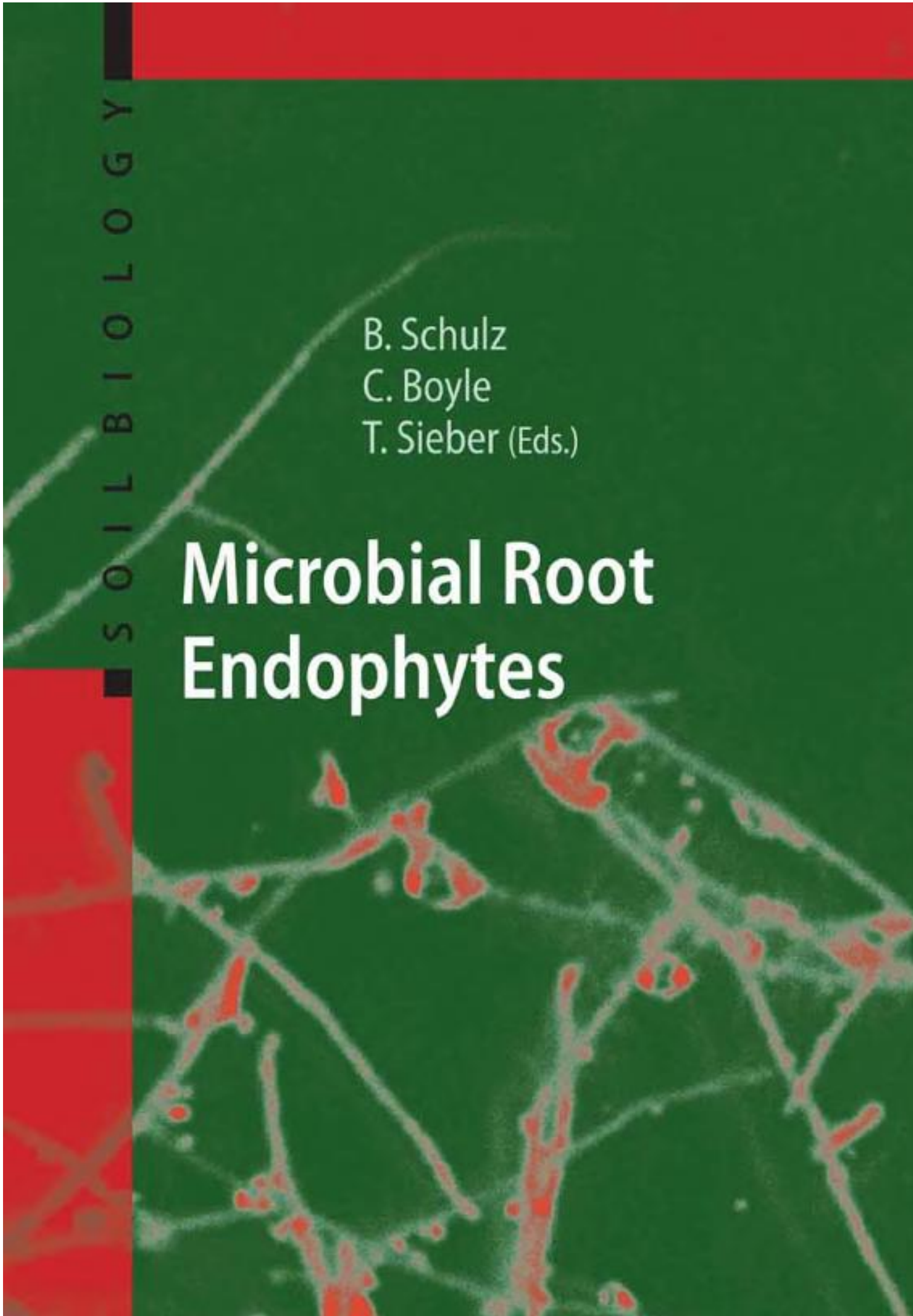


S O I L B I O L O G Y

B. Schulz
C. Boyle
T. Sieber (Eds.)

Microbial Root Endophytes



Microbial Root Endophytes, ISSN 1613-3382, Barbara J. E. Schulz, Christine J. C. Boyle, Thomas N. Sieber, Springer, 2007, 3540335269, 9783540335269, 387 pages. Plant roots may not only be colonized by mycorrhizal fungi, but also by a myriad of bacterial and fungal root endophytes that are usually not considered by the investigators of classic symbioses. This is the first book dedicated to the interactions of non-mycorrhizal microbial endophytes with plant roots. The phenotypes of these interactions can be extremely plastic, depending on environmental factors, nutritional status, genetic disposition and developmental stages of the two partners. The book deals with diversity, life history strategies, interactions, applications in agriculture and forestry, methods for isolation, cultivation, and both conventional and molecular methods for identification and detection of these endophytes. The comprehensive reviews demonstrate the high diversity of interactions and will provoke further studies to better understand the mechanisms which determine whether a plant-microbial interaction remains asymptomatic, leads to disease or to a mutualistic interaction..

