



Junior Scientist in Metabolomics

A 36-month position is available for an independent and highly motivated individual to work as a Junior Scientist in Fundación MEDINA's Screening Department. This position is part of a research project funded by the Ministry of Science and Innovation called "Molecular signature in liquid biopsy for radiotherapy and early rising in prostate cancer response".

SUMMARY OF THE POSITION

TITLE OF THE POSITION: Junior Scientist.

To work on projects involving metabolomics based on mass spectrometry.

PRINCIPAL DUTIES:

- Carry out research on the LC-MS metabolomics applied to human pathologies.
- Perform metabolite analysis on biofluid and tissue samples using high resolution LC-MS, including sample preparation, data acquisition, and data processing with commercial and public software.
- Design, develop and refine experimental protocols to discriminate different physiopathological conditions.
- Handle, maintain and troubleshoot with LC-MS and auxiliary instruments.
- Present regular progress reports on the research to the members of the research group or to external audiences, to disseminate and publicize the results of the research.
- Prepare, often in consultation with the supervisor, material for publication in national and international journals and presentations at international conferences.
- Perform routine administrative tasks related to the research project to ensure that the project is completed on time.
- Keep up to date on the latest development in metabolomics and related areas through academic papers, journals and textbooks.



REQUIRED SKILLS:

1. An engineering degree in a relevant life science subject (e.g., biology, biochemistry, biomedical sciences).
2. A minimum of 3 years of experience in the use and maintenance of LC-MS configurations.
3. An understanding of the issues involved in LC-MS analysis of small molecule metabolites.
4. Ability to develop and optimize chromatography methods for a range of metabolites/tissues, whether specific or non-specific analyses.
5. Ability to work with a range of biological specimens.
6. Some knowledge of multivariate statistical software packages.
7. Ability to write papers and present results.
8. Dedicated to the realization of a project.
9. Ability to multi-task and prioritize work.
10. Ability to work smoothly as part of a diverse and multidisciplinary team (scientists and physicians).
11. Willingness to teach others in the laboratory or research institute.

ADDITIONAL SKILLS:

1. Experience in metabolomics research.
2. Practical experience in the application of LC-MS (Q-TOF) to untargeted and targeted small molecule metabolite analysis (Sciex 5600 and Sciex API 4000).
3. Practical experience in the use of chemical/metabolomic databases to identify unknown metabolites.
4. Practical experience with multivariate statistical software packages.

To apply, sent your CV and a cover letter to Dr. José Pérez del Palacio and Dra. Francisca Vicente to follow email: retos.metabolomics2020@medinaandalucia.es

For further information visit: <https://www.medinadiscovery.com/>