Dharam P. Abrol

# Asiatic Honeybee Apis cerana

Biodiversity Conservation and Agricultural Production



Joacim Rocklöv

**Asiatic Honeybee APIs Cerana** Dharam P. Abrol, 2013-09-30 **Pollination Biology** Dharam P. Abrol, 2011-10-05 This book has a wider approach not strictly focused on crop production compared to other books that are strictly oriented towards bees but has a generalist approach to pollination biology It also highlights relationships between introduced and wild pollinators and consequences of such introductions on communities of wild pollinating insects The chapters on biochemical basis of plant pollination interaction pollination energetics climate change and pollinators and pollinators as bioindicators of ecosystem functioning provide a base for future insights into pollination biology The role of honeybees and wild bees on crop pollination value of bee pollination planned honeybee pollination non bee pollinators safety of pollinators pollination in cages pollination for hybrid seed production the problem of diseases genetically modified plants and bees the role of bees in improving food security and livelihoods capacity building and awareness for pollinators are also discussed Change and Mango Production Syed Atif Hasan Nagyi, Shakeel Ahmad, Mukhtar Ahmed, 2025-07-26 The significance of the climate change and their impacts on fruit crops their problems and their solutions determine the need for a book in agriculture So firstly we are going to talk about the importance of climate change and the shift of the climate due to various reasons Similarly king of fruits mango is also facing various issues due to climate change and the most important problems which are causing serious constraints to mango production are Mango sudden decline and mango malformation These problems have emerged in orchards since the issue of climate change is increasing day by day and currently there is no mango orchard free from these diseases and leading to very low production of the crop with respect to previous years Similarly climate change has also raised the issue of unseen pathogens in the mango orchards posing serious challenges to mango production due to new diseases and stresses The main drivers behind the writing of this book is that this book will disseminate a plethora of knowledge on how to deal smartly with the mango orchards in changing climate to obtain good yield and to maintain good health status An Illustrated Glossary of Honey Bee and Beekeeping Terminology Sue Remenyi, 2021-08-31 An Illustrated Glossary of Honey Bee and Beekeeping Terminology by Sue Remenyi is an invaluable reference book for all beekeepers As with any activity there is always a significant amount of terminology and jargon to get to grips with and this glossary brings together the terminology a beekeeper needs In addition more advanced aspects of beekeeping such as the anatomy and biology of the honey bee as well as pests diseases and treatments the development and behaviour of honey bees honey and honey production are addressed With more than 800 definitions and 200 illustrations this pocket sized book is a useful reference for all beekeepers Anyone studying for the British Beekeepers Association's module exams will find this book invaluable Drawings and photographs have been used wherever possible to illustrate the descriptions Phylogenetics of Bees Rustem Abuzarovich Ilyasov, Hyung Wook Kwon, 2019-12-19 Bees are flying insects of the order Hymenoptera closely related to wasps and ants The ancestors of bees are assumed to be predatory wasps which

switched to pollen consumption Further bees co evolved with flowering plants and divided into several species according to climatic conditions Widely known bees are western bees Apis mellifera and eastern bees Apis cerana This book sheds light on features of evolution phylogenesis speciation adaptation to environment and taxonomy of bees It will be of particular relevance to evolutionists geneticists taxonomists ecologists population geneticist and breeders 21st Century Panuwan Chantawannakul, Geoffrey Williams, Peter Neumann, 2018-06-01 From the perspective of local scientists this book provides insight into bees and bee management of Asia with a special focus on honey bees Asia is home to at least nine honey bee species including the introduced European honey bee Apis mellifera Although A mellifera and the native Asian honey bee Apis cerana are the most commonly employed species for commercial beekeeping the remaining non managed native honey bee species have important ecological and economic roles on the continent Species distributions of most honey bee species overlap in Southeast Asia thus promoting the potential for interspecies transmission of pests and parasites as well as their spread to other parts of the world by human translocation Losses of managed A mellifera colonies is of great concern around the world including in Asia Such global colony losses are believed to be caused in part by pests and parasites originating from Asia such as the mite Varroa destructor the microsporidian Nosema ceranae and several bee viruses Taking advantage of the experience of leading regional bee researchers this book provides insight into the current situation of bees and bee management in Asia Recent introductions of honey bee parasites of Asian origin to other parts of the world ensures that the contents of this book are broadly relevant to bee scientists researchers government offi cials and The Dark Side of the Hive Robin Moritz, Robin Crewe, 2018-08-20 Honey bees have the general public around the world been described as exceptionally clever well organized mutualistic collaborative busy efficient in short a perfect society While the colony is indeed a marvel of harmonious efficient organization it also has a considerable dark side Authors Robin Moritz and Robin Crewe write about the life history of the honey bee Apis mellifera highlighting conflict rather than harmony failure rather than success from the perspective of the individual worker in the colony When one looks carefully the honey bee colony is far from being perfect As with any complex social system honeybee societies are prone to error robbery cheating and social parasitism Nevertheless the hive gets by remarkably well in spite of many seemingly odd biological features The perfection that is perceived to exist in the honeybee s social organization is the function of a focus on the colony as a whole rather than exploring the idiosyncrasies of its individual members The Dark Side of the Hive thus focuses on the role of the individual rather than that of the collective Moritz and Crewe dissect the various careers that individual male and female honey bees can take and their role in colony organization Competition between individuals using both physical and chemical force drives colonial organization This book deals with individual mistakes maladaptations and evolutionary dead ends that are also part of the bees life The story told about these dark sides of the colony spans the full range of biological disciplines ranging from genomics to systems biology Mountain Agriculture in the Hindu Kush-Himalayan Region ,2003

