



# Plant Aquaporins : From Transport to Signaling /

Chaumont, François  
Tyerman, Stephen D

Springer International Publishing :  
Imprint: Springer,  
2017

Libros electrónicos

Recursos electrónicos

Monografía

Aquaporins are channel proteins that facilitate the diffusion of water and small uncharged solutes across cellular membranes. Plant aquaporins form a large family of highly divergent proteins that are involved in many different physiological processes. This book will summarize the recent advances regarding plant aquaporins, their phylogeny, structure, substrate specificity, mechanisms of regulation and roles in various important physiological processes related to the control of water flow and small solute distribution at the cell, tissue and plant level in an ever-changing environment

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTg2NjY3Nzg>

**Título:** Plant Aquaporins From Transport to Signaling edited by François Chaumont, Stephen D Tyerman

**Editorial:** Cham Springer International Publishing Imprint: Springer 2017

**Descripción física:** 1 recurso en línea VIII, 353 p. 30 il., 29 il. en color

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

**Contenido:** Structural basis of permeation function of plant aquaporins -- Heteromerization of plant aquaporins -- Plant aquaporin trafficking -- Plant aquaporin post-translational regulation -- Plant aquaporins and cell elongation Aquaporins and root water uptake -- Aquaporins and leaf water relations -- Roles of aquaporins in stomata -- Aquaporins and abiotic stress -- Plant aquaporins and signaling -- Role of aquaporins in maintenance of xylem hydraulic capacity -- Plant aquaporins and CO<sub>2</sub> -- NIP subfamily -- Plant aquaporins and metalloids -- Plant aquaporins and mycorrhizae: their regulation and involvement in plant physiology and performance

**Detalles del sistema:** Modo de acceso: World Wide Web

**ISBN:** 9783319493954 978-3-319-49395-4

**Materia:** Life sciences Plant biochemistry Proteins Cell membranes Plant physiology Life Sciences Plant Physiology Plant Biochemistry Protein Science Membrane Biology Ciencias biomédicas

**Autores:** Chaumont, François Tyerman, Stephen D

**Entidades:** SpringerLink (Online service)

---

## **Baratz Innovación Documental**

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