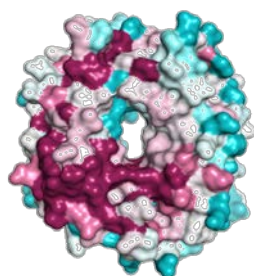


Another part of the "green puzzle" - the Třeboň scientists revealed an important step in the biosynthesis of the photosynthetic apparatus

The work, which was done in collaboration with scientists from Imperial College London, deals with the detailed structure and function of the Ycf48 protein factor, which is crucial for the biogenesis and function of photosynthetic protein complexes (photosystems) of cyanobacteria. The factor is also present in the other oxygen evolving photosynthetic organisms including plants, in which it is even indispensable for the functional photosynthesis. Ycf48 exhibits a doughnut-like shape and it is needed for an effective incorporation of chlorophyll into the membrane protein complexes responsible for photochemical conversion of light energy and oxygen evolution.

Structural protein model



Model of protein function

