

Contents

Nitric Oxide and Plant Growth Promoting Rhizobacteria: Common Features Influencing Root Growth and Development

Celeste Molina-Favero, Cecilia Mónica Creus, María Luciana Lanteri, Natalia Correa-Aragunde, María Cristina Lombardo, Carlos Alberto Barassi, and Lorenzo Lamattina

How the Environment Regulates Root Architecture in Dicots

Mariana Jovanovic, Valérie Lefebvre, Philippe Laporte, Silvina Gonzalez-Rizzo, Christine Lelandais-Brière, Florian Frugier, Caroline Hartmann and Martin Crespi

Aquaporins in Plants: From Molecular Structure to Integrated Functions

Olivier Postaire, Lionel Verdoucq and Christophe Maurel

Iron Dynamics in Plants

Jean-François Briat

Plants and Arbuscular Mycorrhizal Fungi: Cues and Communication in the Early Steps of Symbiotic Interactions

V. Gianinazzi-Pearson, N. Séjalon-Delmas, A. Genre, S. Jeandroz, P. Bonfante

Dynamic Defense of Marine Macroalgae against Pathogens: From Early Activated to Gene-regulated Responses

Audrey Cosse, Catherine Leblanc and Philippe Potin

Cover Illustration: Representation of plant root patterning in the primary root and lateral organs and the effect of the soil environment. The images show a root tip (below right) from *Arabidopsis* (Col-0 ecotype) stained with propidium iodide and periodic acid Schiff stain; a lateral root (up right) section of *Medicago sativa* (stained with propidium iodide) and a symbiotic nodule from *M. truncatula* (center) showing GFP fluorescence in vascular tissues, meristematic and differentiating regions. All images were obtained using confocal microscopy.



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