Would you like to write your Master Thesis at a biotechnological company?

Nordic Bioscience offers a research-oriented thesis project focusing on extracellular protein characterization

Kidney fibrosis is a common pathological trait of chronic kidney disease. Patient with active kidney fibrosis progress faster to kidney failure and have a higher chance of dying. A common feature of fibrosis in different organs is dysregulation of extracellular matrix (ECM) protein synthesis and degradation, such as collagens, originating from tissue damage- or wound-repair mechanisms. The accumulation of these ECM proteins is the hallmark of fibrotic diseases.

Nordic Bioscience is a biotechnology company specializing in the discovery, development, and commercialization of biochemical markers for a range of diseases. As a student at Nordic Bioscience you will be part of a young and dynamic team. During the project, you will learn various techniques ranging from ELISA development, protein cleavage and peptidome analyses.

The Project

The project is a collaboration between Nordic Bioscience (NB) and Copenhagen University (KU). At NB you will be situated in the Renal and Cardiovascular Research team. The work performed at KU will take place in the Department of Biomedical Sciences.
The aim of this master thesis project is to identify a novel extracellular matrix biomarker specific for chronic kidney disease by a combination of wet lab (protein cleavage and mass spectrometry) and in silico analyses at both NB and KU, and to develop a novel biochemical marker ELISA aimed at measuring a fragment of a protein generated through a pathologically relevant mechanism of fibrosis. Additional experiments to characterize these biomarkers could include western blot, histology, and immunohistochemistry.

Supervision

Your main university supervisor will be Professor Michael Jonathan Davies at KU. You main co-supervisors will be Associate Professor Per Mårten Hägglund at KU and Federica Genovese, Director of Kidney and Cardiovascular research at NB. At NB, you will be supervised daily by a PhD student, Alexandra Møller, who will ensure that you are thoroughly introduced to the in-house laboratory techniques that you will use.

We are happy to welcome you at Nordic Bioscience, where you will find an educational environment that will teach you both research and commercial aspects of science. Unlike many other biotechnical companies, publications are of high priority here which makes an ideal setting for a master's student.

Are you interested? Or do you have questions?
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