Special Issue

Interactions between Herbivorous Insects and Their Host Plants

Message from the Guest Editor

Many thousands of insect species obtain their nutrition from plants, primarily by feeding directly on root or foliage tissue or by extracting xylem or phloem sap. Some insects utilize a wide range of host plant species, whereas others are highly host-specific. Plant-insect interactions are now studied using a range of scientific approaches. Genomic and proteomic methods are now used extensively to assess how plants have evolved to defend themselves against insect herbivores, and how insects have evolved to overcome these defences. From an applied viewpoint, these interactions are often of considerable economic importance. Additionally, conservation of endangered insects requires consideration of host plant selection by females and the subsequent performance of larvae to indicate the suitability of these hosts. Herbivorous insects are increasingly being considered as beneficial species in terms of their potential value as biocontrol agents of noxious weeds and invasive exotic plants. This Special Issue aims to present a collection of high-quality scientific papers that provide significant new information in the applied and fundamental study of plants and insects.

Guest Editor

Dr. Simon Hodge

School of Agriculture and Food Sciences, University College Dublin, Dublin, Ireland

Deadline for manuscript submissions

closed (30 September 2021)



Plants

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/74035

Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

mdpi.com/journal/ plants





Plants

an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 7.6 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

