

Interpreting noise in stem cell regulation in the shoot apical meristem of *Arabidopsis thaliana*



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This dissertation is submitted for the degree of
Master of Philosophy in Computational Biology

To Henrik and Stephen.

Declaration

I hereby declare that except where specific reference is made to the work of others, the contents of this dissertation are original and have not been submitted in whole or in part for consideration for any other degree or qualification in this, or any other university. This dissertation is my own work and contains nothing which is the outcome of work done in collaboration with others, except as specified in the text and Acknowledgements. This dissertation contains fewer than 65,000 words including appendices, bibliography, footnotes, tables and equations and has fewer than 150 figures.

Henrik Åhl
August 2017

Acknowledgements

Immense thanks to Professor Henrik Jönsson, who gave me the opportunity to finish my thesis in his group – I am extremely thankful for the opportunity and all the support given.

Abstract

This is where you write your abstract ...

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Nomenclature

Acronyms / Abbreviations

AT *Arabidopsis thaliana*

CLV3 CLAVATA-3

CZ Central zone

KAN1 KANADI-1

L1 Outermost cell layer of the SAM

SAM Shoot Apical Meristem

WUS WUSCHEL

Chapter 1

Introduction

1.1 The Shoot Apical Meristem of *Arabidopsis thaliana*

1.2 Regulatory Mechanics of Plant Stem Cells

Chapter 2

Methodology

2.1 Mathematical formulation of molecular interactions

wawt

2.2 Stochastic Simulations

Chapter 3

Results

3.1 Derivations?

3.2 Simulations and stuff

Chapter 4

Discussion

4.1 This does that. Why?

4.2 Because.

References

Appendix A

How to install L^AT_EX

All makt åt Tengil, vår befriare

Appendix B

This is an appendix