Contributed papers presented at International Symposium on Mountain Agriculture in the Hindu Kush Himalayas Sustainable use and conservation of invertebrate pollinators Aizen, M.A., Basu, P., Bienefeld, K., Biesmeijer, J.C., Garibaldi, L.A., Gemmill-Herren, B., Imperatriz-Fonseca, V.L., Klein, A-L., Potts, S.G., Seymour, C.L., Vanbergen, A.J., 2023-06-26 Recognizing the importance of invertebrate pollinators the Commission on Genetic Resources for Food and Agriculture Commission at its Seventeenth Regular Session in 2019 adopted its Work Plan for the Sustainable Use and Conservation of Microorganism and Invertebrate Genetic Resources for Food and Agriculture and decided to address pollinators including honey bees at its Nineteenth Regular Session Building on global assessments addressing pollinators published in 2016 and 2019 respectively by the Intergovernmental Science Policy Platform on Biodiversity and Ecosystem Services IPBES and FAO this study provides up to date information on the status and trends of invertebrate pollinators maps relevant regional and international initiatives and identifies gaps and needs Role of Giant Honeybees in Natural and Agricultural Systems DP Abrol, 2023-09-19 Role of Giant Honeybees in Natural and Agricultural Systems provides multidisciplinary perspective about the different facets of giant honeybees Giant honeybees Apis dorsata and Apis laboriosa are excellent pollinators of crops fruits and vegetables in cultivated and natural lanscapes Their large size long foraging range and large work force make them the most spectacular of all honeybee species for crop pollination and honey production Due to their decline ecosystems and global food security are being threatened This book is the first of its kind which deals in detail on varied aspects of giant honeybee biology management conservation strategies for protecting biodiversity and enhancing crop productivity It aims to promote a large diverse sustainable and dependable bee pollinator workforce that can meet the challenge for optimizing food production in 21st century SALIENT FEATURES Covers the latest information on various aspects of biology of giant honeybees and brings the latest advances together in a single volume for researchers and advanced level students Provides an excellent source of advanced study material for academics researchers and students and programme planners Provides an excellent source of livelihood in mountainous areas and marginal farmers Deals with biology management and conservation strategies for protecting biodiversity and enhancing crop productivity Excellent pollinator of tropical and subtropical crops fruits vegetables etc less prone to diseases and enemies This book will be useful for pollination biologists honeybee biologists scientists working in agriculture animal behavior conservation biology ecology entomologists environmental biologists etc

Invertebrate Biodiversity as Bioindicators of Sustainable Landscapes Maurizio G. Paoletti,2012-12-02 Reducing environmental hazard and human impact on different ecosystems with special emphasis on rural landscapes is the main topic of different environmental policies designed in developed countries and needed in most developing countries This book covers the bioindication approach of rural landscapes and man managed ecosystems including both urbanised and industrialised ones The main techniques and taxa used for bioindication are considered in detail Remediation and contamination is faced with diversity abundance and dominance of biota mostly invertebrates Invertebrate Biodiversity as

