Master's thesis project at Novo Nordisk A/S

Do you want Novo Nordisk Pathology & Imaging, Global Drug Discovery & Development Sciences, Måløv to be your collaboration partner in your Master's thesis? Are you motivated by complex scientific and analytical challenges, then we have an exciting project for you.

About the department

Pathology & Imaging is a department within Global Discovery and Development Sciences and is situated in Måløv, Denmark. The department is committed to the development of new pharmaceutical entities and is working with state-of-the-art histology and imaging technologies to support both early and late stage projects.

About the project

Complications of atherosclerosis remain the top cause of morbidity, mortality and loss of useful life years in Western Europe and the United States. The devastating health impact of this disease has led to the conduction of numerous mouse studies to increase our understanding of the complex disease and find new treatment strategies. Currently, the evaluation of experimentally induced atherosclerosis in mice is primarily based on en face analysis and classical histology. These methodologies provide a 2D picture of the plaque burden. Recently, a 3D method for evaluation of atherosclerotic plaques to improve quantification and characterization of experimental atherosclerosis in mice was developed (light sheet fluorescence microscopy). We want to optimize, develop and compare the performance of these methods.

Your tasks and responsibilities will be varied and will include input to and review of study designs and analytical methods, literature research and development of algorithms to predict plaque burden and cellular composition of plaques from both 2D and 3D methods.

The project period is 6-12 months and the start date is flexible although Q4, 2020 is preferred.

Qualifications

You are studying engineering or life sciences and are eager to learn how we do research in the pharmaceutical industry. The next part of your education entails writing a major project. You like combining biology, imaging and artificial intelligence (knowledge in programming and/or image analysis). You work in a structured way and have a sharp eye for details. Lastly, you speak and write English fluently.

Working at Novo Nordisk

At Novo Nordisk your skills, commitment and ambition will help us drive change to defeat diabetes and other serious chronic diseases. In exchange, we offer you a chance to work with extraordinary talent and to develop professionally and personally. You will experience an enthusiastic working climate with a focus on quality and results.

For further information, please contact:

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