

POSTDOC POSITION AVAILABLE

We offer employment in the project “*Proteolysis-targeting strategies in bacterial systems for functional studies of proteins and improvement of antibiotics*” funded by the FIRST TEAM program from the Foundation for Polish Science.

The Structural Biology Group led by Maria Górna specializes in structure-function studies of proteins and is interested in developing their applications in biotechnology and medicine. We are a young group affiliated with the Faculty of Chemistry of the University of Warsaw and located at the Biological and Chemical Research Centre. See <https://gorna.uw.edu.pl>

Project description:

We will establish whether an induced-proteolysis approach would be effective to down-regulate target endogenous proteins in bacteria, and engineer the chemical tools (proteolysis-targeting chimeras, or PROTACs) needed to do so. We will screen for suitable bacterial proteases and ligands, and identified compounds will be validated *in vitro* and in bacteria. The resulting tools will enable regulation of gene expression on the protein level for studies of protein function and drug action. Bacterial PROTACs could pave the way to create novel antibiotics, which is crucial in the era of increasing antimicrobial resistance. Our collaborators include Ben Luisi (University of Cambridge) and WPD Pharmaceuticals.

Ideal Candidate's profile:

- A PhD degree in biochemistry or a related field (PhD may be pending defense). The number of years after PhD degree is irrelevant (very experienced postdocs may apply too – no “young doctor” requirement).
- A very good command of English
- Experience in protein expression and multi-step purification procedures using FPLC
- Experience in quantitative methods of assaying protein-protein and protein-ligand interactions (preferably also HT)
- Experience in structural biology methods and working in a structural biology environment
- Good skills in working as part of a team

The Candidate should expect:

- a full-time position at the University of Warsaw up to 34 months (position is open from 01.04.2019)
- a gross salary of 90000 PLN/year (corresponding to 4500 PLN net monthly), with extra social care and other benefits.
- to clone and purify protein constructs and complexes with ligands, to conduct advanced biochemical and structural analysis of proteins and their interactions with ligands, to screen compound libraries and assay protein activity
- to participate in conferences and training, to visit collaborating labs, to write publications and funding proposals.

Application should include:

Motivation letter, Curriculum Vitae (including experience in supporting grant projects), 2 recommendation letters (preferably) or contacts to 2 referees; a signed consent clause (found below or at <https://gorna.uw.edu.pl/en/jobs>).

Applications should be submitted in English by email to recruit.gorna@gmail.com

Selected candidates will be invited for an interview in English. The offer is open until we identify the right candidate.

Please include in your offer this **signed** and **dated** clause: “I hereby consent to have my personal data processed by the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw. I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.”