



PhD Studentship in Molecular Microbiology:

Structural and functional characterisation of the key polarity determinant DivIVA in *Streptomyces venezuelae*.

Streptomyces are Gram positive, soil dwelling, filamentous bacteria that are well known for their ability to produce numerous secondary metabolites with a wide range of clinical applications (including antibiotics, antifungals, and immunosuppressants). Despite their broad biotechnological importance, the cell morphogenesis in these filamentous bacteria is surprisingly poorly understood. The focus of this project is in studying the structure and function of the key polarity determinant DivIVA.

The student undertaking this project will receive comprehensive training in state-of-the-art methods in microbiology with particular focus on biochemistry, structure elucidation, genetics and fluorescent microscopy. Furthermore, the provided multi-disciplinary training will equip the student with a broad range of skills highly relevant for a future career both in academia or industry. This project is well suited to students requiring flexible working arrangements.

Further information

Planned start date: October 2022

Requirements:

1. Education: MSc or equivalent in biology, biotechnology or related sciences.
2. Has to participate in the Doctoral School of the University of Wrocław
3. Preferred Skills:
 - (a) Practical experience in biochemistry,
 - (b) Professional working proficiency in English
 - (c) Professional working proficiency in Polish is beneficial
4. Strong motivation in scientific research, creativity in solving problems, independence, ability to work as part of a team.

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