Proceedings in Life Sciences

Evolution of Insect Migration and Diapause

Edited by Hugh Dingle





Jay Alan Yoder, David L. Denlinger

<u>Directory of Published Proceedings</u>, 1982 **Index of Conference Proceedings Received** British Library. Lending Division, 1978 **American Scientist**, 1942 *National Union Catalog*, Includes entries for maps and atlases

Evolution of Insect Migration and Diapause Hugh Dingle, 1978-04-11 This volume is an outgrowth of a Symposium entitled Evolution of Escape in Space and Time held at the XV International Congress of Entomology in Washington D C USA in August 1976 The choice of topic was prompted by recent advances in evolutionary ecology and the apparent suitability of insect migration and dia pause as appropriate material for evolutionary studies In the event that choice seems amply justified as I hope a perusal of these papers will show These Sympos ium papers hardly cover the topic of the evolution of escape mechanisms exhaustively and I am sure everyone will have his favorite lacuna Some of the more obvious ones are indicated by Professor Southwood in his Concluding Remarks at the end of the book The purpose of the Symposium however was not complete coverage but rather to indicate the potential inherent in insect migration and diapause for the study of evolutionary problems In that I think we have succeeded reasonably well These papers are expanded and in some cases somewhat altered versions of the papers delivered in Washington This has allowed greater coverage of the topics in question I suggested a format of a general overview of a topic emphasizing the author's own research con tributions. In general the papers follow this outline although emphases vary Two of the authors Dr Rainey and Dr Lumme were unable to attend the Symposium Dr Rainey's paper was read by Mr Frank Walsh but Dr Cumulated Index Medicus, 1985 **Bibliography of Agriculture** Diapause and Life Cycle Strategies in Insects Valerie K. Brown, Ivo Hodek, 1983-03-31 ,1999 **Insect Hormones** H. Frederik Nijhout, 2021-02-09 Although insect endocrinology is one of the oldest and most active branches of insect physiology its classic general texts are long out of date while its abundant primary literature provides little biological context in which to make sense of the discipline as a whole In this book H Frederik Nijhout's goal is to provide a complete concise and up to date source for students and nonspecialists seeking an overview of the dynamic and wide ranging science that insect endocrinology has become since its beginnings nearly eighty years ago in the study of insect metamorphosis The author offers a comprehensive survey of the many roles that hormones play in the biology of insects Among the topics discussed are the control of molting metamorphosis reproduction caste determination in social insects diapause migration carbohydrate and lipid metabolism diuresis and behavior The account features a summary of the most current and accurate thinking on the complex roles of ecdysone and juvenile hormone in the control of metamorphosis a process still misunderstood and misrepresented in biological textbooks and many professional reviews Throughout the book s emphasis is on the biology of the organism and the ways in which physiological and developmental regulatory mechanisms are integrated into the insect s life cycle Diapause and Life Cycle Strategies in Insects Valerie K. Brown, Ivo Hodek, 1983 Current Trends of Insect Physiology and Population Dynamics: Modeling Insect Phenology, Demography, and Circadian Rhythms in Variable

Environments Petros T. Damos, Sibylle C. Stoeckli, Alexandros Rigas, 2018-06-12 The current eBook collection includes substantial scientific work in describing how insect species are responding to abiotic factors and recent climatic trends on the basis of insect physiology and population dynamics. The contributions can be broadly split into four chapters the first chapter focuses on the function of environmental and mostly temperature driven models to identify the seasonal emergence and population dynamics of insects including some important pests The second chapter provides additional examples on how such models can be used to simulate the effect of climate change on insect phenology and population dynamics The third chapter focuses on describing the effects of nutrition gene expression and phototaxis in relation to insect demography growth and development whilst the fourth chapter provides a short description on the functioning of circadian systems as well as on the evolutionary dynamics of circadian clocks Advances in Insect Physiology ,2025-11-01 Advances in Insect Physiology Volume 68 in the series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Sections in this new release include The immune and non immune defenses of aphids Ecology Evolution and Mechanisms of Taste in Social Insects Neuroendocrine regulation of Malpighian tubules Tick gut physiology and Drosophila insect immunity Provides the latest information on Insect Physiology research Offers outstanding and original reviews on a range of Insect Physiology research topics Serves as an indispensable reference for The Physiology of Diapause in Arthropods A. D. Lees, 2016-04-21 Originally published in researchers and students alike 1955 this book presents an account of diapause in arthropods **Evolution of Insect Migration and Dipause Hugh** Insect Photoperiodism Stanley D. Beck, 1980 Introduction to photoperiodism Behavioral photoperiodism Dingle, 1978 Photoperiodism and development events Physiological rhythms Growth and polymorphism Photoperiodism and diapause Survey of photoperiodically controlled diapause Circadian rhythms and biological time measurement Biological clocks in developmental periodism The dual system theory of the biological clock Physiology of the biological clock Photoperiodism The Physiology of Diapause in Arthropods Anthony David Lees, 2021-09-10 This work has been and adaptation selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant Insect Development Victor A. Zaslavski, A. Veerman, 1988-05-25 Reactions and processes controlling the seasonal development of insects general features of the mechanism of photoperiodic and temperature control of development modeling the phuysiological mechanism

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Brown, Ivo Hodek, 1983 The Impact of Insect Diapause on Water Balance Physiology Jay Alan Yoder, David L.

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