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Patricia Vit, Silvia R.M. Pedro, David W. Roubik (Eds.)

Pot-Pollen in Stingless Bee Melittology

- Provides reviews, new research, guidelines, and references on diverse topics concerning pollen from the world's leading experts
- Investigates controlling factors in the behavior of pollinators returning to their nests, predicting behavior of different stingless bee species
- Analyzes the development of artificial diets, management, pest control, and marketing of stingless bee-keeping

This book covers pot-pollen—the other product, besides honey, stored in cerumen pots by Meliponini. Critical assessment is given of stingless bee and pot-pollen biodiversity in the Americas, Africa, Asia and Oceania. Topics addressed include historical biogeography, cultural knowledge, bee foraging behavior, pollination, ecological interactions, health applications, microbiology, the natural history of bee nests, and chemical, bioactive and individual plant components in stored pollen. Pot-pollen maintains the livelihoods of stingless bees and provides many interesting biological products that are just now beginning to be understood. The Meliponini have developed particular nesting biologies, uses of building materials, and an architecture for pollen storage. Environmental windows provide optimal temperature and availability of pollen sources for success in plant pollination and pollen storage. Palynological composition and pollen taxonomy are used to assess stingless honey bee pollination services. Pollen processing with microorganisms in the nest modifies chemical composition and bioactivity, and confers nutraceutical benefits to the honey and pollen widely relished by native people. Humans have always used stingless bees. Yet, sustainable meliponiculture (stingless bee-keeping) projects have so far lacked a treatise on pot-pollen, which experts provide in this transdisciplinary, groundbreaking volume.

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