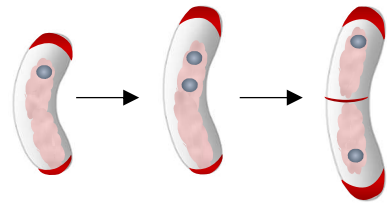


PHD STUDENTSHIP IN MOLECULAR MICROBIOLOGY

Project: The role of ParA-like protein in the coordination of mycobacterial cell cycle

funded under the Preludium Bis scheme

Project Principal Investigator: Prof. Dagmara Jakimowicz



Project description

Mycobacteria are mostly known as dangerous pathogens, causing tuberculosis or leprosy. As all bacteria, for successful proliferation, mycobacteria must coordinate the duplication of genetic material, its separation into progeny cells and cell division. Mechanisms responsible for the synchronisation of these key processes are still underexplored in mycobacteria but preliminary studies indicate the significant role of ParA-like protein. **This research project aims to establish the function of the mycobacterial ParA-like protein.**

PhD Student will dissect the mechanism of ParA-like protein activity and explore its role in the control of the mycobacterial cell cycle. The project will use biochemical approaches to analyse the protein-protein interactions, microbiological studies of non-pathogenic *Mycobacterium smegmatis*, as well as advanced microscopy analyses. Additionally, the studies of zebrafish infection by *Mycobacterium marinum* are planned – this part of the research will be conducted during the scientific visit in Max Planck Institute in Berlin.

Most of the project will be conducted **in Molecular Microbiology Department, Faculty of Biotechnology, University of Wrocław.**

What we offer:

- Scholarship for 4 years at University of Wrocław,
- 3-month scientific visit in Berlin, Max Planck Institute for Infection Biology,
- Work in dynamic scientific group providing excellent research environment promoting publications in high impact journals,
- Financial support of abroad scientific visits and attending conferences,
- Support in preparing grant applications and engaging in personal development.

Requirements:

- Education: MSc or equivalent in biology, biotechnology or related sciences.
- Participation in the Doctoral School of the University of Wrocław
- Required skills:
 - Practical experience in molecular microbiology (prior work experience with mycobacteria/ microscopy/protein-protein interaction will be beneficial)
 - Professional working proficiency in English
 - Professional working proficiency in Polish is beneficial
- Strong motivation in scientific research, creativity in solving problems, independence, ability to work as part of a team.

Further information

Project start date: October 2024, the end of project September 2028

Application and additional information

To apply, please send your application, including motivation letter, CV with the list of your publications (if available) and achievements, Master's (or Bachelor's) degree thesis and contact information to the scientific supervisor and other referees (if available) to the following e-mail address: dagmara.jakimowicz@uwr.edu.pl

Application deadline – 5th July 2024

Interviews will take place between 8th and 16th July, the results will be announced on 22nd July

For additional information, please contact the principal investigator: Dagmara Jakimowicz
(Dagmara.jakimowicz@uwr.edu.pl)

Incomplete applications may not be considered. We thank all applicants for their interest; however, only selected candidates may be invited for an interview. The Announcer reserves the right to respond only to selected offers. The call may be closed without selecting a candidate.

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, all candidates are requested to provide consent to the processing of his or her personal data by the institution which carries out the recruitment process. Thus, please include in your application the following statement: "I authorize the University of Wrocław to process my personal data included in the application documents for the purposes necessary for the current recruitment procedure for the position of PhD student-scholar and in subsequent recruitment of candidates for the position of University of Wrocław in accordance with the General Data Protection Regulation of April 27, 2016. In addition, I declare that I have been informed that I can withdraw my consent at any time and that the withdrawal of consent does not affect the legality of the processing carried out on the basis of consent before its withdrawal."