Bioindicators of Sustainable Landscapes provides a basic tool for students and scientists involved in landscape ecology and planning environmental sciences landscape remediation and pollution Modern Beekeeping Ramón Eduardo Rebolledo Ranz, 2020-08-26 Beekeeping worldwide has seen remarkable development in the face of the growing demand for products from bees by consumers who demand increasingly innocuous products that do not harm the environment However it should be noted that recently problems have arisen in beekeeping production that could become restrictive factors for the worldwide development of beekeeping This book includes in simple and accessible terms very relevant topics such as the effect of pesticides the impact of diseases and their management production and analysis of pollen present in honey DNA analysis and sustainable management among others This book is answering an expected need for accurate and international information for the productive sector Asian Bees and Beekeeping Asian Apicultural Association. International Conference, 2000 An overview of bees and beekeeping research and development in Asia which highlights the issues related to conservation and management of the Asian hive bee Apis cerana Learning 'from' and 'with' the Locals Anwesha Borthakur, Pardeep Singh, 2024-10-14 This book aims to capture the fading traditional knowledge systems of local and indigenous communities in the Himalayas As many of these practices are at risk of disappearing the book serves as a valuable record It encourages readers to reflect on the implications of such knowledge for environmental sustainability today Focusing on one of the most crucial mountain ranges globally the book emphasizes the importance of learning from and with the locals about their lived experiences in the Himalayas Understanding their unique set of traditional knowledge and technologies is crucial for building climate resilience and effective environmental management With contributions from experts across the Himalayan region the book strives for a comprehensive grasp of environmental challenges and potential solutions Beyond documentation the goal is to explore opportunities for integrating traditional knowledge with modern scientific approaches Recognizing the urgency the book advocates for the preservation of local and indigenous knowledge to address the ongoing global environmental crisis Bees for Development Journal, 2002 The Secret Lives of Honeybees Barrett Williams, ChatGPT, 2025-04-05 Unlock the captivating world of honeybees with The Secret Lives of Honeybees an enthralling exploration into one of nature s most essential and enigmatic creatures Dive into the hidden intricacies that govern a honeybee's life from the moment it emerges in the hive to its critical role in sustaining global biodiversity and agriculture Begin your journey with a fascinating introduction to honeybees where you ll discover their vital significance as pollinators and unravel the mysteries of their diverse species Delve into the anatomy of these small yet mighty insects examining both their external features and sophisticated internal systems Explore the hive s intricate social structure where a single queen reigns over worker bees and drones each contributing uniquely to the colony's prosperity Follow the lifecycle of honeybees closely tied to environmental cues and observe their extraordinary foraging behavior highlighted by the mesmerizing waggle dance that unlocks nature s bounty Discover how honeybees shape ecosystems through pollination

networks and influence local flora and fauna Uncover their indispensable role in agriculture a cornerstone of economic value corresponding to their bustling existence in crops worldwide Examine honeybee plant interactions that showcase co evolutionary marvels and highlight the impact of floral diversity on bee populations In The Secret Lives of Honeybees you will also confront the critical threats these industrious insects face today from pesticides and climate change to habitat loss Learn about global conservation efforts aimed at securing their future and the groundbreaking research paving the way for innovative bee friendly technologies Venture into the beekeeper's realm to witness the seasons of an apiary and the sweet rewards of honey and wax cultivation With a forward looking perspective this book inspires reflection on the interconnected web of life prompting action to support honeybees and ensuring their vibrant presence for generations to come

Sustainable Agriculture ,2001 The Hindu Kush Himalayas ,1999 The Future Role of Dwarf Honey Bees in Natural and Agricultural Systems DP Abrol, 2020-07-08 The future role of dwarf honeybees in natural and agricultural systems provides multidisciplinary perspective about the different facets of dwarf honeybees. The role of dwarf honeybee Apis florea assumes utmost importance in the context of pollinator decline throughout the world threatening stability of ecosystems and global food security Apis florea is a low land species of south Asia extending more to the west than other Asiatic Apis species It is an important pollinator of crops in hot and dry agricultural plains The book is first of its kind which deals in details on varied aspects of Apis florea biology management conservation strategies for protecting biodiversity and enhancing crop productivity The book aims to promote a large diverse sustainable and dependable bee pollinator workforce that can meet the challenge for optimizing food production well into the 21st century Features Apis florea provides source of livelihood in mountainous areas and marginal farmers This book will for the first time present the beekeeping from the perspective of agricultural production and biodiversity conservation An excellent source of advanced study material for academics researchers and students and programme planners Excellent pollinator of tropical and subtropical crops fruits vegetables etc less prone to diseases and enemies Covering the latest information on various aspects of Apis florea biology this book brings the latest advances together in a single volume for researchers and advanced level students This book will be useful to pollination biologists honeybee biologists in entomology departments students teachers scientists of agriculture animal behaviour botany conservation biology ecology entomology environmental biology forestry genetics plant breeding horticulture toxicology zoology seed growers and seed agencies and shall serve as reference book for students teachers researchers extension functionaries and policy planners Bees and Crop Pollination Constance S. Stubbs, Francis A. Drummond,2001

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