reproduction immunity and ion transport physiology. As he explains eicosanoids also mediate important ecological interactions particularly host parasite interactions. Drawing on these physiological and ecological actions the book develops a biological paradigm under which we understand that eicosanoids probably exert important actions in most if not all animals. Because eicosanoids mediate crucial events in the lives of animals they are endowed with unusual explanatory power. Research designed to increase our understanding of eicosanoids has thus yielded and will continue to yield important new information about animal biology. In addition to representing a major advance in our understanding of eicosanoids in animals this book serves as an unusually comprehensive and accessible introduction to eicosanoid research in general. Originally published in 1999 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich

scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

Insect Diets Allen Carson Cohen, 2015-06-15 Dr Allen Carson Cohen's new edition of *Insect Diets: Science and Technology* continues to provide a current integrated review of the field of insect diets. It reaffirms and expands upon the belief that the science of diet development and the technology of diet application in rearing programs require formal foundations and guidelines. Cohen argues that **Advances in Insect Physiology**, 1993-12-15 *Insect Physiology* is currently undergoing a revolution with the increased application of molecular biological techniques to investigate the molecular mechanisms underlying the physiological responses to insect cells. *Advances in Insect Physiology* has instituted a commitment to the publication of high quality reviews on molecular biology and molecular genetics in areas where they provide an increased understanding of physiological processes in insects. Volume 24 is the first to include such specifically sought articles.

Insect-Plant Interactions Elizabeth A. Bernays, 2019-10-01 First Published in 1989, this book explores the relationship between plants and insects and the ways in which they interact with each other. Carefully compiled and filled with a vast repertoire of notes, diagrams, and references, this book serves as a useful reference for students of oncology and other practitioners in their respective fields.

Arthropod Cell Culture Systems Karl Maramorosch, 2018-01-18 Invertebrate cell culture is increasingly being used in various areas of biological research. Research in cellular biology and pathology that previously depended primarily on in vitro investigations of vertebrate animal cell systems is now being conducted using invertebrate cells. Specialists and pioneers from the United States, Japan, Switzerland, Slovakia, and China have presented original contributions to create a well-balanced cross-section of current developments. Topics discussed include the preparation of cell culture media, cultivation of mosquito, lepidopteran, grasshopper, and tick cells, the application of such cells to mammalian and plant virus research, and diverse applications in medicine, biology, and agriculture. A special chapter devoted to the work of Japanese cell culture pioneers is also featured. All chapters are supported by tables, photographs, and up-to-date bibliographies.

Insect Behavior Janice R. Matthews, 2019-04-08 Interest in insect behavior is growing rapidly, as reflected both in courses devoted fully to the topic and in its inclusion in general biology, ecology, invertebrate zoology, and animal behavior, as well as general entomology curricula. Instructors and students find that insects are in many ways uniquely suitable animals for behavioral study. *The Biology of Social Insects* Michael D. Breed, Charles D. Michener, Howard E. Evans, 2019-06-25 In this book, internationally known experts provide a comprehensive view of current knowledge of social insect biology, including much previously unpublished information. Particular emphasis is given to the relationships between social insects and humans; sections are devoted to economically important social insects, pollination, foraging, and the role of insects in ecosystems and agroecosystems. The authors also discuss communication behavior and caste within insect colonies. A special section focuses on the neurobiology of social insects. A series of papers considers the presocial insects which live in family groups but without caste differences. Also well represented are the fields

of sociobiology and the origins and evolution of social behavior The book will be valuable to agricultural scientists as well as to entomologists sociobiologists ecologists ethologists and natural historians Endocrinologists and neurobiologists will also find important new material **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),

