



## Chapter 12

# CellBranch: increment 1: single transcription factor

The models and results presented here document the first increment of the CellBranch project using the CoSMoS design cycle. Here, we design and calibrate simulations of single TFs in isolation. This single TF version of the full model is not biologically realistic; its purpose is to serve as a building block of complexity as the basis of following increments.

### CoSMoS Simulation Project (92)

Develop a basic fit-for-purpose simulation of the complex scientific domain of interest.

- carry out the Discovery Phase (95)
- carry out the Development Phase (96)
- carry out the Exploration Phase (97)
- Argue Instrument Fit For Purpose (186)

The CellBranch project development omits the CoSMoS argumentation phase.