

# **Cyanobacteria Microdomains Fluctuations**

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Cyanobacteria are the oldest oxygenic phototrophs. Photosynthetic machinery is localised in the specialised lipid bilayers named thylakoid membranes. The mechanism of how photosystem I (PSI), photosystem II (PSII) and phycobilisomes (PBS) are separated is unveiling only recently. Here I present methods allowing us precise localisation of photosynthetic complexes on the single cell level. We measured microdomain behaviour in different light conditions that revealed possible reason of PSI heterogeneous distribution.