

Free download Interactions of insect pheromones and plant semiochemicals (PDF)

the potential of insect pheromones to attract natural enemies has mainly been established under laboratory conditions while semiochemicals from plants have been used to attract and retain natural enemies in field conditions using strategies such as trap crops and the push pull mechanism semiochemicals are defined as informative molecules mainly used in plant insect or insectinsect interactions as alternative or complementary components to insecticide approaches in different insects use semiochemicals a group of organic compounds to transmit these chemical messages over long distances that help them in surviving through locating a host mate and food and beating a host defense system or a natural enemy 1 semiochemicals have been exploited in several ways to manage insect pests these include monitoring and detection population suppression through mating disruption mass trapping and attract and kill techniques here we review different interactions between plant semiochemicals and insect pheromones paying attention to those that can result in the development of more efficient and reliable programs for pest control semiochemicals are an important alternative to chemical insecticides in crop production in this chapter we summarize current applications and future avenues of research driven developments of plant protection against insect pests involving semiochemicals plants provide chemical cues that are specific for species plant organs and the a biotic environmental conditions insects exploit these cues for various purposes such as habitat and host plant location host quality assessment aggregation mate finding and location of herbivorous prey plant semiochemicals are known to produce a wide range of behavioral responses in insects some insects sequester or acquire host plant compounds and use them as sex pheromones or sex pheromone precursors plants provide chemical cues that are specific for species plant organs and the a biotic environmental conditions insects exploit these cues for various purposes such as habitat and host plant location host quality assessment aggregation mate finding and location of herbivorous prey herbivore induced plant volatiles hipvs and host sex pheromones are important semiochemicals used by natural enemies to locate prey or hosts the egg parasitoid trichogramma achaeae nagaraja nagarkatti has recently shown potential for use as a biological control agent of tuta absoluta meyrick a key pest of tomato crops worldwide the semiochemicals characterized in this study could be used as a trap to collect male and female o longicollis weevils which could help prevent the development of this pest in banana many insects including parasitic insects use semiochemicals pheromones are intraspecific signals that aid in finding mates food and habitat resources warning of enemies and avoiding competition interspecific signals known as allomones and kairomones have similar functions thrips thysanoptera are small insects that can cause huge problems in agriculture horticulture and forestry through feeding and the transmission of plant viruses they produce a rich chemical diversity of pheromones and allomones and also respond to a broad range of semiochemicals from plants the potential of insect pheromones

to attract natural enemies has mainly been established under laboratory conditions while semiochemicals from plants have been used to attract and retain interactions of insect pheromones and plant semiochemicals trends plant sci 2004 may 9 5 253 61 doi 10 1016 j tplants 2004 03 009 authors gadi v p reddy 1 angel guerrero affiliation 1 agricultural experiment station college of natural and applied sciences university of guam mangilao guam 96923 usa reddy guam uog edu here we discuss various interactions between host semiochemicals and insect pheromones and their ecological implications in terms of insect behavior feeding and reproduction plant semiochemicals are known to produce a wide range of behavioral responses in insects phytochemistry is the study of phytochemicals which are chemicals derived from plants phytochemists strive to describe the structures of the large number of secondary metabolites found in plants the functions of these compounds in human and plant biology and the biosynthesis of these compounds plants synthesize phytochemicals for many semiochemicals whether attractant anti aggregant or anti feedant have shown some promise for managing bark beetles and invasive insects as have systemic and new pesticides however few of these strategies have been adequately tested deployed or optimized thus limiting their potential use sumitomo chemical co ltd 株式会社住友化学工業株式会社 sumitomo kagaku kabushiki gaisha is a major japanese chemical company the company is listed on the first section of the tokyo stock exchange and is a constituent of the on the nikkei 225 3 stock index it s a member of the sumitomo group and was founded in 1913 as a fertilizer manufacturing plant sumitomo chemical s pharmaceuticals business began in 1935 with the construction of a modern manufacturing plant based on its advanced organic synthesis technology which enabled integrated production from raw materials to finished pharmaceutical products

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insects use semiochemicals a group of organic compounds to transmit these chemical messages over long distances that help them in surviving through locating a host mate and food and beating a host defense system or a natural enemy 1

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semiochemicals have been exploited in several ways to manage insect pests these include monitoring and detection population suppression through mating disruption mass trapping and attract and kill techniques

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here we review different interactions between plant semiochemicals and insect pheromones paying attention to those that can result in the development of more efficient and reliable programs for pest control

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semiochemicals are an important alternative to chemical insecticides in crop production in this chapter we summarize current applications and future avenues of research driven developments of plant protection against insect pests involving semiochemicals

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plants provide chemical cues that are specific for species plant organs and the a biotic environmental conditions insects exploit these cues for various purposes such as habitat and host plant location host quality assessment aggregation mate finding and location of herbivorous prey

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here we discuss various interactions between host semiochemicals and insect pheromones and their ecological implications in terms of insect behavior feeding and reproduction plant semiochemicals are known to produce a wide range of behavioral responses in insects

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phytochemistry is the study of phytochemicals which are chemicals derived from plants phytochemists strive to describe the structures of the large number of secondary metabolites found in plants the functions of these compounds in human and plant biology and the biosynthesis of these compounds plants synthesize phytochemicals for many

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