

Report for the Course Modelling in Computational Science, HT23

Project 2: Cell reprogramming

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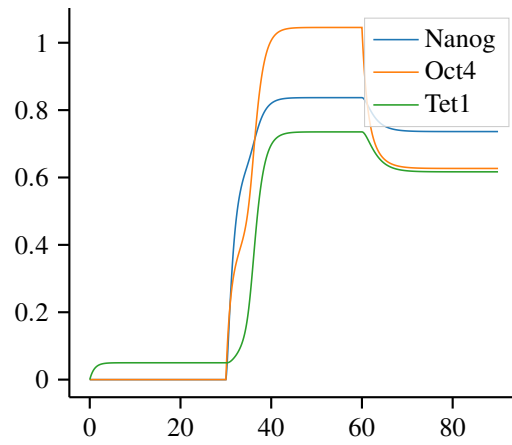


Figure 1: Oct4

Introduction

The setup

The experiments

Conclusion

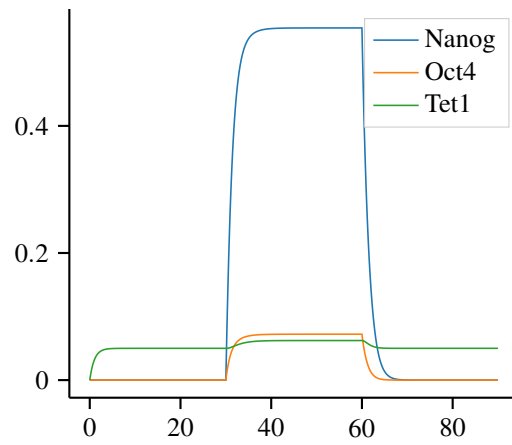


Figure 2: Nanog

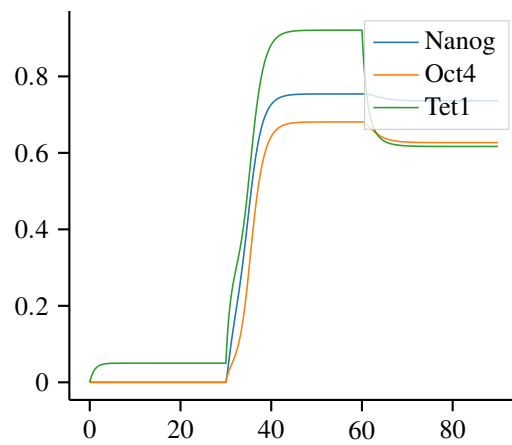


Figure 3: Tet1

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 models for real life science problems*. BERN01, University of Lund, Sep. 2023.
- [3] V. Olariu, C. Lökvist, and K. Sneppen, “Nanog, oct4 and tet1 interplay in establishing pluripotency,” *Scientific Reports*, vol. 6, no. 1, p. 25 438, May 2016, ISSN: 2045-2322. DOI: 10 . 1038/srep25438. [Online]. Available: <https://doi.org/10.1038/srep25438>.