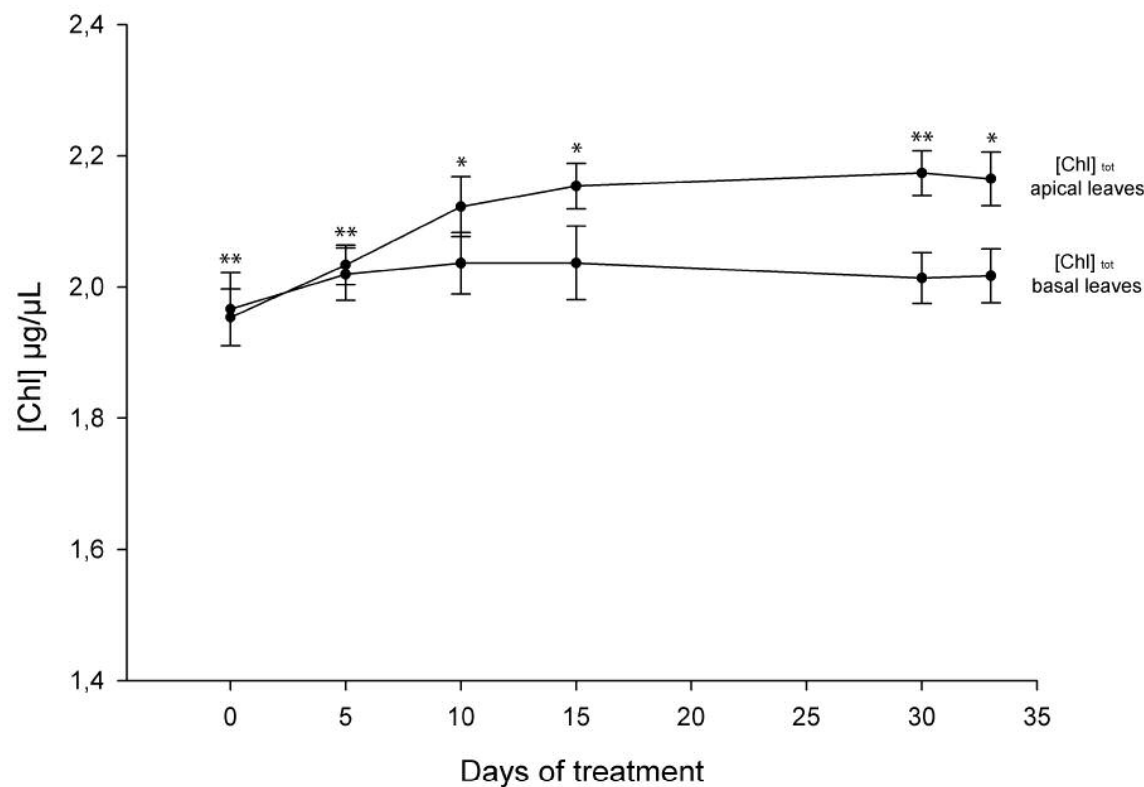
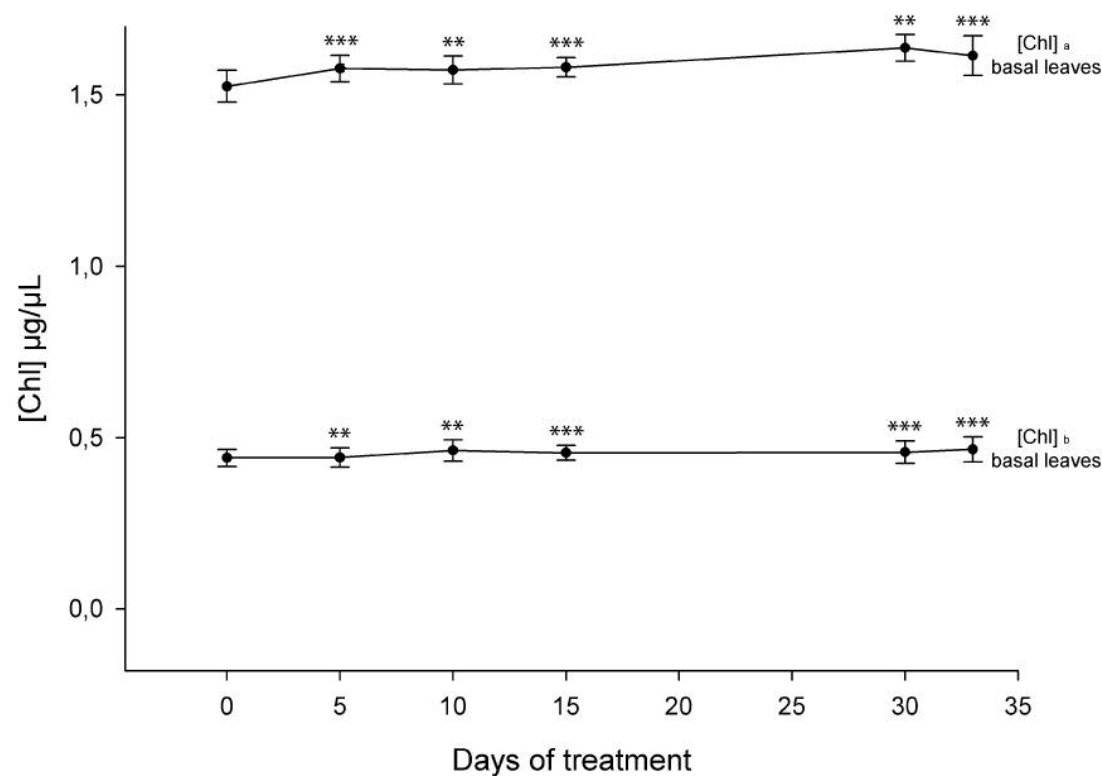


