Seu Reus:
Hospital Universitari Sant Joan de Reus
Avda. Josep Laporte, 2
Planta 0 - E2 color taronja
43204 (Tarragona)

Seu Tarragona:
Parc Sanitari Joan XXIII
C/ Doctor Mallafrè, 4
Edifici IRBCatSud
43005 (Tarragona)

IRB CatSud Institut de Recerca Biomèdica Catalunya Sud

MSCA-PF: Expression of Interest

1. European Postdoctoral Fellowships

Purpose

- Support excellent researchers of **any nationality** who want to conduct research in Europe or move within Europe.
- Enhance scientific excellence, mobility, and acquisition of new skills through advanced training.
- Improve talent and facilitate knowledge transfer across Europe.

Mobility & Eligibility

- Supported fellows must be **postdoctoral researchers** at the date of the call deadline.
- At the call deadline, researchers must have a **maximum of 8 years** full-time equivalent experience in research, measured from the date of award of the doctoral degree.
- Researchers must comply with the **mobility rule**: they must not have lived or worked in the host country for more than 12 months in the last 36 months before the call deadline.
- Researchers can be of **any nationality.**

Duration

- 12 to 24 months hosted in an EU Member State or Horizon Europe Associated Country.
- An **additional period of up to six months at the end of the project** can be awarded to researchers who will spend that period in a non-academic organisation established in an EU Member State or Horizon Europe Associated Country.

Impact for Fellows

- Improved research and transferable skills.
- International, inter-sectorial and interdisciplinary experience
- Stronger employability inside and outside academia.
- Broader networks and enhanced communication skills.

Allowance

There are two types of contributions:

a) Contributions for the recruited researcher (per person-month)
- **Living allowance: 6350€** (minus all compulsory deductions under national legislation).
- **Mobility allowance**: **710€**. This allowance covers their additional, private mobility-related costs (e.g. travel and accommodation costs).
- **Family allowance**: **660€**. If the postdoctoral researcher has or acquires family obligations during the action duration
- **Long-term leave allowance: 7060€ * % covered by the beneficiary**. This allowance contributes to the personnel costs incurred by the beneficiary in case of the researcher's leave, including maternity, paternity, parental, sick or special leave, longer than 30 consecutive days.
- **Special needs allowance: Requested unit * (1/number of months).** This allowance contributes to the additional costs for the acquisition of special needs items and services for researchers with disabilities

b) Institutional unit contribution (per person-month)
- **Research, training and networking contribution: 1000€**. This should cover, for example, costs for training and networking activities that contribute directly to the researchers' career development.

A country correction coefficient (CCC) applies to the living allowance to ensure equal treatment and purchasing power parity for all researchers. For Spain, the CCC is **94.2%.**

For more information, you can access the full work programme here.

2. Brief description of IRB CatSud

The Institut de Recerca Biomèdica Catalunya sud (IRB CatSud) is an institution that integrates research in the field of biomedicine in the Camp de Tarragona and the Terres de l'Ebre. IRB CatSud is the instrument that the university hospitals of both health regions have been endowed with (Joan XXIII University Hospital of Tarragona, Verge de la Cinta Hospital of Tortosa, Sant Joan de Reus University Hospital, Institut Pere Mata University Hospital of Reus) and Rovira and Virgili University, in order to bring together and manage biomedical research and innovation in the territory.

The research we lead aims to answer relevant questions related to the health of the population through the scientific method, the most advanced technology and the talent of the people who work in our teams. We listen to patients, we look for strategies to develop our projects, we seek financing to carry them out and, finally, we transfer the results achieved to society by promoting spin-offs or medical devices that we patent.

IRB CatSud and the research groups that belong to it have enormous international prestige. We are part of the CERCA institution (Institution of Research Centers of Catalonia Foundation (I-CERCA) of Catalonia).

For more information about out Institute, visit the following website: https://www.iispv.cat/en/

3. Short presentation about the group and research lines

Metabolomics Interdisciplinary Lab (MIL@b)

The group's scientific agenda is structured around three main pillars:

(i) developing state-of-the-art technologies to transform metabolomics into a functional genomics tool
(ii) applying these technologies to advance mechanistic discovery in cardiovascular disease
(iii) implementing them in precision cardiometabolic health.

For the Marie Skłodowska Curie Postdoctoral Fellow – Call 2026, we are seeking candidates to work in any of the following specific research lines:

1. Apply machine learning and deep learning for metabolite annotation and expand MS/MS databases with in silico–generated spectra.
2. Develop advanced pipelines for spatially resolved metabolomics, including MALDI and DESI-MS-based image co-registration.
3. Integrate metabolomics into multi-omics frameworks.
4. Develop cloud-based bioinformatics tools to broaden accessibility.

More information: https://www.iispv.cat/en/grup/metabolomics-interdisciplinary-lab/

Candidate profile

We are seeking a highly motivated and independent postdoctoral researcher with a strong interest in advancing metabolomics through innovative analytical and computational

approaches. The ideal candidate will have a solid background in mass spectrometry–based metabolomics, computational biology, bioinformatics, analytical chemistry, or a closely related field, and a demonstrated ability to work at the interface of experimental and data-driven research.

Experience with LC–MS/MS or MS-based technologies, including data processing and interpretation of metabolomics datasets, is highly desirable.

For computationally oriented projects, proficiency in programming languages such as Python or R, familiarity with machine learning or deep learning frameworks, and experience handling large-scale omics datasets will be considered strong assets. Experience with multi-omics integration, spatial omics data analysis, or cloud-based computational environments is also advantageous.

Excellent written and oral communication skills in English are required.

In line with the Marie Skłodowska-Curie Postdoctoral Fellowships, candidates must comply with the program's mobility rule and eligibility criteria. Researchers with a strong publication record, experience in open science practices, and an interest in developing independent research directions within the group are particularly encouraged to apply.

Supervisor profile

Dr. Oscar Yanes earned his Ph.D. in Biochemistry from the Universitat Autonoma de Barcelona (Spain) in 2006. Following this, he joined Gary Siuzdak's lab at the Scripps Research Institute (La Jolla, California) as a Research Associate in 2007.

Since 2011, Dr. Yanes has served as the Scientific Coordinator of the Metabolomics Platform at CIBERdem (Instituto de Salud Carlos III), IISPV, and Universitat Rovira i Virgili (URV). Concurrently, he holds the position of Associate Professor in the Department of Electronic Engineering at URV, where he co-leads the MIL@b group (https://milab.recerca.urv.cat/en/). Additionally, he is an affiliated member of the IRB Barcelona.

With almost 20 years of experience, Dr. Yanes has overseen numerous metabolomic projects, bridging the gap between experimental and computational work for biomedical applications. His expertise lies in the development of novel technologies, analytical methods, computational tools, and applications in LC-MS/MS, GC-MS, and spatial metabolomics.

Furthermore, Dr. Yanes holds significant leadership roles in the field, serving as the President of the Spanish Metabolomics Society (SESMet) and the Coordinator of the Spanish Metabolomics Network (MetaboRed).

If you are interested in this opportunity, send your expression of interest to **upi@irbcatsud.cat**, indicating the MSCA-PF + research group in the subject.