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| <u>TITLE</u> | Host- and bacterial-factors relevant for the interaction of Rhizobiales with eukaryotic hosts (EoI-TSP3-01). |
| <u>RESEARCHER PROFILE</u> | Postdoctoral: First Stage Researcher (R1) or Recognised Researcher (R2) |
| <u>TYPE OF CONTRACT</u> | Temporary contract of 1 year |
| <u>IP</u> | José Manuel Palacios Alberti |
| <u>GROUP INFORMATION</u> | http://www.cbgp.upm.es/index.php/es/informacion-cientifica/interaccion-de-las-plantas-con-el-medio-ipm/interactions-symb |
| <u>OFFER DETAILS</u> | The project aims at the definition of new rhizobial and legume traits involved in adaptation to specific hosts. A combination of physiological, transcriptomic and proteomic analyses are designed to identify host-specific bacterial and plant factors involved in the fine-tuning of the symbiotic interaction. The use of a wide germplasm collection of legume accessions will pinpoint the relevance of the diversity of host environment in the Rhizobium legume symbiosis. The results will be of interest to gain further understanding of the Rhizobium-legume symbiosis and might be of application for the obtention of improved inoculants for legume crops. See also: http://www.cbgp.upm.es/index.php/en/scientific-information/interactions-of-plants-with-environment-ipm/interactions-symb |
| <u>MAIN RESPONSABILITIES</u> | Physiological analyses of symbiotic performance of different Rhizobium/legume combinations. Transcriptomic and proteomic characterizations of plant and bacterial partners. Generation and analysis of bacterial mutants. Management of plants under bacteriologically controlled conditions. |
| <u>SPECIFIC OFFER REQUIREMENTS</u> | Applications should include a detailed CV, two letters of recommendation, and a motivation letter. |
| <u>REQUIRED QUALIFICATIONS</u> | A PhD on Biology, Biotechnology or Biochemistry. Fluent communication in English and or Spanish. Good microbiological skills. Experience on the analysis of plant-bacteria interactions will be appreciated. |
| <u>ELIGIBILITY CRITERIA</u> | Experience and technical skills related to the focus of the project. |