Special Issue

Recent Advances in Bee Parasite, Pathogen, and Predator Interactions

Message from the Guest Editor

Honeybees are major pollinators, and besides pesticides, global changes, and urbanization, parasites, pathogens, and predators are important factors responsible for the very alarming colony decline. The microsporidium *Nosema ceranae* (a fungus) and ectoparasite Varroa destructor (a mite) are common biotic stressors of honeybees that cause serious damage to colonies. Concerning *V. destructor*, what makes the mite so dangerous to *Apis mellifera* is that it has the capacity to transmit and replicate viruses such as deformed wing virus (DWV) and acute bee paralysis virus (ABPV). The aim of this Special Issue is to highlight original advanced research or reviews and to provide an updated integrated picture of honeybee-associated pests. Several topics, including new detection tools, epidemiological approaches, biotechnical approaches (e.g. RNA replication approaches), chemical communication management in the hive, new techniques reducing stress factors, integrated management based on coevolutive processes allowing the colony to tolerate pests, and colony selection approaches of resistance to pests, will be welcome in this issue.

Guest Editor

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