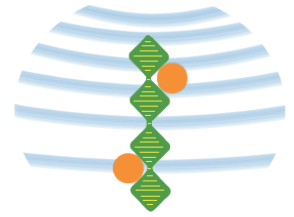


Postdoctoral Position in Molecular Biophysics

DNA-RNA-protein interactions Involved in DNA repair and cancer



The Moreno-Herrero Lab

The Moreno-Herrero Lab at the **National Center of Biotechnology (CNB-CSIC)** in Madrid invites applications for a **postdoctoral position** funded by a *CaixaResearchHealth Call 2024 project*. This exciting opportunity is focused on investigating the mechanics and the role of long non-coding RNAs (lncRNAs) in modulating DNA repair and is available for a duration of **2 years**.

Project Overview

The project aims to uncover how lncRNAs regulate DNA repair processes in hepatocellular carcinoma, employing a multidisciplinary approach that includes cancer cell biology, cryo-electron microscopy (cryo-EM), and **single-molecule biophysics**.

At the Moreno-Herrero Lab, you will develop **novel single-molecule methodologies** based on **TIRF microscopy**. These tools will be used to characterize the structure of lncRNAs and to study DNA-RNA-protein interactions at the single-molecule level, focusing on DNA repair by **non-homologous end joining (NHEJ)**.

Your Profile

We are seeking a highly motivated candidate with:

- A **PhD in experimental biophysics**, preferably with expertise in **optics, instrumentation development and single-molecule techniques**.
- A competitive **track record** and strong **CV**.
- A strong interest in scientific research.
- Proficiency in **English** and excellent **social skills** to work effectively within a multidisciplinary team.

Application Requirements

Interested candidates should send the following to fernando.moreno@cnb.csic.es :

- **Curriculum Vitae**
- Contact information for **two references**

Applications will be reviewed on a rolling basis until the position is filled.

Prof. Fernando Moreno-Herrero

Molecular Biophysics of DNA repair nanomachines
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