

recent developments in the actinorhizal symbioses - springer - plant and soil 161:135-145, 1994. q 1994 kluwer academic publishers. printed in the netherlands. recent developments in the actinorhizal symbioses **recent developments in the actinorhizal symbioses** - plant and soil 161: 135-145, 1994. ... usa key words: actinorhizal, frankia, nitrogen fixation, root nodule, symbioses abstract over 200 species of angiosperms in eight different families are capable of forming root nodule symbioses with the actinomycetal genus frankia as endosymbiont. several thorough reviews of the biology of these actinorhizal associations have appeared in recent years ... **frankia symbioses - scionresearch** - higher plant, frankia, and a mycorrhizal fungus in alnus, hippophae, and myrica, and reported elsewhere in ceanothus. this paper should raise interesting questions **frankia and actinorhizal plants - springer** - developments in plant and soil sciences volume 18 i. 1. monteith and c. webb, eds., soil water and nitrogen in mediterranean-type environments. **actinorhizal symbioses: recent advances in plant molecular ...** - recent developments in frankia clas-sification and diversity are reviewed else-where (benson and silvester, 1993; mullin and dobritsa, 1996). although recent phylogenetic studies suggest a single origin for the predisposition to become nodulated with the symbioses originating multiple times within the rosid 1 clade (soltis et al., 1995), legume and actinorhizal nodules differ in development ... **a brief history of frankia and actinorhizal plants meetings** - a brief history of frankia and actinorhizal plants meetings 1. introduction meetings of various scopes exist that address various needs of the scientific community. **rhiz sphere 2 - centre inra de montpellier** - rhiz sphere 2 15 session 2 - symbioses and plant growth promotion international conference montpellier - france 26-31 august 2007 external p availability influences the expression pattern of a p transporter gene in ectomycorrhizal mycelium **molecular ecology of frankia ...** - 50 akkermans et al. ment of an optimal actinorhizal plant-frankia symbiosis, reliable isolation and/or sensitive de- tection and identification methods have to be **ch2opo3 non- coo fixation leguminous cooh plants** - symbioses some bacteria fix nitrogen in the free-living state and others only when living in a symbiotic relationship with a plant. dissimilar organisms which live together in a mutually beneficial relationship are said to be in sym- biosis. the smaller member is the symbiont. legumes such as soybeans, peas, and alfalfa are well-known plants which enter into nitrogen-fix- ing symbioses when ... **university of groningen ineffective frankia in wet alder ...** - 129 references abeysekera r. m., newcomb w., silvester w. b. and torrey j. g. (1989) a freeze-fracture electron microscopic study of frankia in root nodules of alnus incana grown at three oxygen tensions. **fundamental, ecological and agricultural aspects of ...** - developments in plant and soil sciences i. j. monteith and c. webb. eds. .Ã¢Â€Â¢ soil water and nitrogen in mediterranean-type environments. 1981. **book reviews - scion** - workshop on frankia symbioses, held in noordwijkerhout and wageningen, the netherlands, in september 1983. most of the work on actinorhizas (non-leguminous nitrogen-fixing symbioses) has **ecology of hippophae salicifolia d. don of temperate and ...** - ecological and economic developments in the mountain areas of north sikkim. the plant is found naturally at altitudes ranging from 2,377 to 3,093 m. in riverine (river side or torrential side) and non-riverine (non river or non torrential side) areas where geo-physico-chemical parame-ters like aerial temperature, aerial moisture, soil ph, soil temperature, and soil moisture varied ...

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