This repository contains MATLAB scripts to generate **Figures SM.7**

**• FIGURE\_SM\_7.m**

This is the main script to run the simulations.  
You can modify or tune:

* **Initial conditions** (e.g., initial level of DNA methylation): lines 55–60
* **Simulation parameters** (e.g., number of simulations, time points for histogram output)

**• SSA\_FIG\_SM\_7.m**

This file implements the stochastic simulation algorithm (SSA) using Gillespie’s method.  
You can tune **model parameters** (e.g., reaction rates) directly in this file.