



## Belowground Defence Strategies in Plants [

Vos, Christine M.F.,  
editor  
Kazan, Kemal.,  
editor

Springer International Publishing :  
Imprint: Springer,  
2016

Monografía

This book summarizes our current knowledge on belowground defence strategies in plants by world-class scientists actively working in the area. The volume includes chapters covering belowground defence to main soil pathogens such as *Fusarium*, *Rhizoctonia*, *Verticillium*, *Phytophthora*, *Pythium* and *Plasmodiophora*, as well as to migratory and sedentary plant parasitic nematodes. In addition, the role of root exudates in belowground plant defence will be highlighted. Finally, accumulating evidence on how plants can differentiate beneficial soil microbes from the pathogenic ones will be covered as well. This will be further highlighted in chapters covering the plant responses to beneficial micro-organisms such as non-pathogenic *Fusarium*, *Trichoderma*, *Piriformospora* and arbuscular mycorrhizal fungi. Better understanding of belowground defences can lead to the development of environmentally friendly plant protection strategies effective against soil-borne pathogens which cause substantial damage on many crop plants all over the world. The book will be a useful reference for plant pathologists, agronomists, plant molecular biologists as well as students working on these and related areas

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTgzMDAzNTA>

**Título:** Belowground Defence Strategies in Plants Recurso electrónico-En línea] edited by Christine M.F. Vos, Kemal Kazan

**Editorial:** Cham Springer International Publishing Imprint: Springer 2016

**Descripción física:** VIII, 410 p. 24 illus., 20 illus. in color. online resource

**Tipo Audiovisual:** Life sciences Agriculture Microbial ecology Plant pathology Plant physiology Life Sciences Plant Pathology Plant Physiology Agriculture Microbial Ecology

**Mención de serie:** Signaling and Communication in Plants 1867-9048

**Documento fuente:** Springer eBooks

**Nota general:** Biomedical and Life Sciences (Springer-11642)

**Contenido:** 1 Introduction to belowground defense strategies in plants -- PART I General principles of belowground defense strategies -- 2 Belowground defense strategies in plants: Parallels between root responses to beneficial and pathogenic micro-organism -- 3 Root exudates as an integral part of belowground plant defense -- PART II Belowground defense strategies to root pathogens -- 4 Belowground defense strategies against *Fusarium oxysporum* -- 5 Belowground defense strategies against *Rhizoctonia* -- 6 Belowground defense strategies against *Verticillium* -- 7 Belowground and aboveground strategies of plant resistance against *Phytophthora* species -- 8 Belowground signaling and defense in host-Pythium interactions -- 9 Belowground defense strategies against clubroot (*Plasmodiophora brassicae*) -- 10 Belowground defense strategies against sedentary nematodes -- 11 Belowground defense strategies against migratory nematodes -- PART III Root responses to beneficial micro-organisms -- 12 Root interactions with non-pathogenic *Fusarium* -- 13 Belowground defense strategies in plants: the plant-Trichoderma dialogue -- 14 Defense reactions in roots elicited by endofungal bacteria of the Sebacinalean symbiosis -- 15 Mitigating abiotic stresses in crop plants by arbuscular mycorrhizal fungi

**Restricciones de acceso:** Accesible sólo para usuarios de la UPV

**Tipo recurso electrónico:** Recurso a texto completo

**Detalles del sistema:** Forma de acceso: Web

**ISBN:** 9783319423197

**Autores:** Vos, Christine M.F., editor Kazan, Kemal., editor

**Entidades:** SpringerLink (Servicio en línea)

**Enlace a formato físico adicional:** Printed edition 9783319423173

**Punto acceso adicional serie-Título:** Signaling and Communication in Plants 1867-9048

---

## Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)