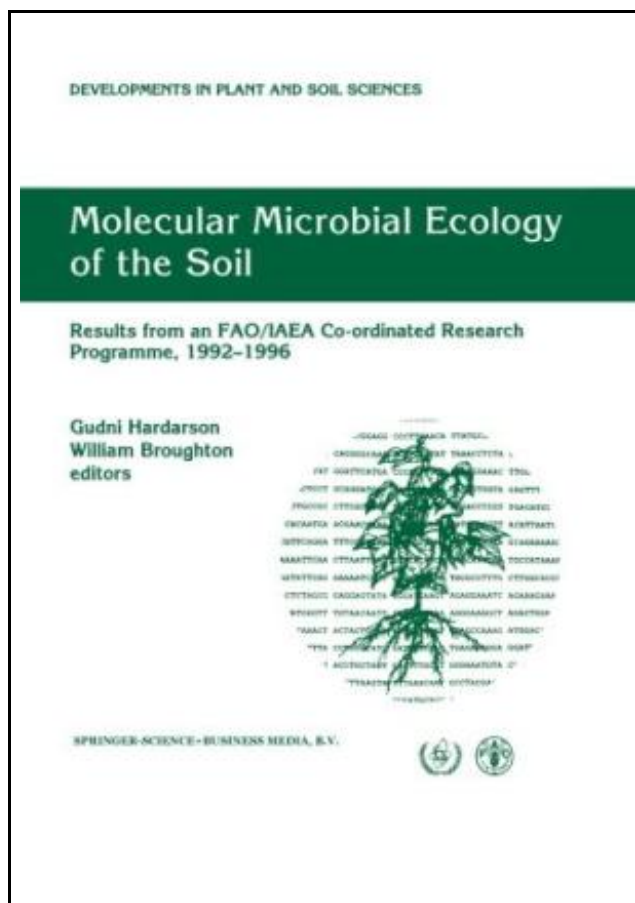


# Molecular Microbial Ecology of the Soil



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**(Mr. Ladarius Stoltenberg)**

## MOLECULAR MICROBIAL ECOLOGY OF THE SOIL



Book Condition: New. Publisher/Verlag: Springer Netherlands | Results from an FAO/IAEA Co-ordinated Research Programme, 1992-1996 | Grain legume crops, e.g. common bean (*Phaseolus vulgaris* L.), and soyabeans (*Glycine max* L.) are amongst the main sources of protein in Africa, Asia and Latin America. Their high protein content derive from their ability, in symbiosis with *Rhizobium* bacteria, to fix atmospheric nitrogen. Incorporating contributions from molecular biologists, microbiologists, plant breeders and soil scientists, this volume reports the results of an FAO/IAEA Co-ordinated Research Programme (1992-1996), whose main objective was to develop molecular biological methods to study rhizobial ecology. Use of better tracking methods will help enhance biological nitrogen fixation and thus grain legume yields, while reducing their reliance on soil- and/or fertilizer-nitrogen. This volume will be invaluable to scientists working on biological nitrogen fixation, soil microbial ecology and legume production. | 1. Role of Legumes in Sustainable Cropping Systems; D.G. Jones. 2. rRNA Based Identification and Detection Systems for Rhizobia and Other Bacteria; W. Ludwig, et al. 3. Rapid Identification of *Rhizobium* Strains by Targeted PCR Fingerprinting; X. Perret, W.J. Broughton. 4. Use of Marker Genes in Competition Studies of *Rhizobium*; A. Sessitsch, et al. 5. Isolation of Unique Nucleic Acid Sequences from Rhizobia by Genomic Substraction: Application in Microbial Ecology and Symbiotic Gene Analysis; J.E. Cooper, et al. 6. Potential of *Rhizobium* and *Bradyrhizobium* as Plant Growth Promoting Rhizobacteria with Non-Legumes: effect on Radishes (*Raphanus sativus* L.); H. Antoun, et al. 7. Competition in Kenyan Soils Between *Rhizobium leguminosarum* biovar *Phaseoli* Strain Kim5 and *R. tropici* Strain CIAT899 Using the *gusA* Marker Gene; B. Anyango, et al. 8. Effect of Host Plant Origin on Nodulin Activities and Nitrogen Fixation in *Phaseolus vulgaris* L.; V.M. Ceccatto, et al. 9. Symbiotic Performance of Some Modified *Rhizobium etli* Strains in Assays with *Phaseolus vulgaris*...



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