Supplementary Information

Size and fluorescence properties of algal photosynthetic antenna proteins estimated by microscopy

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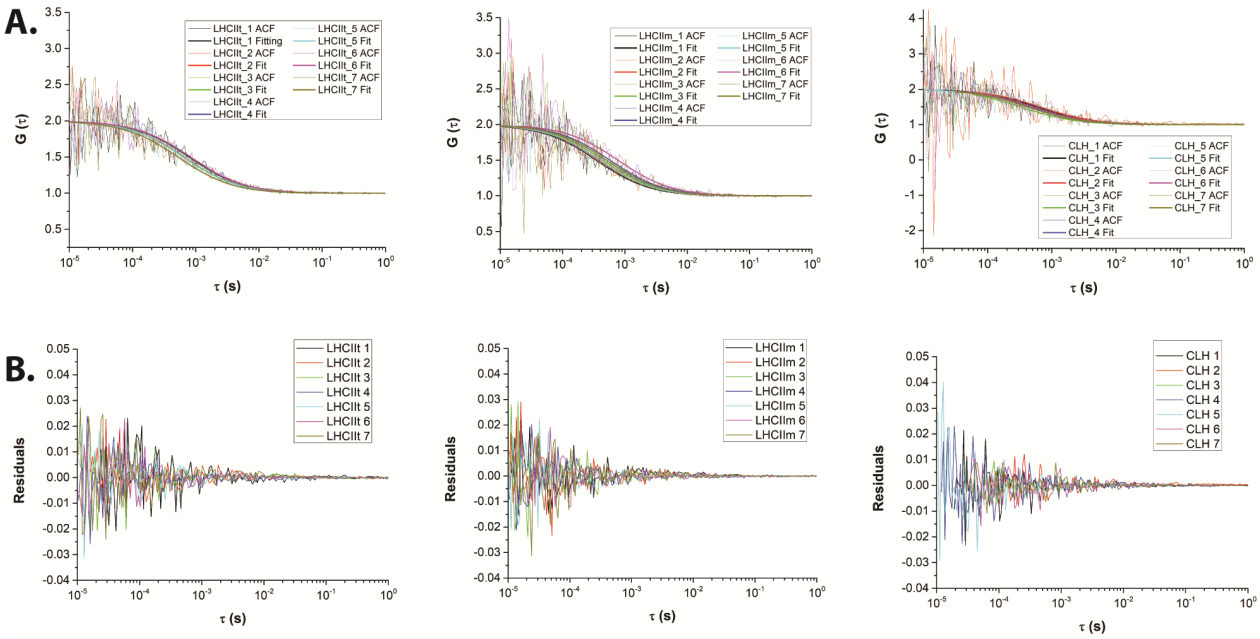
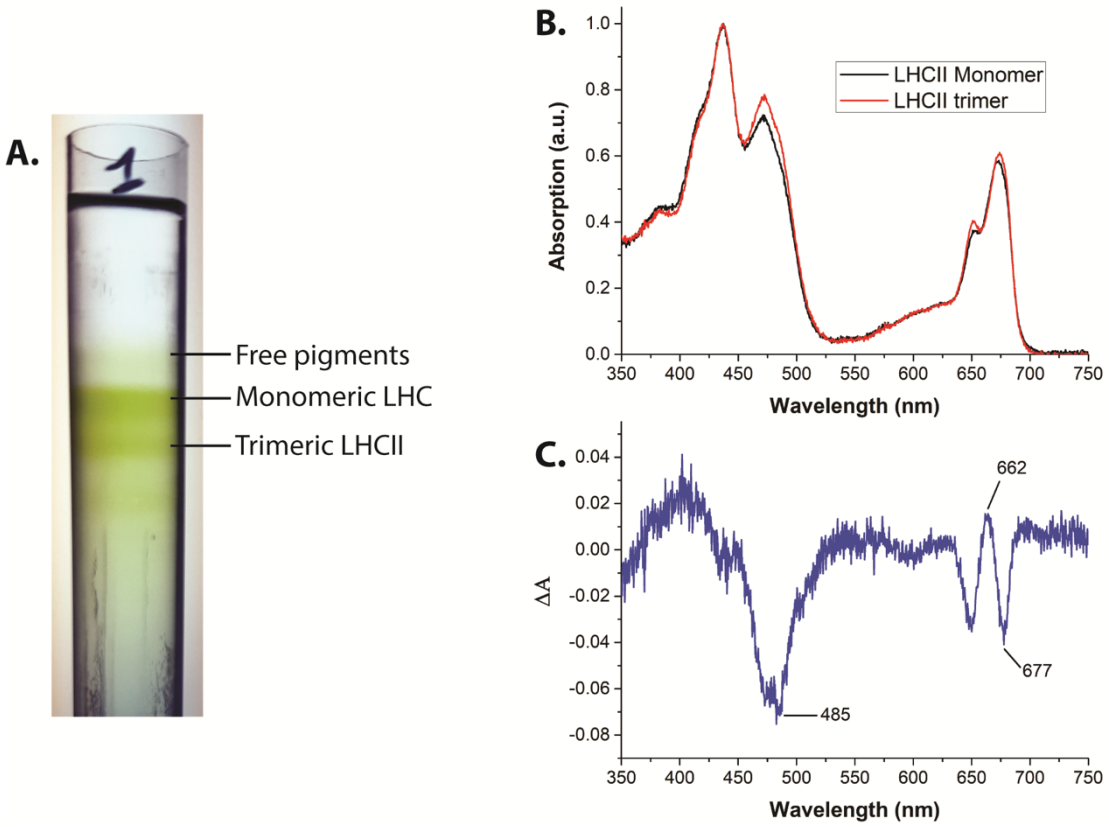
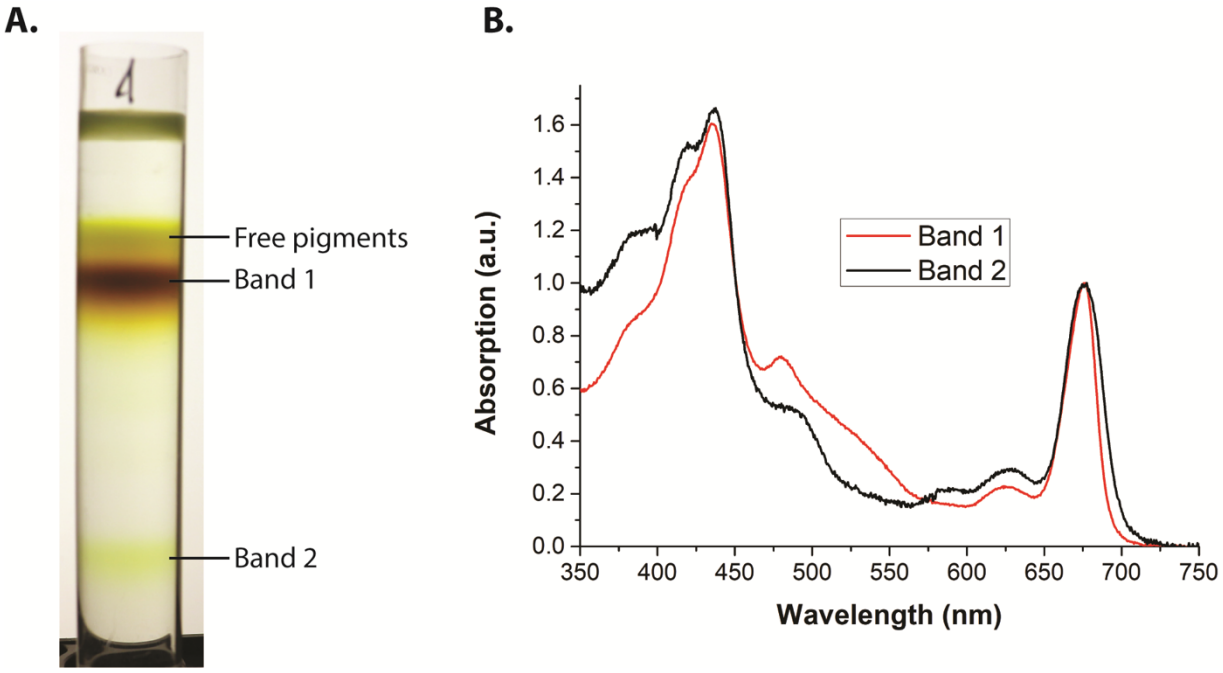


Supplementary Figure S1: Raw FCS results. A) Individual FCS traces and fittings. B) Residuals from the fittings in (A).



Supplementary Figure S2: LHCII monomerization. Purified LHCII trimers were treated with Phospholipase A2 to induce monomerization. A) Separation on sucrose gradient of the LHCII monomers and leftover trimers. B) Absorption spectra of the resulting LHCII monomers and trimers. C) Difference of the absorption spectra (calculated as Abs Monomer - Abs Trimer). The main peaks correspond to the ones typically observed upon LHCII monomerization, due to pigment rearrangement (see [1]).



Supplementary Figure S 3: CLH purification on sucrose gradients made by the freezing-thawing method. (A) Separation on sucrose gradients of solubilized membranes. Apart from the free pigments, two protein bands are visible. They were identified as CLH and PSI, respectively, based on absorption spectra and previous results (see e.g. [2-4]). (B) Absorption spectra of the bands purified from the gradient in (A).

References

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