UNIVERSIDAD DE GRANADA

Máster Universitario en Biotecnología

Oferta 1 contrato predoctoral (4 años) en la EEZ-CSIC

Desde el Mié, 16/10/2024 - 10:10 hasta el Mié, 16/10/2024 - 10:10

Oferta 1 contrato predoctoral. EEZ-CSIC

1 Postdoctoral (2 years) & 1 Ph.D. (4 years)open positions
ASSOCIATED TO THE PROJECT: “AUXINSIGNALLING IN BENEFICIAL AND PATHOGENICPLANT-ASSOCIATED BACTERIA” (PID2023-146281NB-I00).
LOCATION: Environmental Microbiology &Biotechnology group (https://www.eez.csic.es/microbiologia-ambiental-y-biotecnologia) - Estación Experimental del Zaidín (Granada, Spain).
PROJECT SUMMARY: The plant microbiome is key to plant growth and health. The interaction between plants and microorganisms involves a complex network of signal molecules (SMs). Among these, the auxin indole-3-acetic acid (IAA) - a phytohormone essential for plant growth and development - is emerging as an important SM in plant-bacteria communication. Indeed, a growing body ofresearch indicate that IAA acts as a SM in bacteria regulating relevant processesduring the interaction with plants. However, the mechanisms through which IAAmodulates these processes remain largely unknown. To advance this knowledge,a postdoctoral (2 years) and a Ph.D. (4 years) positions are offered to focus on the molecular mechanisms of IAA recognition in different phytopathogenic and plant growth-promoting bacteria, as well as on the study of the processes controlled by IAA in these microorganisms.
Achieving these objectives will involve multidisciplinary in vivo, in vitro and in silico approaches, including microbiology, plant-bacteria interaction, molecular biology, transcriptomics, proteomics, high-throughput ligand screening, microcalorimetry, bioinformatics and crystallography. The results will have future implications for the development of new strategies for plant growth promotion and biocontrol of plant pathogens.

PROFESSIONAL PROFILE:
Ph.D. applicant minimum requirements:
• University degree of at least 300 ECTS credits or university master's degree in Biology, Biochemistry, Biotechnology, or related degrees.
• Do not hold a doctorate degree.
Valuable merits:
• Academic record and scientific-technical contributions.
• Strong background in microbiology and molecular biology.
• Mobility and internationalisation.
• High level of English (spoken and written).

See instructions in the attached file.

ADJUNTO	TAMAÑO

Pre-and-postdoctoral-contracts-EEZ-Granada.pdf	888.92 KB