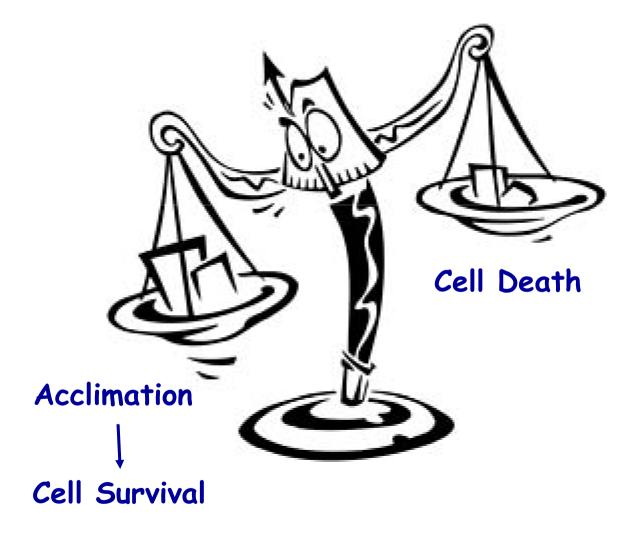
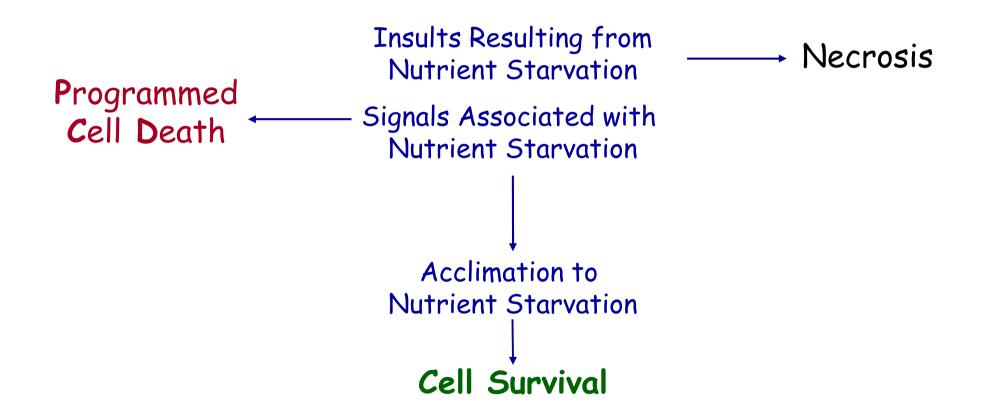
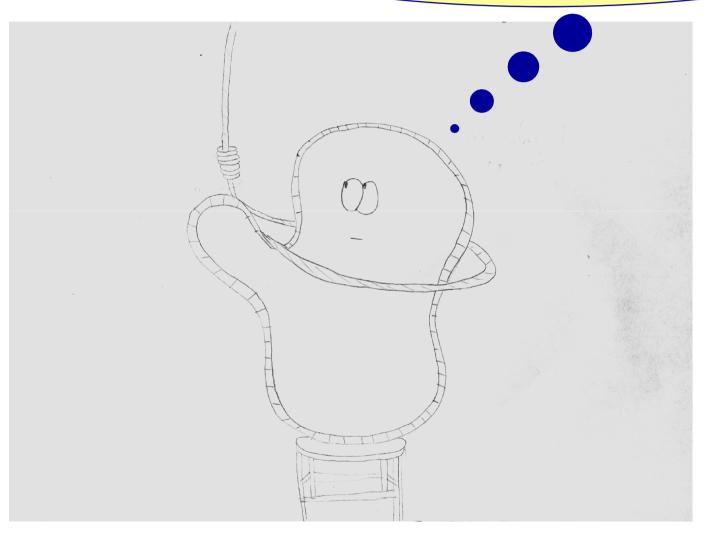
Modulation of Cell Fate during Starvation: Lessons from Nitrogen Starved *S. elongatus* 



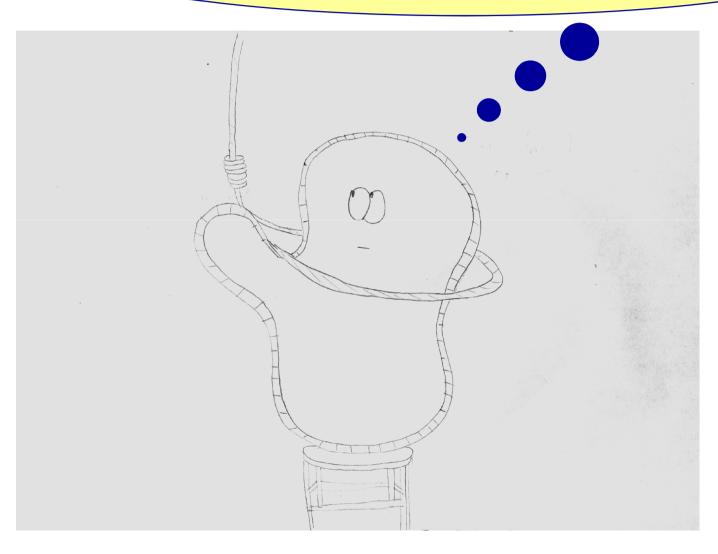
# Cellular Processes Affecting Cell Survival under Starvation – Working Hypothesis



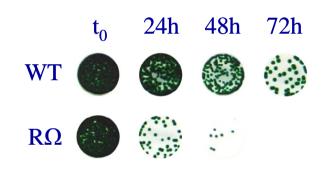
# Programmed Cell Death in a Unicellular Organism ?



