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Biomarkers and Nutritional & Food Metabolomics
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The **Biomarkers and Nutritional & Food Metabolomics research group** is seeking a highly motivated postdoctoral candidate with a PhD in Chemistry, Data Science, Nutrition, Biology or related, to be supported for the Spanish Competitive Fellowships for Postdoctoral Scientist

Juan de la Cierva call :<https://www.aei.gob.es/en/announcements/announcements-finder/ayudas-contratos-juan-cierva-formacion-2021> and

& **Ramon & Cajal Call**: <https://www.aei.gob.es/en/announcements/announcements-finder/ayudas-contratos-ramon-cajal-ryc-2021>

The selected candidate will make a significant contribution to research activity within the group, building on our research success in the ongoing European Projects (information below), and integrating with our main research strength, biomarkers, and nutritional metabolomics. Preference will be given to highly motivated candidates with experience in liquid chromatography mass spectrometry, nutrition, bioinformatics, metabolomics, or statistics with recognized track record in impact research. Application of the DORA criteria. <https://sfdora.org/read/read-the-declaration-espanol/>

1 Principal Duties and Responsibilities

- To maintain and further build an international reputation as an outstanding researcher in nutrition/metabolomics/statistics through publication of high quality papers
- To carry out the tasks of the European projects of the group, including targeted or untargeted metabolomics studies
- Gather and disseminate scientific results in a way that is adapted to different stakeholders
- To be responsible for the treatment and interpretation of metabolomics data.
- Attracting external funding at a level commensurate with appointment;
- Another important aspect involves collaboration within academia and with society at large. The position is meritorious for future research duties within academia as well as industry/the public sector.

2 Requirements

Education, Experience & Achievements

- PhD degree in chemistry, biochemistry, data science, nutrition, or related disciplines.
- A track record of research in metabolomics, nutrition, and statistics.
- Experience in the analysis of clinical/human studies using LC-MS.
- Excellent understanding of statistical tools for analyzing metabolomics data.
- Experience or research interest in an area of nutritional biomarkers and metabolomics.
- High motivation and the ability to be involved in an international multidisciplinary team.
- Excellent written and verbal skills.
- Proactive and excellent interpersonal skills.
- The competitiveness of the candidates will be evaluated based on the information included in the CV in respect with the selection DORA criteria (research impact, open access publications, public datasets, publication track, leadership in publication, international background, research leadership, author contribution).

Skills & Knowledge

- Research interests that complement current research focus.
- Communicate conceptual and complex ideas to a variety of audiences.
- Demonstrable communication skills in English language.
- Successful grant writing ability, commensurate with experience.



Desirable criteria:

- Experience in statistical analysis of complex datasets.
- Experience of human intervention trials.
- Ability to liaise with the industry for research support.
- Ability to engage and build cross-disciplinary research.

Personal Attributes

- Active research agenda in biomarkers/metabolomics approaches.
- Enthusiasm to teach biochemistry and/or nutrition to graduate and postgraduate students and further enhance the curriculum.
- Excellent written and verbal skills.
- Excellent interpersonal skills.
- Enthusiastic, self-motivated.
- Ability to work well in a team.

3 The research group

The BIOMARKERS AND NUTRITIONAL & FOOD METABOLOMICS research group (<http://www.nutrimetabolomics.com>  [nutrimetabolomics](#);  [@NutriMetabolom](#)) with Quality Certification (2017SGR1566) is led by Dr. Cristina Andres-Lacueva ([ORCID: 0000-0002-8494-4978](https://orcid.org/0000-0002-8494-4978)) and belongs to Department of Nutrition, Food Sciences and Gastronomy from the University of Barcelona, is part of the Food Innovation Network (XIA), the Institute of Research in Food Nutrition and Safety ([INSA](#)) and the CIBER of Fragility and Healthy Ageing (CIBERFES) <https://www.ciberfes.es/grupos/grupo-de-investigacion?id=22457>. The group actively participates in European projects H2020, EIT-Health, and [EU-Joint Programming Initiative a Healthy Diet for a Healthy Life \(JPI HDHL\)](#). Our activity is aimed to different purposes: i) the understanding of qualitative and quantitative links between diet, nutritional phenotype, and risk factors for diet-related chronic diseases; and ii) the discovery of predictive biomarkers that characterize the trajectory from health to disease in the context of dietary intake and phenotypic changes.

Selection of active projects of the group (2020-2025):

1. FOOD4BRAIN_ MINECO2020. Study of Dietary Pattern-based Metabotypes associated to Brain Health.
2. EU JPI HDHL-METADIS Tailored Carbohydrate Quality for Personalized Weight Management and Metabolic Health [Carb-Q-4-Health](#)
3. [MARATON TV3](#). Food bioactive compounds and prostate cancer risk in the European Prospective Investigation into Cancer and Nutrition (EPIC) study. Scientific bases for future dietary recommendations.
4. EU JPI HDHL-INTIMIC. Diet and microbiome based metabotypes for the determination of cardiometabolic risk and adapt intervention strategies for health improvement ([DiGuMet](#))
5. EU JPI HDHL- Nutrition and Cognitive Function Identification of dietary modulators of cognitive ageing and brain plasticity and proof of concept of efficacy for preventing/reversing cognitive decline ([D-CogPlast](#))
6. [ICREA Academia](#) 2018 Award

4. How to apply

Interested applicants should send their CV and cover letter to **nutrimetabolomics.ub@gmail.com**, with the reference code "Name"_postdoc_2022. All data will be treated confidentially.

Successful shortlisted candidates may be notified of their interview times by telephone and/or e-mail and it is therefore essential you include both in your application.