The thesis is based on the following papers:

Paper I: Cell-specific nitrogen- and carbon-fixation of cyanobacteria in a temperate marine system (Baltic Sea)

Paper II: Inorganic phosphorus enrichments in Baltic Sea water have large effects on growth, carbon fixation and N_2 fixation by *Nodularia spumigena*

Paper III: Phytoplankton community composition and primary production in the tropical tidal ecosystem, Maputo Bay (the Indian Ocean)

Paper IV: A century of evidence: Single cell diversity as a key for growth and success of a common coastal diatom in changing environments

Paper V: CO_2 sequestration can be mediated by a small, fast growing standing stock of chain-forming diatoms under nutrient limitation in the sea

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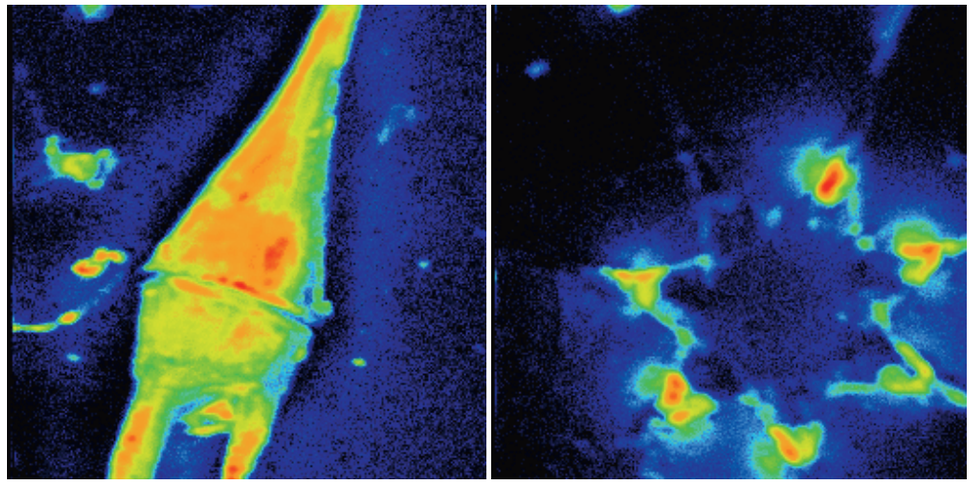

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