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Recent Advances in Physiology of Insect Olfaction

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Deadline for manuscript submissions:
closed (1 March 2022)

Message from the Guest Editors

Dear colleagues,

The sense of smell is of pivotal importance to insects. Odorants originating from food, conspecifics, oviposition sites, or predators initiate and control a variety of insect behaviors essential for survival and reproduction. Insects use sophisticated olfactory systems to constantly screen their environment for olfactory cues and are able to detect behaviorally relevant odorants with remarkable sensitivity and precision.

This Special Issue aims at highlighting new research on the physiology of insect olfaction with a focus on the olfactory elements and processes that underly the peripheral detection of odorants, the central coding of odors and odor-guided behavior. We invite colleagues to submit original articles, short communications, or reviews that report newest findings or update our understanding of insect olfaction.