# Arthropod-plant interactions : novel insights and approaches for IPM /

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Monografía

The book consists of multiple chapters by leading experts on the different aspects in the unique relationship between arthropods and plants, the underlying mechanisms, realized successes and failures of interactions and application for IPM, and future lines of research and perspectives. Interesting is the availability of the current genomes of different insects, mites and nematodes and different important plants and agricultural crops to bring better insights in the cross talk mechanisms and interacting players. This book will be the first one that integrates all this fascinating and newest (from the last 5 years) information from different leading research laboratories in the world and with perspectives from academia, government¡and industry



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**Contenido:** Co-evolution of Genes for Specification in Arthropod-Plant Interactions: A Bioinformatic Analysis in Plant and Arthropod Genomes Manuel Martinez. -- The Impact of Induced Plant Volatiles on Plant-Arthropod Interactions Juan M. Alba, Petra M. Bleeker, Joris J. Glas, Bernardus C.J. Schimmel and Michiel van Wijk, et al. -- Physiological Adaptations of the Insect Gut to Herbivory Félix Ortego. -- Successes and Failures in Plant-Insect Interactions: Is it Possible to Stay One Step Ahead of the Insects? Angharad Gatehouse and Natalie Ferry. -- Multitrophic Interactions: The Entomovector Technology Guy Smagghe, Veerle Mommaerts, Heikki Hokkanen and Ingeborg Menzler-Hokkanen. -- Biotechnological Approaches to Combat Phytophagous Arthropods Isabel Diaz and M. Estrella Santamaria. -- Use of RNAi for Control of Insect Crop Pests Luc Swevers and Guy Smagghe.

-- Regulatory Approvals of GM Plants (Insect Resistant) in European Agriculture: Perspectives from Industry Jaime Costa and Concepcion Novillo

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