



Insect Chemical Ecology: Pheromone Production and Perception

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Message from the Collection Editor

Dear Colleagues,

This Special Issue will collect current knowledge on the identification, production, regulation, and perception of “pheromones”, which are volatile natural chemical signals that, in the insect world, specifically change the behavior of others of the same species for adaptive responses. It is well known that insects have developed a variety of pheromone tissue cells, specialized glands and scent plaques for specific odor production, as well as remarkable machinery of enzymes, binding proteins, and receptors for odor recognition of sexual partners and host-plants in the primary olfactory detecting organs, the antennae. It is due to the existence of thousands of olfactory hairs (sensilla) covering the surface of antennal branches and thousands of olfactory receptor neurons within these sensilla that send projections to the insect brain. The scope of this Special Issue is broad, as contributions should explore the significance of pheromones in fundamental and applied research.

Prof. Jean-François Picimbon
Guest Editor

