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## The impact of metabolism on aging and cell size in single yeast cells

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## Stellingen

behorende bij het proefschrift

“The impact of cell metabolism on aging and cell size in single yeast cells”

Daphne Huberts, 4 September 2015

1. Microfluidic devices will become the main tool to study yeast aging at the single cell level (This thesis, Chapter 3).
2. Calorie restriction does not robustly extend lifespan (This thesis, Chapter 4).
3. The increase in cell size with replicative age appears to be a side-effect of reproduction (This thesis, Chapter 5).
4. Altering cell size may elicit changes in metabolism under unaltered nutritional conditions by altering metabolic flux (This thesis, Chapter 2 & 5).
5. Yeast cells have individual life trajectories (Lee *et al.*, 2012).
6. Negative findings are scientifically valuable too.
7. Although most people want to live longer and healthier lives, their personal effort to increase the chances to obtain such a life are generally limited.
8. It will be more realistic to promote longevity by finding a cure for age-related diseases than by halting aging itself.