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UNIVERSITET

PhD position in Medical Microbiology

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Uppsala University is a comprehensive research-intensive university with a strong international standing. Our ultimate goal is to conduct education and research of the highest quality and relevance to make a long-term difference in society. Our most important assets are all the individuals whose curiosity and dedication make Uppsala University one of Sweden's most exciting workplaces. Uppsala University has over 54,000 students, more than 7,500 employees and a turnover of around SEK 8 billion.

The Department of Medical Biochemistry and Microbiology (IMBIM) at Uppsala University provides a broad international environment for research and teaching. The Department's research covers three collaborative and partially integrated sections: Cancer, infections and immunity as well as genetics and genomics. More info: <http://www.imbim.uu.se/research-areas/>.

We seek a highly motivated individual, with an ability to work independently and a strong interest in pursuing a PhD degree in medical microbiology.

Project description: The research group where the candidate will be joining is focusing on mechanisms and dynamics of molecular evolution in bacteria, with a strong focus on evolution of antibiotic resistance. The candidate will also be working in close contact with another research group at the department studying the dynamics of plasmid copy number. The goals for this project are i) to better understand the impact of gene copy number variation on antibiotic resistance, resistance evolution, and horizontal gene transfer, with a strong focus on variations in plasmid copy number, and ii) to study the regulation and molecular mechanisms of gene copy number variation, with a strong focus on antibiotic-induced variations in plasmid copy number. To reach these goals, the successful candidate will have access to a large collection of genetically well-characterized microorganisms, cutting-

edge tools (including ddPCR, Illumina and Nanopore sequencing), and an interactive and stimulating working environment.

Duties: The successful candidate will primarily engage in research work and doctoral studies. Other duties at the institution are administration and teaching that may be included in the employment at a maximum level of 20 %.

Qualifications: For employment the candidate must hold a M.Sc. degree (or equivalent, corresponding to 240 credits) in Genetics, Microbiology, Evolutionary Biology or a related field. We are looking for a candidate who has a strong interest in basic research in microbiology and bacterial genetics. Previous practical experience in microbiology and bacterial genetics is highly desired. Working knowledge in bioinformatics and statistics is highly appreciated. Very good oral and written communication skills in English are required. Emphasis will also be given on personal qualities such as collaboration and communication skills as well as analytical capacity. Ability to take own initiatives as well as to work well independently and in interaction with other research groups is an asset.

To be employed as a PhD student, the applicant must be accepted in a doctoral programme. Information concerning doctoral education, requirements and rules of admission can be found at <http://www2.medfarm.uu.se/utbildning/forskarniva/>. The length of the study period for full time employment is a maximum of four years. Terms for graduate studies can be found in Högskoleförordningen 5 kap 1-7 §§. Salary is subject to established local guidelines.

Salary: According to local agreement for PhD students.

Starting date: As agreed.

Type of position: Temporary position according to the Higher Education Ordinance chapter 5 §§ 1-7.

Scope of employment: 100%.

For further details, please contact: Dr. Hervé Nicoloff, herve.nicoloff@imbim.uu.se, or Dr. Helen Wang, helen.wang@imbim.uu.se.

Application: Please submit your application using the Uppsala University application portal, by including a CV, a letter describing your research interest and skills, publications or a copy of master thesis or equivalent, contact information of two referees (phone number and e-mail address).

You are welcome to submit your application no later than May 16th, 2022, UFV-PA 2022/813.

Are you considering moving to Sweden to work at Uppsala University? If so, you will find a lot of information about working and living in Sweden at www.uu.se/joinus. You are also welcome to contact International Faculty and Staff Services at ifss@uadm.uu.se.

Please do not send offers of recruitment or advertising services.

Submit your application through Uppsala University's recruitment system.

Placement: Department of Medical Biochemistry and Microbiology

Type of employment: Full time , Temporary position longer than 6 months

Pay: According to local agreement

Number of positions: 1

Working hours: 100%

Town: Uppsala

County: Uppsala län

Country: Sweden

Union representative: Saco-rådet saco@uadm.uu.se

ST/TCO tco@fackorg.uu.se

Seko Universitetsklubben seko@uadm.uu.se

Number of reference: UFV-PA 2022/813

Last application date: 2022-05-16

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