



Herbivorous Insects: Host-seeking Behavior and mechanisms

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Herbivorous Insects: Host-Seeking Behavior and Mechanisms addresses mechanisms of searching behavior leading ultimately to host location of herbivorous insects. It is divided into four sections, wherein the first two sections deal with neurophysiology and the diversity of behavioral induction cues. The third section covers the searching mechanisms as affected by insects' breadth of diet. The last part examines the evolutionary analysis of the behavioral and physiological adaptations in insect/host plant relations. This book starts with an introduction to the chemical sensory system as it relates to host selection in general. This is followed by considerable discussions on host-seeking behavior and allied patterns in behavior. This text also includes the study of oviposition behavior in butterflies belonging to Papilionidae. The third section presents host selection and colonization by three insects within the saprophage-predator continuum, namely, Hylurgopinus rufipes, Scolytus multistriatus, and Pissodes strobi. The behaviors by which certain oligophagous insects locate and select food plants are also considered. The concluding part addresses the unifying theme and the diversity of responses of phytophagous insects to plants. The book provides direction toward developing a unifying theme and improving the ability to unravel the

complexities of insect/plant interactions. Behaviorists, ecologists, entomologists, evolutionary biologists, and physiologists will find this book invaluable.



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