DOWNLOAD [HERE](#)

Biotic Interactions in the Tropics Their Role in the Maintenance of Species Diversity, David Burslem, Michelle Pinard, Sue Hartley, Sep 8, 2005, Nature, 564 pages. A comprehensive review that deals with Old and New World tropics and taxa at all trophic levels..

Plant-Associated Bacteria , Samuel S. Gnanamanickam, Nov 14, 2007, Science, 712 pages. This volume is developed on the broad theme of plant-associated bacteria. It is envisioned as a resource volume for researchers working with beneficial and harmful groups of

Endophytes of Forest Trees Biology and Applications, Anna Maria Pirttilä, A. Carolin Frank, Jul 11, 2011, Biochemistry, 329 pages. Found in every plant species, the diversity of endophytic micro-organisms can be extremely high within different plant organs and tissue types. In trees, their ecological roles

Bacteria in Agrobiolgy: Plant Probiotics Plant Probiotics, Dinesh K. Maheshwari, Apr 23, 2012, Science, 385 pages. The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long-term production potential. An ecologically and economically

Plant Surface Microbiology , Ajit Varma, May 14, 2004, Science, 628 pages. Most plants rely on the co-existence with microorganisms: both groups benefit from these symbioses. It has been shown that a large number of specific genes in plants and

Abiotic Stresses in Plants , Luigi Sanitè di Toppi, B. Pawlik-Skowronska, Nov 30, 2003, Science, 233 pages. This book provides a valuable insight into how the area of plant adaptation to abiotic stresses has progressed through the application of the new technologies. The book

Pseudomonas Volume 5: A Model System in Biology, , Jul 23, 2007, , 480 pages. Pseudomonas volume 5 is intended to collect new information on the genomics of saprophytic soil Pseudomonas, as well as functions related to genomic islands. Pseudomonas are

Aerial Plant Surface Microbiology , Cindy E. Morris, Philippe C. Nicot, Christophe Nguyen-The, Jan 1, 1996, Science, 307 pages. "Informative, well-constructed, and readable...The contributors are leaders in their fields and what they have to say is worthwhile."--- SGM Quarterly, August 1998.

Prokaryotic Symbionts in Plants , K. Pawlowski, Jun 17, 2009, Science, 314 pages. Endophytic prokaryotes can invade the tissue of the host plant without triggering defense reactions or disease symptoms. Instead, they promote the growth of the host plant due

Advances in Molecular Genetics of Plant-Microbe Interactions, Volume 2 , E.W. Nester, Desh Pal S. Verma, 1993, Science, 636 pages. Section 1: Keynote address; Section 2: Agrobacterium - plant interactions; Section 3: Rhizobium - Plant interactions: Rhizobium side; Section 4: Bacterial - Plant interactions

Associative and Endophytic Nitrogen-fixing Bacteria and Cyanobacterial Associations , Claudine Elmerich, William Edward Newton, May 19, 2007, Science, 342 pages. This book addresses the issues arising from bacterial colonization of either the plant-root surface or other tissues as well as their modes of doing so. These associations are

Molecular Mechanisms of Plant and Microbe Coexistence , Chandra Shekhar Nautiyal, Patrice Dion, Jul 10, 2008, Science, 504 pages. Molecular Mechanisms of Plant and Microbe Coexistence presents studies on the complex and manifold interactions of plants and microbes at the population, genomics and

Microbial Activity in the Rhizosphere , K. G. Mukerji, C. Manoharachary, Jagjit Singh, Mar 22, 2006, Science, 365 pages. The rhizosphere is a very complex environment. This book deals with the basic concepts in rhizosphere biology and the techniques used in these studies. The topics include the

Microbial Endophytes , Charles W. Bacon, James White, Feb 25, 2000, Science, 500 pages. Examining intercellular infections in certain plant species that lead to a symbiotic relationship between the host and its endophytic microbes, this volume demonstrates the

<http://edufb.net/285.pdf>
<http://edufb.net/8251.pdf>
<http://edufb.net/6068.pdf>
<http://edufb.net/143.pdf>
<http://edufb.net/7683.pdf>
<http://edufb.net/4987.pdf>
<http://edufb.net/7439.pdf>
<http://edufb.net/2105.pdf>
<http://edufb.net/7151.pdf>
<http://edufb.net/1979.pdf>
<http://edufb.net/2301.pdf>
<http://edufb.net/2330.pdf>
<http://edufb.net/2776.pdf>
<http://edufb.net/6837.pdf>
<http://edufb.net/4901.pdf>
<http://edufb.net/1016.pdf>
<http://edufb.net/1265.pdf>
<http://edufb.net/4066.pdf>