

Position Offered: POSTDOCTORAL RESEARCHER

Project: *Analysis and integration of massive sequencing and imaging data for the study of gene expression in eukaryotes.*

Technological and scientific fields: Computational Biology, Image Analysis and Computer Vision, Data Analysis and Integration, Artificial Intelligence, High-Performance Computing

Location: Valencia, Valencian Community, IBV <https://www.ibv.csic.es>

Research Group/PI: Gene Expression and RNA metabolism, Susana Rodríguez Navarro

PROJECT SUMMARY

The study of gene expression regulation has advanced significantly thanks to the massive acquisition of multiomic data. This progress relies on new methods and specialized software, posing a challenge for the training of scientists with digital skills. In functional studies, these data are combined with advanced microscopy techniques. Automating the analysis and integration of omic and microscopy data requires learning new techniques combined with artificial intelligence and high-performance computing. The project will develop a specialized profile in the integration of multiomic data and advanced microscopy analysis to further the understanding of gene expression.

PROFESSIONAL PROFILE

Minimum requirements:

PhD in Biotechnology. Bachelor's Degree in Biochemistry and Biomedical Sciences. Basic knowledge of programming in R and multi-omic data integration.

Merits to be considered:

PhD with international mention and cum laude - Bachelor's Degree in Biochemistry and Biomedical Sciences-Master's Degree in Biomedical Biotechnology - Experience in molecular biology laboratories and with microorganisms - Basic knowledge of programming in R and multi-omic data integration - Proficiency in molecular biology techniques in yeast and confocal microscope handling - Knowledge of statistics applied to biology

WHAT IS OFFERED

The project will train in digital skills for the integration of omic data and image analysis, increasing the researcher's competitiveness and innovation. The group has experience in obtaining and analyzing omic data and collaborates with international leaders. Training stays will be conducted for both data integration and image analysis through the integration of Arivis with artificial intelligence and high-performance computing. The IBV has the infrastructure and resources to support this learning. Additionally, the hired person will complete a total of 240 ECTS through stays, courses in multiomic integration, statistics, continuous training in digital skills, and training in ARIVIS software.

Contract conditions:

Indefinite contract for a Postdoctoral Researcher associated to the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (41.000 € - 52.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

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Financiado por
la Unión Europea
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