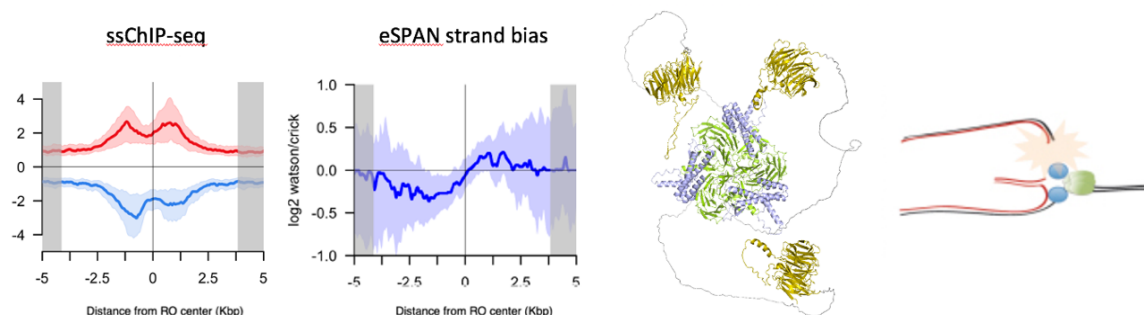


PhD position at the DNA Replication and Genome Integrity laboratory

Rodrigo Bermejo's group at the Margarita Salas Centre for Biological Research (CIB-CSIC) in Madrid focuses on understanding the Functional Architecture of Replication Fork Protection mechanisms. DNA replication is a fascinating process, essential for life and organismal development, but takes place at fragile structures (replication forks) and has to negotiate hard-to-replicate sites, prone to break down and give rise to mutations and chromosomal abnormalities, driving cancer onset. In order to understand how key replisome factors coordinate replication with other key chromosomal processes to protect challenged forks, we employ a multidisciplinary approach combining strand-specific genomics, molecular genetics and AI-based protein interaction prediction in the budding yeast model.



The group is searching for a highly motivated and creative researcher interested in carrying out a PhD research project, focused on understanding replisome molecular dynamics sensing replication stress, in a competitive international environment. A 4-year contract is offered to top candidates, ideally with a background in genetics, molecular biology, genomics and/or bioinformatics. Approximate start date is early spring 2025

You may informally contact Dr Rodrigo Bermejo (rodrigo.bermejo@cscic.es), by sending a CV and motivation letter at your earliest convenience.

Relevant Publications:

- Cañas et al. *bioRxiv* 2024
- Pellicanó et al. *Mol Cell* 2021
- Álvarez et al. *Cell Rep* 2019
- Frattini et al. *Mol Cell* 2017
- Ferrari et al. *Mol Cell* 2017
- Colosio et al. *NAR* 2016
- Jossen et al. *Front Genetics* 2013