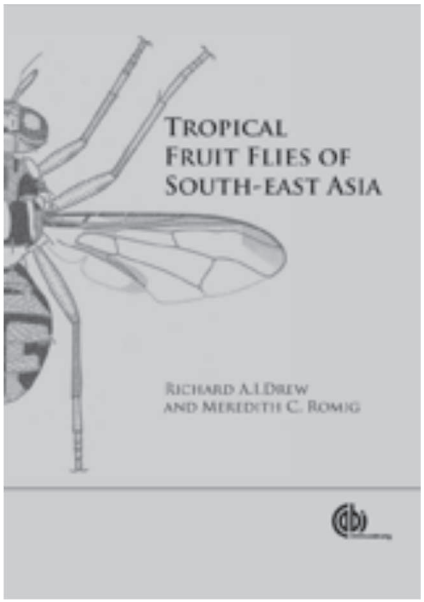
Tropical Fruit Flies of South-East Asia

(Tephritidae: Dacinae)

R. Drew, M. Romig



As global warming and species migration become more prevalent issues, there is an urgent need for a text that provides comprehensive taxonomic details and geographic distributions of Dacinae fruit flies within south-east Asia. In particular, some of the major pest species of this region are being introduced on a regular basis to new geographical areas, causing widespread food security issues and economic hardship. Quarantine and horticultural organisations require detailed information on these fruit fly species in order to detect and eradicate any new incursions. This major new reference work details the taxonomic research into the subfamily Dacinae, which contains the tropical fruit flies of south-east Asia, as well as many other regions of the world. While focusing on south-east Asian fauna, all known species are included, through a study of the type material available in museums around the world. Specimens collected in major surveys conducted across Asia from 1983 to present have also been used to ensure a complete, in-depth review of this subfamily.

Key features: 120 recently discovered species; 500 detailed drawings; Revision of all known species; Updated geographical distributions and host records; Accurate list and detailed information of all known pest species.

Readership: Researchers of agriculture and entomology, quarantine services and the chemical and horticultural industries.

CAB international, Aug. 2013, Hardback, 856 p., ISBN-13: 978-178064-035-8, £135.00 / $260.00 / €175.00.

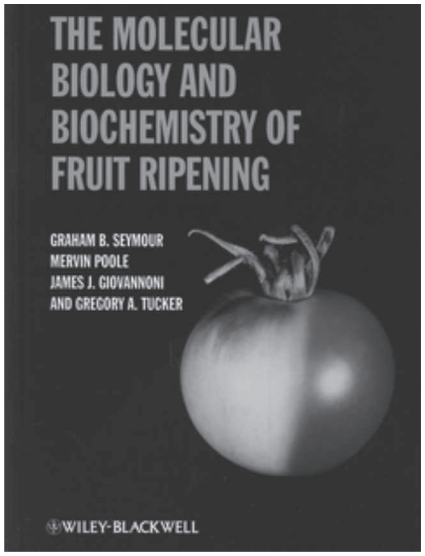
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The Molecular Biology and Biochemistry of Fruit Ripening

G.B. Seymour, M. Poole, J.J. Giovannoni, G.A. Tucker (Eds.)



A comprehensive and mechanistic perspective on fruit ripening, emphasizing commonalities and differences between fruit groups and ripening processes.

Fruits are an essential part of the human diet and contain important phytochemicals that provide protection against heart disease and cancers. Fruit ripening is of importance for human health and for industry-based strategies to harness natural variation, or genetic modification, for crop improvement.

This book covers recent advances in the field of plant genomics and how these discoveries can be exploited to understand evolutionary processes and the complex network of hormonal and genetic control of ripening. The book explains the physiochemical and molecular changes in fruit that impact its quality, and recent developments in understanding of the genetic, molecular and biochemical basis for colour, flavour and texture. It is a valuable resource for plant and crop researchers and professionals, agricultural engineers, horticulturists, and food scientists.

Summary: Reviews the physiochemical and molecular changes in fruit which impact flavour, texture, and colour; Covers recent advances in genomics on the genetic, molecular, and biochemical basis of fruit quality; Integrates information on both hormonal and genetic control of ripening.

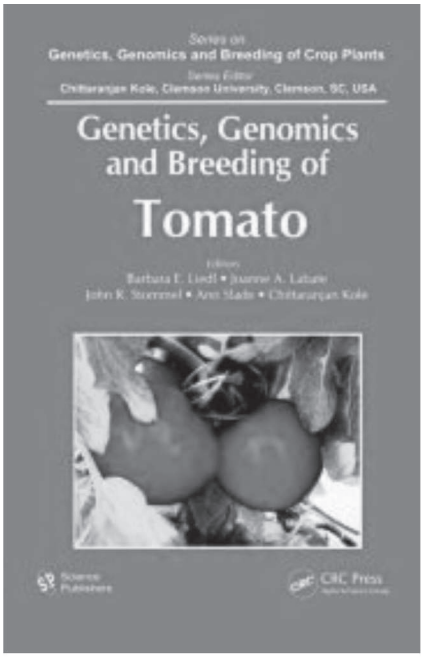
Ed. Wiley-Blackwell, June 2013, Hardcover, 226 p., ISBN: 978-0-8138-2039-2, £199.95 / €180.00 (e-books available).

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Genetics, Genomics, and Breeding of Tomato

Barbara E. Liedl, Joanne A. Labate, John R. Stommel, Ann Slade, Chittaranjan Kole (Eds.)



This volume covers the advances in the study of tomato diversity and taxonomy. It examines the mapping of simple and complex traits, classical genetics and breeding, association studies, molecular breeding, positional cloning, and structural and comparative genomics. The contributors also discuss transcriptomics, proteomics, metabolomics, and bioinformatics. The information in this book will be useful to researchers working on other Solanaceaous crops as well as those interested in using the tomato as a model crop species.

CRC Press (Taylor & Francis Group), Science Publ., Hardback, Jan. 2013, English, 520 p., ISBN-13: 978-146656-325-4, £76.99.

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