

## POSTDOCTORAL POSITION (REF: 2018/107)

### Research Description

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The team of Marcus Buschbeck at the Josep Carreras Leukaemia Research Institute is looking for motivated postdoctoral researchers that are interested in the intersection between nuclear organization and metabolism or leukemia epigenetics.

Two projects are available:

- ▶ **Metabolic plasticity through histone variants.**  
MacroH2A histone variants are unique in having domains binding metabolites (Posavec Marjanovic, Hurtado-Bagès et al., 2017, NSMB) and regulating 3D chromatin architecture (Kozłowski, Corujo et al., 2018, EMBO Rep, Douet et al., 2017, JCS). We want to test the intriguing speculation that macroH2A histone variants convey metabolic sensitivity to 3D chromatin architecture and thereby link epigenetic plasticity to the metabolic state.
  
- ▶ **Epigenetic alterations of the bone marrow stroma and their role in leukemia.**  
The cells of the bone marrow stroma provide the niche for hematopoietic stem and progenitor cells. Alterations in the niche contribute to diseases including acute and chronic forms of leukemia and myelodysplastic syndromes (MDS). The fact that no recurrent somatic mutations have been found in the stroma argues that disease-associated alterations are of epigenetic nature. We plan to characterize these epigenetic alterations occurring in the bone marrow stroma focusing on MDS and to functionally evaluate chromatin regulators as potential epigenetic drug targets.

We are open to discuss additional ideas and projects.

### Main Responsibilities

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- ▶ You will develop your own research project but also tightly collaborate with a PhD student and other lab members. You will write fellowship applications and manuscripts together with the PI.

### Requirements

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- ▶ A high level of motivation and interest.
- ▶ Experience in chromatin biology and/or leukemia.
- ▶ Competitive CV with a track record of publications.
- ▶ High level of collaborative and communicative skills.
- ▶ Good level of English speaking and writing skills (required). Spanish (helpful).
- ▶ International mobility and eligibility for European funding schemes such as MSCA will be considered a major plus.

## What we offer

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- ▶ Incorporation in a multinational and highly collaborative team.
- ▶ An exciting and innovative research project.
- ▶ Working in the mixed basic and clinical research environment of the Josep Carreras Leukaemia Research Institute.
- ▶ The international network of the Buschbeck lab.
- ▶ The stimulating environment of the Barcelona metropolitan area.
- ▶ Contract details will be negotiated and take into account the track record of the candidate.
- ▶ Flexible start date.

## For more information:

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Please also visit our group webpage:

[http://www.carrerasresearch.org/en/Chromatin\\_Metabolism\\_and\\_Cell\\_Fate](http://www.carrerasresearch.org/en/Chromatin_Metabolism_and_Cell_Fate)

## How to apply:

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Interested applicants should send their CV (incl. the contact details of three referees) and a motivation letter to: [rrhh@carrerasresearch.org](mailto:rrhh@carrerasresearch.org) and [mbuschbeck@carrerasresearch.org](mailto:mbuschbeck@carrerasresearch.org)

**Deadline for applications:** October 15, 2018.

### Josep Carreras Leukaemia Research Institute (IJC)

The mission of the IJC is to carry out research into the basic, epidemiological, preventive, clinical and translational aspects of leukemia and other hematologic malignancies.

The laboratories of the institute are on three campuses: the ICO-Germans Trias Campus on the Can Ruti Campus in Badalona; the Clinic-UB Campus in the University of Barcelona Faculty of Medicine on the Hospital Clinic campus in Barcelona and in the future on the Sant Pau Hospital Campus in Barcelona.

The legal address of the IJC is Muntaner 383, 3rd 2nd / 08021 Barcelona but CHECK which campus this job is located on.

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The IJC is an equal opportunities employer