**Table S1. Variables of the model**

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| Symbol | Definition |
| MPF | Active Cdk:cyclin complex (fusion protein Cdc13-L-Cdc2) |
| MPFP | Phosphorylated form of the Cdk:cyclin complex, preMPF |
| Slp1A | Active, phosphorylated form of the anaphase-promoting complex, APC:Slp1 |
| IEA | Active form of an intermediate enzyme, which in turn activates APC:Slp1 |
| MPFRum1 | Inactive complex between MPF and Rum1 |
| Rum1 | Cyclin-dependent Kinase Inhibitor, CKI, in fission yeast |
| Rum1P | Inactive, phosphorylated form of Rum1 |
| Wee1 | Active, dephosphorylated form of the kinase Wee1 |
| Cdc25P | Active, phosphorylated form of the phosphatase Cdc25 |
| Mass | Mass of the cell |