

Postdoc, 100%, Phenotypic heterogeneity in the human pathogen *Pseudomonas aeruginosa*

The **Biozentrum of the University of Basel** is one of the world's leading Life Science Institutes with over 30 research groups and 500 employees. We research how molecules and cells create life, spanning the scale from atoms to organisms. Founded in 1971, the Biozentrum has been the birth place of many fundamental discoveries in biology and medicine, spawning several Nobel Laureates.

A **postdoc position** is available at the Biozentrum within a larger study funded by the Swiss National Science Foundation (SNSF) on «**The role of toxin/antitoxin modules in *Pseudomonas aeruginosa* phenotypic heterogeneity and antibiotic tolerance**». The project aims at reaching a molecular and cellular understanding of phenotypic heterogeneity in populations of *P. aeruginosa* and its contribution to virulence and persistence of this important human pathogen.

We are seeking excellent and highly motivated candidates with experience in **microbial single cell analysis**. Candidates should have a PhD with a strong background in one or several of the following fields: single cell analysis and microfluidics; microbial cell biology; molecular microbiology; microbial physiology. Experience in designing and fabrication of microfluidic devices and in single cell microscopy analysis is expected. Good communication skills in oral and written English are essential.

Successful applicants will be working in an interdisciplinary team of researchers investigating mechanisms of virulence and persistence of the human pathogen *P. aeruginosa*. The team includes experts in molecular microbiology, computational biology and structural biology. The new team member will investigate 1) mechanisms of binary toxin expression; 2) interference of toxin activity with *P. aeruginosa* metabolism; and 3) explore the clinical relevance of toxins during chronic *P. aeruginosa* infections.

We offer an outstanding and highly interactive scientific environment, state-of-the-art technology platforms, highly competitive salaries, and opportunities for advanced training and career development. The position is available immediately and is funded for four years.

Basel is a cosmopolitan city at the heart of Europe. Bordering three countries, Switzerland, Germany, and France, Basel provides a high standard of living with a thriving cultural atmosphere. The Basel area is Europe's most important Life Science hub with many small and medium-size biotech companies as well as global pharmaceutical players.

Please send your application (cover letter, CV, diplomas and contact information of 2-3 referees) to Prof. Urs Jenal, Biozentrum, University of Basel, Klingelbergstrasse 70, 4056 Basel, Switzerland, e-mail: urs.jenal@unibas.ch. For further information, please see www.biozentrum.unibas.ch/jenal or contact urs.jenal@unibas.ch.