**Postdoc positions for research in Persistent Bacterial Infections - PERFECTION\*, Rigshospitalet, Copenhagen Ø, Denmark**

A research project – PERFECTION – investigating persistent bacterial infections has recently been established at Rigshospitalet (National Hospital) in Copenhagen\*\*. The research will focus on bacterial infections caused by a range of bacterial species infecting lungs, skin (wounds) and stomach, which are often resilient to treatment and therefore develop into persistent infections. Host-microbe interactions will be investigated in infection models mimicking the relevant patient tissues, and access to bacterial strain libraries from infected patients will be exploited for analysis of infection stages and trajectories.

PERFECTION is rooted in the Infection Microbiology Group at Rigshospitalet in collaboration with the Novo Nordisk Foundation Center for Biosustainability at the Technical University of Denmark, currently comprising 10 researchers covering different biomedical areas, e.g. genetics, bacterial metabolism, data modeling and bioinformatics, phages, and genome-wide gene expression. The group is successfully publishing in high-ranking journals and has a wide international network of collaborative partners.

We currently search for 4 ambitious and highly motivated postdoctoral researchers with documented expertise within one or more of the following areas:

* Cell biology
* Molecular biology (genome editing)
* Molecular microbiology (genetics, -omics, data analysis)

The topics cover the following research areas:

*Cell biology*: searching for a postdoctoral candidate with a strong background in cellular and molecular biology to develop stem cell-based infection models. The candidate will participate in developing and optimizing strategies and protocols to generate and maintain human airway organoids and air-liquid interface (ALI) cultures.

*Molecular biology*: searching for a postdoctoral candidate with a strong background in use of a diverse range of technologies such as organoid models, CRISPR/cas engineering.

*Molecular microbiology*: searching for postdoctoral candidates with a strong background in transcriptional and functional analysis at population level and preferably also single cell level.

Submitted applications must include the following:

* Short statement of reason for applying
* *Curriculum vitae*
* List of publications and previously obtained grants, honors and awards
* Short resumé of previous research and employments
* Names of 1-3 references (previous mentors or supervisors)
* MSc and PhD diploma

The period of employment is 1 to 2 years with the possibility of extension. Application deadline is September 14, 2020 at 12:00. Interviews of short-listed applicants will be organized in the second half of September 2020.

For further questions please contact Helle Krogh Johansen, professor, consultant, DMSc., Department of Clinical Microbiology, afsnit 9301 Henrik Harpestrengs Vej 4A, 2100 Copenhagen Ø, Denmark. Phone.: +45 3122 8406, mail: hkj@biosustain.dtu.dk

Salary according to current agreements.

Expected starting date: late 2020

\*PERFECTION is a research project supported by the Novo Nordisk Foundation with participation from Professor Helle Krogh Johansen (Rigshospitalet), Professor Thomas Bjarnsholt (SUND, University of Copenhagen), Associate Professor Manuel Amieva (Stanford University, California) and Professor Søren Molin (Technical University of Denmark)

\*\*Rigshospitalet is Denmark's international hospital, which offers highly specialized treatment for citizens in Denmark, the Faroe Islands and Greenland. We are the country's largest hospital, where the leading experts and researchers ensure that the hospital in its treatment, research and education is on par with the best in Europe.