



**Simposio Internacional:** Microorganismos beneficiosos para la agricultura y la protección de la biosfera

**International Symposium:** Beneficial Microbes for Agriculture and Biosphere Protection

Madrid, 20 y 21 de mayo de 2013

Madrid, May 20-21, 2013

**CV**

## Luis M. Rubio



Associate Professor

Center for Plant Biotechnology and Genomics

Technical University of Madrid

### Research Interests

- 1) Nitrogenase biosynthesis
- 2) Generation of nitrogen fixing cereals
- 3) Hydrogen production by nitrogenase

### Honors

2008 European Research Council Starting Grant

### Major Achievements

Luis is a world leader in the study of nitrogenase biosynthesis. His laboratory achieved the purification of all proteins required for the assembly of the molybdenum nitrogenase and used a multidisciplinary collaborative approach to study them. They achieved the complete synthesis of nitrogenase FeMo-cofactor *in vitro* from its basic constituents using a system containing only a few purified proteins. In addition, they found new FeMo-cofactor biosynthetic intermediates and a new role for [Fe-S] clusters in biology in the sequestration and trafficking of other metals. Luis is principal investigator of the Bill & Melinda Gates Foundation NFIX project, which long-term goal is the developmen