Table S5. Cell cycle events in the deterministic simulations

Event	Event	Related	Event
#	name	species	description
1	Cell division	Active Clb2	$[\text{Clb2}]_k \le 0.2 \& [\text{Clb2}]_{k-1} > 0.2$
2 (3)	ORI relicensing	ORI	$[ORI]_k = 0$
3 (2)	START transition	Active SBF	$[SBFdep]_k \ge SBF_T *0.5 \& [SBFdep]_{k-1} < SBF_T *0.5$
4 (5)	Bud emergence	BUD	$[BUD]_k \ge 1 \& [BUD]_{k-1} < 1$
5 (4)	ORI activation	ORI	$[ORI]_k \ge 1 \& [ORI]_{k-1} < 1$
6	SPN alignment	SPN	$[SPN]_k \ge 1 \& [SPN]_{k-1} < 1$
7	Esp1 activation	Active Esp1	$[\text{Esp1}]_k \ge 0.2 \& [\text{Esp1}]_{k-1} < 0.2$

Each event corresponds to a concentration value and its specific threshold. Subscript k stands for the current time step, whereas (k-1) represents the previous time step in the simulations. Events 2 and 3 (also 4 and 5) can interchange order without the loss of viability.