

Figure S1 Changes in chlorophyll *b* content in the cultures grown at different light intensities. Cultures of (A) *Chlamydomonas reinhardtii*, (B) *Desmodesmus quadricauda*, (C) *Parachlorella kessleri* were grown at incident light intensity 100, 250 and 500 $\mu\text{mol m}^{-2} \text{s}^{-1}$ on different light sources: fluorescent lamps (black circles), RGB LEDs (blue squares) and white LEDs (red triangles). Chlorophyll content was normalized to the total volume of the culture at the particular time-point to allow direct comparison between treatments and organisms. Data of three biological replicates are presented as means \pm SE.

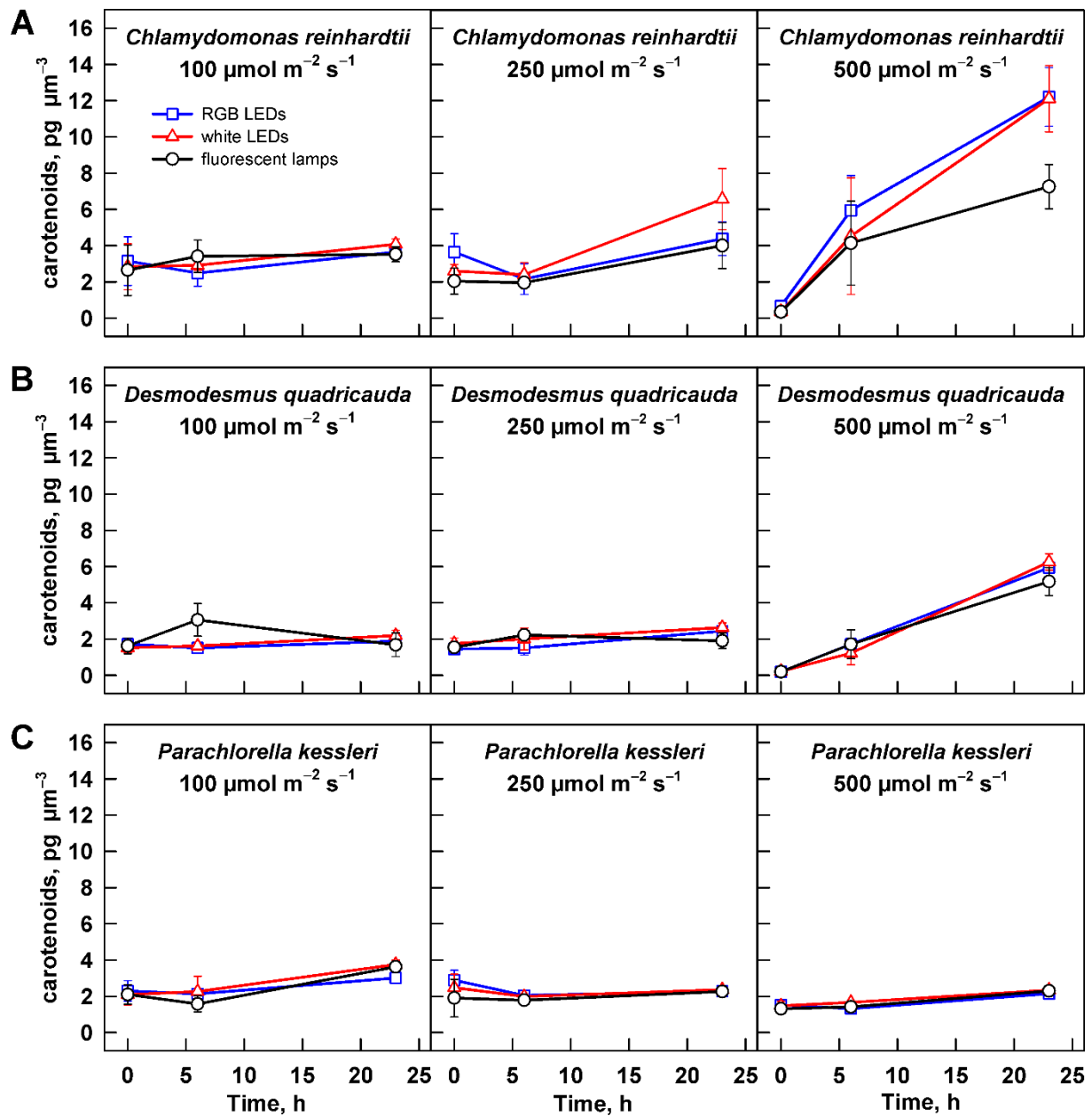


Figure S2 Changes in carotenoid content in the cultures grown at different light intensities. Cultures of (A) *Chlamydomonas reinhardtii*, (B) *Desmodesmus quadricauda*, (C) *Parachlorella kessleri* were grown at incident light intensity 100, 250 and 500 $\mu\text{mol m}^{-2} \text{s}^{-1}$ on different light sources: fluorescent lamps (black circles), RGB LEDs (blue squares) and white LEDs (red triangles). Carotenoid content was normalized to the total volume of the culture at the particular time-point to allow direct comparison between treatments and organisms. Data of three biological replicates are presented as means \pm SE.