Supplementary material

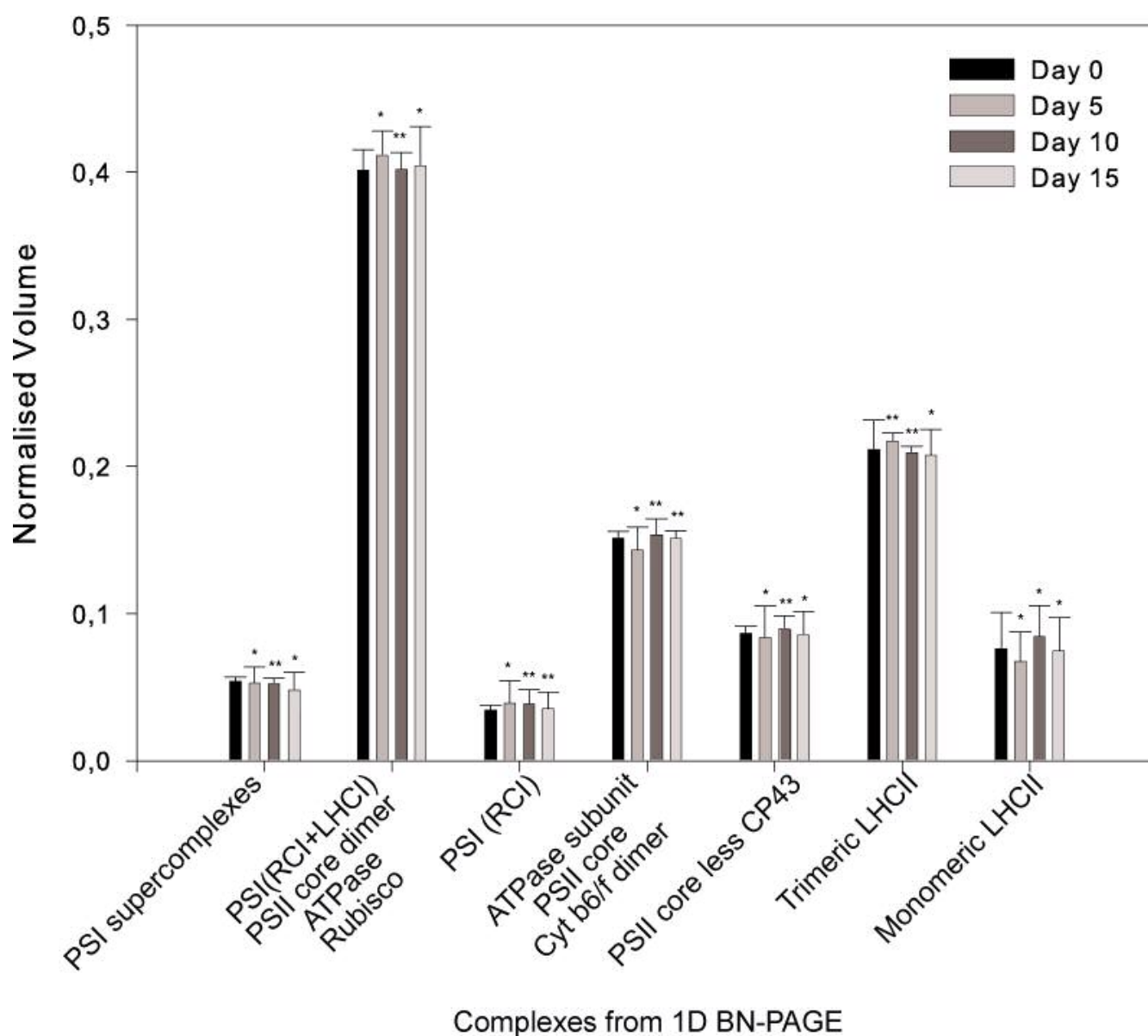
A



B



Supplementary figure 1: (A) Time course of total Chl concentrations measured in the thylakoid membranes of control spinach plants. For each day the total Chl concentration value ($[\text{Chl}]_{\text{tot}}$) of apical leaves were compared to the corresponding basal leaves value. One-way ANOVA test followed by both Tukey's and Scheffe's means comparison test was performed. * ($P < 0.05$), ** ($P < 0.01$) statistically different from same day basal leaves value. (B) Time course of Chl *a* and Chl *b* concentrations measured in the thylakoid membranes of control plant's basal leaves. * ($P < 0.05$), ** ($P < 0.01$), *** ($P < 0.001$): statistically different from day 0 Chl *a* and Chl *b* value. One-way ANOVA followed by both Tukey's and Scheffe's test.



Supplementary figure 2: Blue Native PAGE band volumes time course of thylakoid membrane protein complexes extracted from apical leaves of Cd-treated plants (after 0, 5, 10 and 15 days upon 100 μ M Cd treatment). Results expressed as mean \pm s.e.m. (n=5 per group). One-way ANOVA followed by Tukey's test. * ($P < 0.05$), ** ($P < 0.01$) statistically different from day 0 value.