Postdoc position in IncRNA Biotechnology.

The Marquardt lab at CPSC is offering a postdoc positions starting as early as 1st May 2020.

Summary of lab research focus
The Marquardt lab is interested in the functional significance of non-coding sequences present in genomes. Our primary focus is on how long non-coding RNA (IncRNA) transcription regulates nearby gene expression (1-5). We uncovered organismal benefits of IncRNAs, for example during the response of plants to changing temperature (2), or the maintenance of yeast mitochondrial DNA (3).

Summary of postdoc position to study Crop IncRNA Biotechnology
We are looking for a postdoc for a Novo Nordisk Foundation-funded project to exploit IncRNA-based gene regulation for plant Biotechnology. The postdoc will address the biotechnological potential of IncRNA to improve cold tolerance in cassava. We are looking for a new team member with skills in cassava genetic engineering and genomics methods. The project builds on our characterization of the roles of the Arabidopsis IncRNA SVALKA during cold-acclimation (2).

We are characterizing chromatin signatures associated with gene regulation through the act of RNAPII IncRNA transcription. We welcome enthusiasm and expertise in the generation and analysis of novel genomics methods in cassava (4-5). You will be part of our team that aims to identify predictive molecular signatures of “repressive RNAPII transcription” in genomes.

Successful applicants will demonstrate enthusiasm for the research topic, scientific excellence, “can-do-attitude”, proficiency in genomics data analysis, skills in cassava genetic engineering and a desire to succeed with the project.

Application: Send CV, Cover letter, list of publications, motivation letter and references in a single .pdf document to Sebastian Marquardt by email.


(1) Ard et al. Genetics 2017;
(2) Kindgren et al. Nat. Comm. 2018;
(3) du Mee et al., eLife 2018;
(4) Nielsen et. al, PloS Gen. 2019;