



Special Issue Reprint

Parasitic Weeds: Biology and Control

www.mdpi.com/books/reprint/6325

Edited by Evgenia Dor Yaakov Goldwasser

ISBN 978-3-0365-5289-7 (Hardback) ISBN 978-3-0365-5290-3 (PDF)

The parasitic lifestyle in plants has always been the subject of curiosity of scientists, but during the last decade, our understanding of parasitic plant-host interactions has greatly evolved due to rapid advances in molecular and genomic tools, especially high throughput DNA sequencing, transcriptomics, and metabolomics. Recent findings taken the science of parasitic plants to a higher level, opening up new horizons in parasitic weed management. The discovery of a novel family of phytohormones, the strigolactones, and their involvement in the host detection and evolution of parasitic plants, the detection of information exchange between host and parasite, and elucidation of the suppression of host defense mechanisms by parasites has led to a deeper understanding of physiological processes in host-parasite interactions. In the light of recent achievements, the re-evaluation of control management, including smart chemical control, crop breeding, and molecular genetics, are on the agenda.



Order Your Print Copy You can order print copies at www.mdpi.com/books/reprint/6325



MDPINBOOKS Publishing Open Access Books & Series

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



ᆔ

High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).

Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.

MDPI AG Grosspeteranlage 5 4052 Basel Switzerland Tel: +41 61 683 77 34 www.mdpi.com/books books@mdpi.com

