

1. Record Nr.	UNINA9910455294003321
Titolo	Specialization, speciation, and radiation [[electronic resource]] : the evolutionary biology of herbivorous insects // edited by Kelley Jean Tilmon
Pubbl/distr/stampa	Berkeley, : University of California Press, 2008
ISBN	1-282-35927-4 9786612359279 0-520-93382-6
Descrizione fisica	1 online resource (360 p.)
Altri autori (Persone)	TilmonKelley Jean
Disciplina	595.7138
Soggetti	Phytophagous insects - Evolution Phytophagous insects - Behavior Insect-plant relationships Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chemical mediation of host-plant specialization : the papilionid paradigm / May R. Berenbaum and Paul P. Feeny -- Evolution of preference and performance relationships / Timothy P. Craig and Joanne K. Itami -- Evolutionary ecology of polyphagy / Michael S. Singer -- Phenotypic plasticity / Kailen A. Mooney and Anurag A. Agrawal -- Selection and genetic architecture of plant resistance / Mary Ellen Czesak, Robert S. Fritz, and Cris Hochwender -- Introgression and parapatric speciation in a hybrid zone / J. Mark Scriber, Gabe J. Ording, and Rodrigo J. Mercader -- Host shifts, the evolution of communication, and speciation in the <i>Enchenopa binotata</i> species complex of treehoppers / Reginald B. Cocroft, Rafael L. Rodriguez, and Randy E. Hunt -- Host fruit-odor discrimination and sympatric host-race formation / Jeffrey L. Feder and Andrew A. Forbes -- Comparative analyses of ecological speciation / Daniel J. Funk and Patrik Nosil -- Sympatric speciation : norm or exception? / Douglas J. Futuyma -- Host-plant use, diversification, and coevolution : insights from remote Oceanic islands / George K. Roderick and Diana M. Percy -- Selection

by pollinators and herbivores on attraction and defense / Lynn S. Adler -- Adaptive radiation : phylogenetic constraints and ecological consequences / Peter W. Price -- Sequential radiation through host-
race formation : herbivore diversity leads to diversity in natural enemies / Warren G. Abrahamson and Catherine P. Blair -- The oscillation hypothesis of host-plant range and speciation / Niklas Janz and Soren Nylin -- Coevolution, cryptic speciation, and the persistence of interactions / John N. Thompson -- Cophylogeny of figs, pollinators, galls, and parasitoids / Summer I. Silvieus, Wendy L. Clement, and George D. Weiblen -- The phylogenetic dimension of insect-plant interactions : a review of recent evidence / Isaac S. Winkler and Charles Mitter -- Evolution of insect resistance to transgenic plants / Bruce E. Tabashnik and Yves Carriere -- Exotic plants and enemy resistance / John L. Maron and Montserrat Vila -- Life-history evolution in native and introduced populations / Robert F. Denno ... [et al.] -- Rapid natural and anthropogenic diet evolution : three examples from checkerspot butterflies / Michael C. Singer ... [et al.] -- Conservation of coevolved insect herbivores and plants / Carol L. Boggs and Paul R. Ehrlich.

Sommario/riassunto

The intimate associations between plants and the insects that eat them have helped define and shape both groups for millions of years. This pioneering volume is a comprehensive, up-to-date treatment of the evolutionary biology of herbivorous insects, including their relationships with host plants and natural enemies. Chapters focus on the dynamic relationships between insects and plants from the standpoint of evolutionary change at different levels of biological organization—individuals, populations, species, and clades. Written by prominent evolutionary biologists, entomologists, and ecologists, the chapters are organized into three sections: Evolution of Populations and Species; Co- and Macroevolutionary Radiation; and Evolutionary Aspects of Pests, Invasive Species, and the Environment. The volume is unified by the idea that understanding the ecological framework of the interactions between herbivorous insects and their host plants is fundamental to understanding their evolution.

2. Record Nr.	UNINA9910340853803321
Autore	De Meeûs Thierry
Titolo	Initiation à la génétique des populations naturelles : Applications aux parasites et à leurs vecteurs // Thierry De Meeûs
Pubbl/distr/stampa	Marseille, : IRD Éditions, 2017
ISBN	2-7099-2282-7
Descrizione fisica	1 online resource (335 p.)
Soggetti	Environmental studies, Geography & Development génétique des population parasite vecteur de maladies
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	La compréhension de l'épidémiologie d'une maladie infectieuse ou parasitaire passe par une connaissance minimale du fonctionnement des populations vivantes concernées. Ainsi, pour remédier à la difficulté d'obtenir des observations directes sur la biologie des populations naturelles, notamment dans les pays du Sud, l'utilisation de marqueurs génétiques permet d'avoir accès, à travers des méthodes indirectes, à des informations clés sur la biologie des agents pathogènes et de leurs vecteurs : écologie, mode de reproduction, déplacements, taille des populations, etc. Un outil précieux dans le domaine de la santé, où l'analyse de la variation spatio-temporelle des marqueurs génétiques peut ainsi être utilisée pour caractériser la dynamique des populations de parasites et de leurs vecteurs, pour connaître l'évolution d'une maladie infectieuse ou parasitaire, évaluer les risques d'invasions ou d'épidémie, le potentiel de diffusion de gènes résistants, anticiper les stratégies de lutte... Ce manuel didactique présente les principales méthodes de la génétique des populations naturelles et les modèles de base utilisés pour les inférences, avec des cas concrets d'applications à destination des étudiants et personnels de santé. Plusieurs jeux de données sont analysés pas à pas dans un CD-

ROM qui accompagne l'ouvrage.
