



Two Postdoc Positions in Computational & RNA Biotechnology.

The [Marquardt lab](#) at [CPSC](#) is offering postdoc positions starting as early as 1st September 2021.

04 MAY 2021

Summary of lab research focus

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

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Summary of postdoc positions in Computational & RNA Biotechnology

The postdocs will address the biotechnological potential of lncRNA to improve cold tolerance. The project combines genome-wide analyses of transcription, mechanistic dissection in *Arabidopsis*, and translational research (in cassava and tomato). The project builds on the *Arabidopsis* lncRNA *SVALKKA* during cold-acclimation (2), and short-proximal RNAs (sppRNAs) linked to plant gene expression during cold (1).

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<http://cpsc.ku.dk/meet-the-scientists-page/sebastian-marquardts-group/>

We welcome expertise in the research areas of genomics, RNA biotechnology and epigenetics. Characteristics of successful applicants are enthusiasm for the research topic, scientific excellence, “can-do-attitude” and a desire to succeed. New team members should ideally have strengths in:

REF: ASM

- cutting-edge genomics data generation and analyses using [R/python](#) (1-5);
- molecular biology and plant genetic engineering;

Please use your cover letter to clarify how you envision making strong contributions to this effort as part of our team.

Application: Send cover letter and CV in a single .pdf document to sebastian.marquardt@plen.ku.dk.

Informal inquiries can be directed to sebastian.marquardt@plen.ku.dk.



Deadline: Review of applications starts 25th June 2021 until positions are filled.

- (1) [Thomas et al. Nat. Comm. 2020](#);
- (2) [Kindgren et al. Nat. Comm. 2018](#);
- (3) [du Mee et al., eLife 2018](#);
- (4) [Nielsen et. al, PloS Gen. 2019](#);
- (5) [Kindgren et al. NAR 2020](#).