Safer Insecticides Development and Use E. Hodgson, 2020-08-19 Reference to the design of new insecticides nontoxic to the environment and the public emphasizing optimal food production with greater safety Some 30 international experts examine topics including new types of active molecules among natural products and animal toxins insect metabolic and organ sy **Ecological Entomology** Carl B. Huffaker, Andrew Paul Gutierrez, 1998-12-07 Featuring completely updated chapters

additional authors and an increased emphasis on alternatives to traditional pesticides the second edition of Ecological Entomology is the field s leading reference on the role of insects in ecosystems The authors cover insect growth and development what they eat how they reproduce and how they move in various environments The book also examines how insects interact with the plant community and how to control insect populations naturally **Bemisia: Bionomics and Management of a Global Pest** Philip A. Stansly, Steven E. Naranjo, 2010-06-16 Bemisia tabaci Gennadius has distinguished itself from the more than 1 000 whitefly species in the world by its adaptability persistence and potential to damage a wide range of agricultural and horticultural crops in all six of the world s inhabited continents B tabaci inflicts plant damage through direct feeding inducement of plant disorders vectoring of plant viruses and excretion of honeydew This book collates multiple aspects of the pest ranging from basic to applied science and molecular to landscape levels of investigation Experts in multiple disciplines provide broad but detailed summaries and discussion of taxonomy genetics anatomy morphology physiology behavior ecology symbiotic relationships virus vector associations and various tactics for integrated management of this pest insect The book is focused primarily on progress during the last 10 15 years and is directed at workers in the field as well as the informed professional who may not necessarily specialize in whitefly research The book is unique in providing broad coverage in relatively few chapters by recognized experts that highlight the state of the art in our understanding of this fascinating but troublesome cosmopolitan pest **Insect Aging** Klaus-Günter Collatz, Rajindar S. Sohal, 2012-12-06

Leben ist die schönste Erfindung der Natur und der Tod ist ihr Kunstgriff viel Leben zu haben J W v Goethe Life is the most beautiful invention of nature and death is her device to exhibit most life The eminent British biologist Sir Vincent B Wigglesworth noted in 1939 that insects are an ideal medium in which to study all problems of physiology Many fundamental discoveries in biology particularly genetics and development have been made on the basis of studies conducted in insects Because of their ex treme adaptability and diversity an appropriate insect model is available for the study of virtually any biological problems The applicability to other groups including mammals of basic studies conducted on insects has helped in the gradual acceptance of the fundamental unity of biochemical principles as a dogma among biologists as well as among enlightened medical scientists With the recent upsurge of interest in the study of the aging process in sects have been

increasingly employed not only for the investigation of basic mechanisms of aging but also to gain insight into the evolution of aging and senescence. If only one aging mechanism exists it is foreseeable that some insects especially *Drosophila* will help to unravel its molecular basis. Because of their diversity existing studies in the gerontology of insects are widely scattered in various specialized journals. This wealth of existing information has not as yet been brought together in a synthesized and comprehensive form.

Regulation: Digestion, Nutrition, Excretion G. A. Kerkut, 2013-10-22 In this volume seven of the chapters deal with feeding and diet which is reasonable since insects consume an estimated 15-20% of all the world's planted crops. Many insects even have a specialized larval feeding stage that usually occupies a different ecological niche to the adult and so does not compete for the adult's food stock. Other chapters describe the means by which insects maintain their water balance, nitrogen balance and temperature balance under a range of conditions. These involve regulation by hormonal and behavioural systems that are also described here. The 14 chapters are all extensively illustrated and referenced and therefore provide excellent summaries of current knowledge. They will be of great value to entomologists, zoologists and biologists in general.

Ecdysone Mary Bownes, 2013-10-22 *Ecdysone: From Metabolism to Regulation of Gene Expression* presents papers from the Seventh Ecdysone Workshop held in Edinburgh, UK from March 31 to April 3, 1985. The book discusses the biosynthesis, distribution and metabolism of ecdysteroids, the ecdysteroid action and hormone receptors and the ecdysone-inducible genes. The text also describes hormones and oogenesis, the interactions with other hormones, studies on other hormones and practical applications of ecdysteroid studies.

Insect Lipids David Warren Stanley, Dennis R. Nelson, 1993-01-01

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