



## PhD position –Systems Biology of Infection LAB

### Overview

We are offering an exciting PhD opportunity in the fields of biochemistry and microbiology at our innovative research laboratory. Our work focuses on exploring the molecular mechanisms of bacterial infections and the development of novel antimicrobial strategies. We use advanced methods, including dual RNA sequencing, high-throughput compound screening, and automated cell image analysis to address pressing challenges in infectious diseases. More information on the [group website](#).

### Key Research Areas

- Molecular Mechanisms of Bacterial Pathogenesis: Investigating how bacteria interact with host cells and evade immune responses.
- Antimicrobial Drug Development: Designing and testing new compounds to combat resistant bacterial strains.
- Microbial Genetics and Genomics: Using genetic and genomic tools to understand bacterial infection and adaptation.

### Responsibilities

- Conduct independent research under the supervision of leading experts.
- Collaborate with interdisciplinary teams on experimental design and data analysis.
- Present findings at international conferences and publish in leading journals.

### Requirements

- Master's degree in Biochemistry, Microbiology, or related field.
- Strong background in molecular biology, protein chemistry, and microbiological techniques.
- Excellent analytical and problem-solving skills.
- Demonstrated ability to work independently and in a team.

### Benefits

- Competitive stipend and comprehensive benefits package.
- Access to state-of-the-art laboratory facilities and resources.
- Opportunities for professional development and networking.
- Collaborative and supportive research environment.

### Application Process

Interested candidates should submit the following information to [marc.torrent@uab.cat](mailto:marc.torrent@uab.cat) by **July 30, 2024**.

1. Curriculum Vitae (CV)
2. Cover letter outlining research interests and career goals
3. Contact information for three professional references
4. Copies of relevant academic transcripts and publications