

## POSTDOCTORAL POSITION OFFER FORM

1. **Job Position title:** postdoctoral researcher bioinformatics
2. **Keywords:** genetics, bioinformatics, molecular evolution, programming

**3. Researcher in charge in DAUCO:**

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**4. Research Group description (max. 2.000 characters)**

The UCOLIVO group, included in the Department of Agronomy of the University of Cordoba (UCO) – Maria de Maeztu excellence unit, has been pioneer in the characterization of olive genetic resources and olive breeding. The UCOLIVO group is currently in charge of two important facilities related to olive genetic resources: the World Olive Germplasm Bank collection located at the Campus of Rabanales-UCO and the Isolated Repository of Olive Cultivars, which provides the nursery industry with healthy and true to type base material for the propagation of olive cultivars. These two collections currently preserve more than 500 olive cultivars worldwide and both are the foundation for several research projects carried out by national and international groups. Since 1991 the UCOLIVO group leads the olive breeding for obtaining new olive cultivars adapted to the requirements of new superhigh density growing systems. Three cultivars belonging to the set 'Sikitita' have been already released in the European Union and other countries. New breeding lines have been also set up with private funding for obtaining new olive cultivars resistant to Verticillium wilt, the most threatening disease for the Spanish olive groves. Recently, in the frame of the European grant LIFE-Resilience, the UCOLIVO group is charge of breeding new olive cultivars resistant to *Xylella fastidiosa*. In addition, the UCOLIVO group is currently coordinating the European grant Gen4Olive (H2020-SFS-2020-1) devoted to the phenotypic and genetic characterization of olive cultivars with the aim of paving the way for breeding the cultivars of the future, adapted to climate change and able to resist the main pest and diseases. The UCOLIVO group currently provides a burgeoning and international environment for students and researchers, which is supported by the experience of publishing more than 150 research articles in SCI journals, leading 36 public grants and participating in more than 50 projects with private companies and producer associations focused on olive growing and conservation of olive genetic resources.

**5. Job position description (max. 2.000 characters)**

We are looking for a highly motivated person for a project in population and comparative genomics on the olive tree (*Olea europaea*). The project is run within the European grant Gen4Olive as a collaboration between the Agronomy department of the University of Cordoba, Spain, and other international partners. The work tasks mainly consist of data analysis and will be carried out in collaboration with other members of the research group.

**Qualifications:**

Applicants must:

- Have a doctorate degree in genetics, genomics, bioinformatics or related fields that the employer considers equivalent and experience in performing population genomic analyses.
- Have good programming skills (Phyton, Perl,..etc)
- Have excellent knowledge of English in both spoken and written form
- Must have a good ability to conduct independent research, take initiative, ask pertinent scientific questions, collaborate and communicate with other people.

**Merits:**

Creativity and motivation are important personal characteristics. The applicant should have a genuine interest in working with issues related to population genomics and genomics and quantitative genetics (GWAS). Documented expertise in bioinformatics and experimental design related to the handling of large genomic datasets is a merit.