Master projects available in the newly formed Rossing group at the Center for Genomic Medicine in Rigshospitalet

The Rossing research group is looking to recruit highly motivated and ambitious Master students to take part in projects related to Familial Breast Cancer (FBC).

Main area: Cancer Genetics, Translational Medicine and Molecular Biology

Target group: Biochemistry, Molecular Biomedicine, Biology, etc.

Educational level: Masters

Project description:

We are interested to find new additional genes responsible for breast cancer predisposition. Currently, we have identified several new interesting genes to be mutated in our patient cohorts. As a master’s student, you will be responsible to incorporate these mutations in isogenic cell lines using CRISPR. Further CRISPR, you will be responsible for functional characterization of these isogenic cell lines to determine pathogenicity of the respective mutation. We have experienced personnel in the laboratory to assist you with CRISPR and other molecular biology techniques (such as mentioned below).

If you are interested in being a valuable part of our exiting research projects, and guided by your supervisor in the laboratory, please contact Maria Rossing (with a short motivation letter along with your CV) for a meeting, where you will get deeper insight to the current available Master projects.

Techniques used:

CRISPR-mediated genome editing, Flow cytometry, Sanger sequencing, Cloning, Immunofluorescence, Western blotting, RT-PCR, Cell fitness analysis; HR repair efficiency analysis; Drug sensitivity assay; Cell cycle checkpoint assays; Micronuclei formation assay; Comet assay and protein localization assay

Contact Information

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