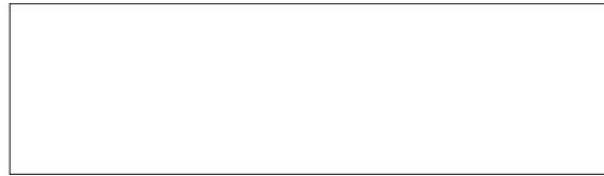




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## Open position for the LSM call of applications

**Department/Institute:** LMU Faculty of Biology, Plant Molecular Biology

**Subject areas/Research fields:** microbiology, genetics, cell biology, ecology

**Keywords:** endosymbiosis, dinoflagellate, adaptive laboratory evolution

**Name of supervisor:** Prof. Dario Leister

### Project title:

Hardening corals against climate change

### Project description:

Climate change is warming and acidifying the oceans, with dramatic effects including coral bleaching and impaired reef building. Several approaches have been developed to address this problem, including the hardening of the algal partner of the coral symbiosis. Our approach is to use adaptive laboratory evolution to rapidly evolve the algal symbiont to be more resistant to relevant stresses, including high temperature and altered PH. Reintroduction of the evolved algae into the symbiotic relationship will then be tested for improved coral performance.

### References:

Dann M, Ortiz EM, Thomas M, Guljamow A, Lehmann M, Schaefer H, Leister D (2021) Enhancing photosynthesis at high light levels by adaptive laboratory evolution.

Nat Plants 7: 681-695. doi: 10.1038/s41477-021-00904-2.

### For further information, please contact:

Dario Leister, [leister@lmu.de](mailto:leister@lmu.de)

### Research group website:

[www.plantmolecularbiology.bio.lmu.de](http://www.plantmolecularbiology.bio.lmu.de)

**Apply:** Please send your application through the [online portal](#) of the Graduate School Life Science Munich (LSM).

