



# Molecular Microbial Ecology of the Soil

By Hardarson, Gudni G. / Broughton, William J.

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 soyabean (*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...



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