



GT TheoBioR - Computational Methods for Cellular Reprogramming

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Abstract:

Cellular reprogramming consists in manipulating the cell in order to trigger a de-differentiation (back to a pluripotent/stem state) or trans-differentiation (change of function). Within the working group, we focus on the formal modelling and prediction of reprogramming strategies by the mean of discrete dynamical systems, concurrency theory, static analysis, and abductive reasoning (collaborations with LRI, LSV and IBISC).