



Mathematical Modelling of the Cell Cycle Stress Response (Springer Theses)

Elahe Radmaneshfar

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The cell cycle is a sequence of biochemical events that are controlled by complex but robust molecular machinery. This enables cells to achieve accurate self-reproduction under a broad range of conditions. Environmental changes are transmitted by molecular signaling networks, which coordinate their actions with the cell cycle.

This work presents the first description of two complementary computational models describing the influence of osmotic stress on the entire cell cycle of *S. cerevisiae*. Our models condense a vast amount of experimental evidence on the interaction of the cell cycle network components with the osmotic stress pathway. Importantly, it is only by considering the entire cell cycle that we are able to make a series of novel predictions which emerge from the coupling between the molecular components of different cell cycle phases.

The model-based predictions are supported by experiments in *S. cerevisiae* and, moreover, have recently been observed in other eukaryotes. Furthermore our models reveal the mechanisms that emerge as a result of the interaction between the cell cycle and stress response networks.

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