Applications of PAM-fluorescence microscopy — The non-invasive and fast PAM-fluorescence technique is able to provide reliable live images of photosynthetic activity. Selected organisms will be screened (stress experiments, PAM-fluorescence).

Movement of the cyanobacterium *Limnospira*

The planktonic filamentous species *Limnospira fusiformis* is able to rotate, but what could be the trigger for this movement? [algal cultivation experiments]