Report for the Course Modelling in Computational Science, HT23

Project 2: Cell reprogramming

Theo Koppenhöfer (with Jimmy Gunnarson)

Lund September 30, 2023

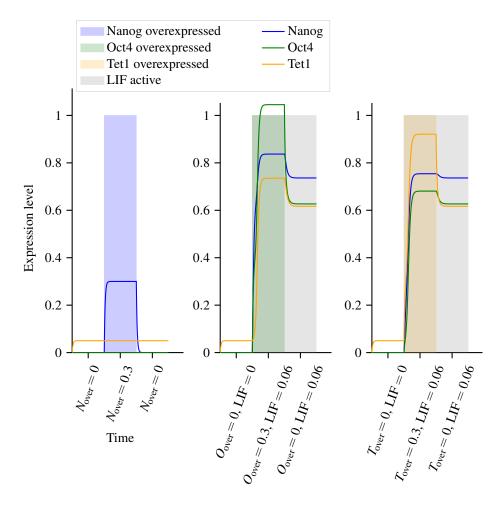


Figure 1: Overexpression of 0.3.

Introduction

The setup

The experiments

Conclusion

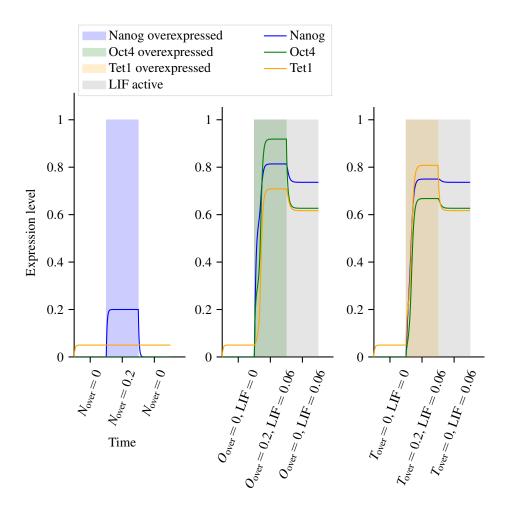


Figure 2: Overexpression of 0.2.

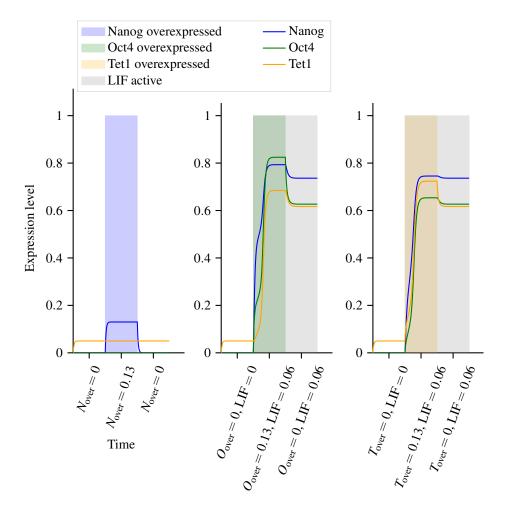


Figure 3: Overexpression of 0.13.

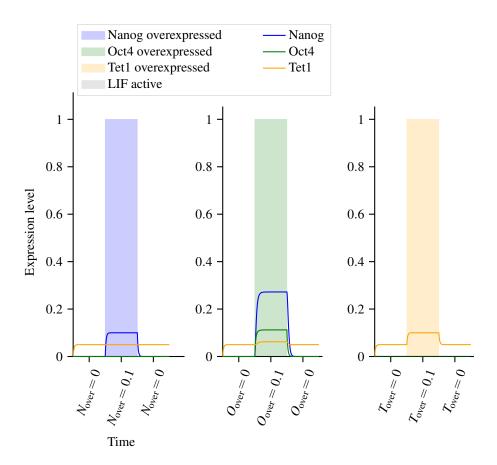


Figure 4: Overexpression of 0.1.

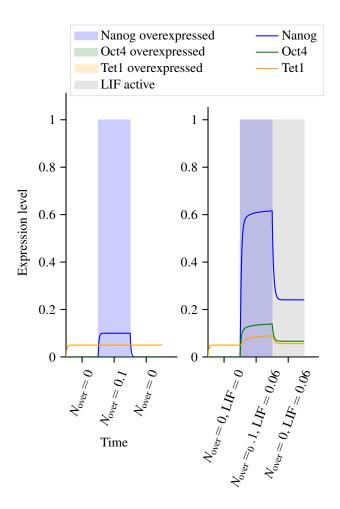


Figure 5: Nanog and Oct4 active.

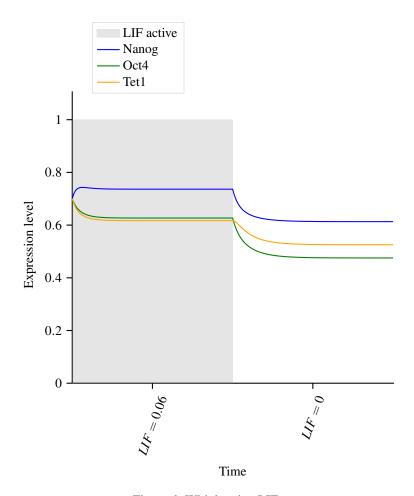


Figure 6: Withdrawing LIF.

Bibliography

- [1] computational-science-HT23, *Github repository to the project*. Online, 2023. [Online]. Available: https://github.com/TheoKoppenhoefer/computational-science-HT23.
- [2] V. Olariu, Modelling in computational science, bern01, 7.5hp, Practical and theoretical knowledge of numerical methods used for solving ode modells for real life science problems. BERN01, University of Lund, Sep. 2023.
- [3] V. Olariu, C. Lövkvist, and K. Sneppen, "Nanog, oct4 and tet1 interplay in establishing pluripotency," *Scientific Reports*, vol. 6, no. 1, p. 25438, May 2016, ISSN: 2045-2322. DOI: 10.1038/srep25438. [Online]. Available: https://doi.org/10.1038/srep25438.