

TWO PHD STUDENTSHIPS IN MOLECULAR MICROBIOLOGY

Project: The interplay between nucleoid associated proteins and transcription factors at regulation of gene expression in antibiotic producing bacteria

Project Principal Investigator: Prof. Dagmara Jakimowicz

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Project description

The aim of the project is to investigate the impact of changes in the organization of the *Streptomyces* chromosome on gene expression. We will examine the biological function of nucleoid associated proteins, their binding to DNA and their influence on binding of transcriptional regulators. The PhD projects will encompass the preparation of modified *Streptomyces* strains, their transcriptional analyses, and analyses of intermolecular interactions – protein-protein and protein-DNA in vitro and in vivo. The PhD students will be involved in analyses of the obtained results and their presentation at seminars and conferences. They will also be involved in the research team's activities.

What we offer:

- Scholarship at University of Wrocław,
- 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.
- Practical experience in molecular microbiology. Prior experience with *Streptomyces*, bacterial genetics, or protein–protein interaction studies will be an advantage.
- Proficiency in English; knowledge of Polish is beneficial but not required.
- Strong motivation for scientific research, creativity in problem-solving, independence, and ability to work effectively as part of a team.
- Participation in the Doctoral School of the University of Wrocław will be required. Recruitment is expected upon successful selection for the project.

Further information

Project start date: October 2025

Application and additional information

Application deadline: 25th July 2025. 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

We thank all applicants for their interest; however, only selected candidates may be invited for an interview. Applications will be accepted until the position is filled. Incomplete applications may not be considered. If the winner of the competition resigns from signing the contract, we may choose the next best person from the ranking list. The successfully recruited candidates will be notified **by 8th August**. For additional information, please contact the principal investigator: Dagmara Jakimowicz (dagmara.jakimowicz@uwr.edu.pl)

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 hereby agree to the processing of my data included in the application documents by University of Wrocław, Poland, to carry out the recruitment process."