



## 2 Postdoc positions to study Genomic Punctuation in Copenhagen.

### Postdoc Positions in Genomic Punctuation

The [Marquardt lab](#) at [CPSC](#) is offering 2 postdoc positions starting as early as 1<sup>st</sup> February 2018.

#### Project description

The Marquardt lab is interested in the functional significance of non-coding sequences present in genomes. We are looking for two postdocs to join the lab as part of an ERC-funded project to elucidate the effects of long non-coding RNA (lncRNA) transcription on “genomic punctuation” (1). The project operates at the interface between the research areas of: chromatin biology, RNA biology and RNA polymerase II (RNAPII) transcription. Our primary focus is how lncRNA transcription regulates nearby gene expression (2-4). The positions build on unpublished genetics and genomics data of the lab.

#### I. Postdoc in Genetic Dissection of Genomic Punctuation

We identified genetic systems to dissect gene repression through the act of RNAPII elongation (1) in *Arabidopsis*. We are looking for a new team member enthusiastic about genetic approaches to characterize key players involved. We expect to uncover novel connections between chromatin effects on RNAPII elongation and the regulation of transcription start sites within gene bodies.

#### II. Postdoc in Computational Biology of Genomic Punctuation

We are characterizing chromatin signatures associated with gene repression through the act of RNAPII transcription. We welcome a genomics data enthusiast to help with the generation and analysis of NGS-based approaches (ChIP-seq, TSS-seq, NET-seq, TIF-seq ...). You will be part of our team that identifies predictive molecular signatures of “repressive RNAPII transcription”.

Successful applicants will demonstrate enthusiasm for the research topic, scientific excellence, “can-do-attitude”, proficiency in R and desire to succeed.

**Application:** Send CV, Cover letter, list of publications, motivation letter and references in a single .pdf document to Sebastian by [email](#).

**Deadline:** 15<sup>th</sup> January 2018.

(1) Ard et al. *Genetics* 2017 ; (2) Marquardt et al. *Cell*. 2014 ; (3) Marquardt et al. *Mol Cell*. 2014; (4) \*Liu, \*Marquardt, et al. *Science*. 2010

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