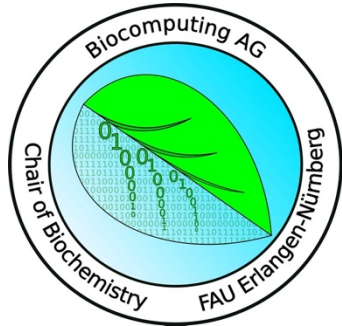


# TENDER MASTERTHESIS



TIMEFRAME:	from ~September 2022 (~6 months)
DIVISION:	Biochemistry
GROUP:	Biocomputing
SUPERVISOR:	Dr. Stephan Reinert Prof. Dr. Uwe Sonnewald

## Drought tolerance-specific differences in barley (*Hordeum vulgare* L.) transcriptome

**DESCRIPTION:** Climate change not only presents society with many hurdles, but increasing weather extremes are also undoubtedly a major challenge for agriculture. In order to meet the demand for food and feed for the world's growing population, crops will have to deliver high yields in the future without relying on a larger cultivation area. To support the development of new barley (*Hordeum vulgare* L.) cultivars, the master thesis announced here will investigate the transcriptome and its differences in drought-tolerant and drought-sensitive barley cultivars and their effects on phenotype. This will include understanding and applying common tools of transcriptomics, but will also include identifying differentially expressed genes and embedding the results in a biological context.

(Bio)informatics knowledge is an advantage, but not mandatory!

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