

Interaction between the biogeochemical cycles of C, N and P in the rhizosphere of nodulated legumes (bean model) in reference agro-ecosystems of the Mediterranean basin

PERSPECTIVES

To test the MOMOS model for the common bean (*Phaseolus vulgaris*) in the spatial variability of bean nodulation in the Sétif agro-ecosystem where 6 contrasting sites have been identified ; Isolate rhizobia and rhizobacteria from nodulated roots of legumes in identified sites with high nodulation and low differences between contrasting genotypes in order to verify in controlled environment whether these bacteria could contribute to compensate the low efficiency of the host to use P for nitrogen fixation. The finalized objective would be the selection of legume – bacteria associations with potential to fix nitrogen with limited P supplies.

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