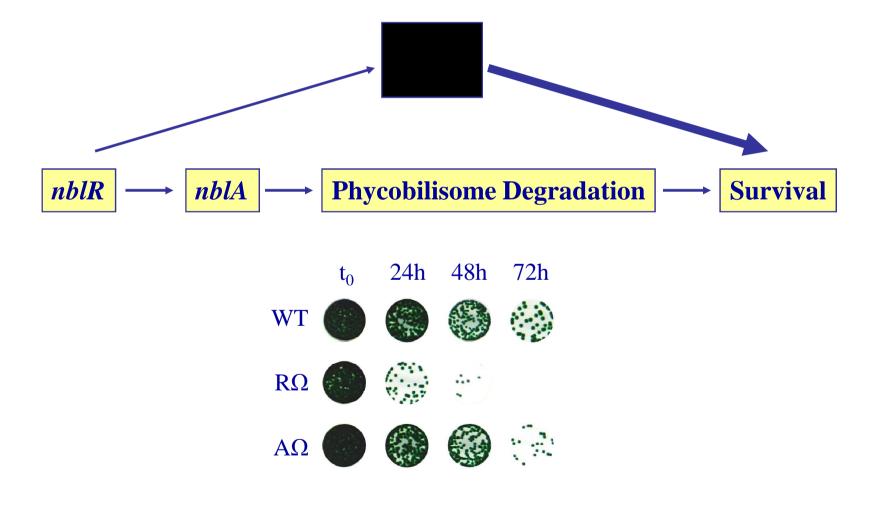
Considering the fact that bacteria exhibit communal behavior, the population as a whole may benefit from the sacrifice of individual cells



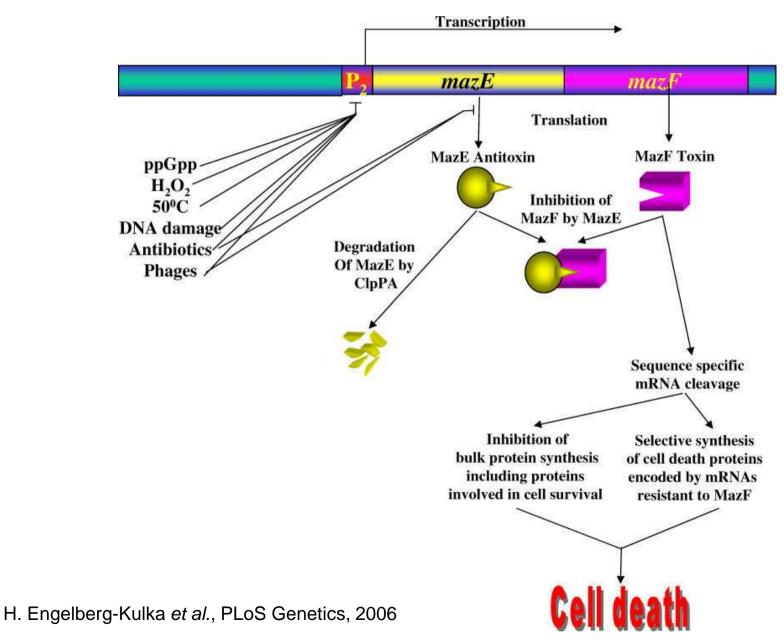
## A Mutant in the Response Regulator Homolog NblR Dies Rapidly during Starvation



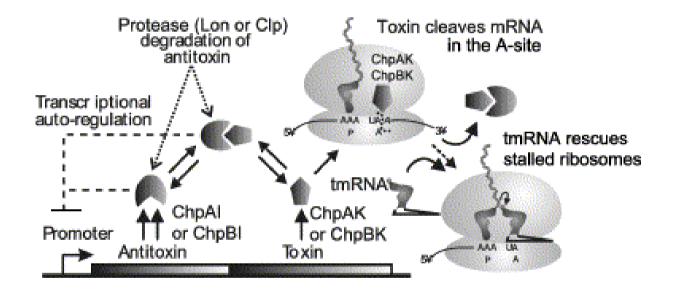
## NbIR Modulates Cell Fate during Starvation



#### A Schematic Representation of *E. coli mazEF*-Mediated Cell Death



### Model for the Role of *chpAIK* (MazEF) and *chpBIK* (RelBE) Toxin-Antitoxin Operons in Translation Attenuation



Christensen SK. .... and K. Gerdes J. Mol. Biol. ,2003