S2 Text. Estimation of early cancer growth model parameters.

The parameters of the early cancer growth model are estimated with pints' implementation of NUTS, unless otherwise specified. MCMC chains are run for 1500 iterations, where the first 500 iterations are used for calibration. The convergence is assessed using the $\hat{R}$-statistic from 3 MCMC chains, initialised at randomly sampled points from the prior distribution. The prior distribution for all inference runs is

$$\begin{aligned}
\mu_{y_0} &\sim \mathcal{N}(9, 9) \\
\sigma_{y_0} &\sim \text{LN}(2, 1) \\
\mu_{\lambda} &\sim \mathcal{N}(5, 9) \\
\sigma_{\lambda} &\sim \text{LN}(0.5, 1) \\
\mu_{\sigma} &\sim \text{LN}(0.8, 0.1).
\end{aligned}$$

Detailed information on the convergence can be found in S1 Table.