

1. Record Nr.	UNINA9910963538803321
Autore	Hunt James H
Titolo	The evolution of social wasps / / James H. Hunt
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2007
ISBN	9780198042075 0198042078
Edizione	[1st ed.]
Descrizione fisica	xxi, 259 p. : ill
Disciplina	595.79/8156
Soggetti	Vespidae - Behavior Social behavior in animals
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. 207-248) and index.
Nota di contenuto	Intro -- Contents -- Foreword -- Introduction -- I. History -- 1. Plant Feeders and Parasitoids -- Symphytans -- Apocrita -- Aculeata -- 2. Pollen Wasps, Potter Wasps, and Hover Wasps -- Euparagiinae -- Masarinae -- Eumeninae -- Stenogastrinae -- 3. Paper Wasps and Vespines -- Independent-founding Polistinae -- Swarm-founding Polistinae -- Vespinae -- 4. The Historical Scenario of Social Evolution -- Overview -- Diphyletic Sociality in Vespidae -- Sociality in Stenogastrinae -- Sociality in Polistinae (+ Vespinae) -- A Further Argument for Diphyletic Vespid Sociality -- Beyond the Sociality Threshold -- II. Dynamics -- 5. Individuals -- Midgut Proteases -- Free Amino Acids -- Fat Body and Storage Protein -- Polyphenism -- Diapause and Quiescence -- 6. Colonies -- Colony Founding and Nest Construction -- Alloparental Offspring -- Supplementation Experiments -- Ecotrophobiosis and Diminishment Experiments -- Dominance and Cofoundress Interactions -- 7. Populations -- An Exemplary Solitary Wasp -- Polistes -- Paper Wasps as Annuals -- Usurpation and Inquilinism -- Multiple Foundresses -- Opportunity for Selection -- Stenogastrines, Vespines, and Swarm Founders -- 8. The Dynamic Scenario of Social Evolution -- The Ovarian Ground Plan Hypothesis -- The Reproductive Ground Plan Hypothesis -- Life Cycles in Solitary Wasps -- The Diapause Ground Plan Hypothesis -- The Dynamic Scenario -- Synthesis -- Other Social Wasps -- Phylogenetic

Implications -- The Selective Basis of Caste -- III. Paradigm Lost-and Found? -- 9. Kin Selection -- Haplodiploidy -- Sex Ratio -- Inclusive Fitness -- The Future of Kin Selection -- 10. Behavioral Ecology -- Altruism -- Teleology -- Labeling -- Adaptationism -- Asking Why -- The Real Difficulty -- 11. A Postmodern Synthesis -- Phenotypic Plasticity -- Colony-level Selection -- An Action Plan for Research on Vespidae.

Conclusion -- References -- Author Index -- A -- B -- C -- D -- E -- F -- G -- H -- I -- J -- K -- L -- M -- N -- O -- P -- Q -- R -- S -- T -- U -- V -- W -- Y -- Z -- Subject Index -- A -- B -- C -- D -- E -- F -- G -- H -- I -- K -- L -- M -- N -- O -- P -- Q -- R -- S -- T -- U -- V -- W -- Z.

Sommario/riassunto

The Evolution of Social Wasps resolves one of evolutions most intriguing problems - the origin of insect sociality. It also challenges conceptual approaches that have dominated three decades of social behavior research. Hunt's innovative model integrates life history, nutrition, development and ecology. His broad synthesis of empirical knowledge on social wasps should interest evolution biologists, behavioral ecologists, or entomologists alike.
