



**DOCTORAL THESIS in the laboratory of  
INTRACELLULAR BACTERIAL PATHOGENS**



Our laboratory seeks a candidate to perform a DOCTORAL THESIS under the call:

**"Contratos de formación de personal investigador  
ofertados por la Comunidad de Madrid" (to be published shortly)**

<https://www.bocm.es/boletin/CM Orden BOCM/2022/07/29/BOCM-20220729-14.PDF>

To study

**"The evolution of the bacterial cell wall:  
a study designed in the uncultivated microbiome"**

**Lab website:**

<https://www.cnb.csic.es/index.php/en/research/research-departments/microbial-biotechnology/laboratory-of-intracellular-bacterial-pathogens>

**Publications (source PUBMED):**

<https://www.ncbi.nlm.nih.gov/pubmed/?term=garcia-del+portillo>

**Qualification and experience expected for candidates:**

- Master studies in current 2022-2023 course.
- Academic record with average  $\geq 8.5$ .
- Highly motivated to identify evolutionary clues of how proteins involved in cell wall metabolism have fixed differentially in pathogens as *Salmonella* and in ancestral bacteria.
- Organization and communication skills. Scientific writing abilities

**We offer:**

- **Doctorate with European mention** meaning a minimum of 3 months in institutions abroad.
- An enthusiastic team determined to unravel how certain bacterial pathogens have evolved to survive and proliferate within eukaryotic cells.
- The laboratory of Intracellular Bacterial Pathogens is in the National Center of Biotechnology (CNB), which provides a dynamic research environment with internationally recognized expertise in Life Sciences: <https://www.cnb.csic.es/index.php/en/>
- Collaborations at the European level with leader groups located in the Institute Pasteur (Paris, France), University of Osnabrück (Germany) and University of Umea (Sweden).
- Collaborations in the Iberoamerican area with groups involved in *Salmonella* research (México, Argentina, Uruguay, Perú and Bolivia).
- Training in molecular biology, cell biology, microbial genetics, work with infectious agents and bioinformatics.

Candidates should send **CV, academic record, and motivation letter**

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DEADLINE FOR APPLICATIONS: **January 13, 2023**