

## Master's Thesis

### Time-resolved dynamics of enzyme activity levels

#### Open topic

- “What makes a microbial cell factory an efficient biofuel-producer?”

This is an interesting and in the context of future biofuel manufacturing essential but - so far - unsolved question. The Master's Thesis will address this problem and focus on the identification of key metabolic sites by studying time-resolved **dynamic responds** of selected **enzymes** from the central carbon metabolism in yeast cells upon induction of biofuel production.

#### Methods involved

- Cultivation of yeasts in a stirred bioreactor under controlled conditions
- Quantitative analysis of yeast physiology
- Quantitative analysis of enzyme activity levels

#### Start of the Thesis

- At any time

#### Contact

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