**Supplementary Material**

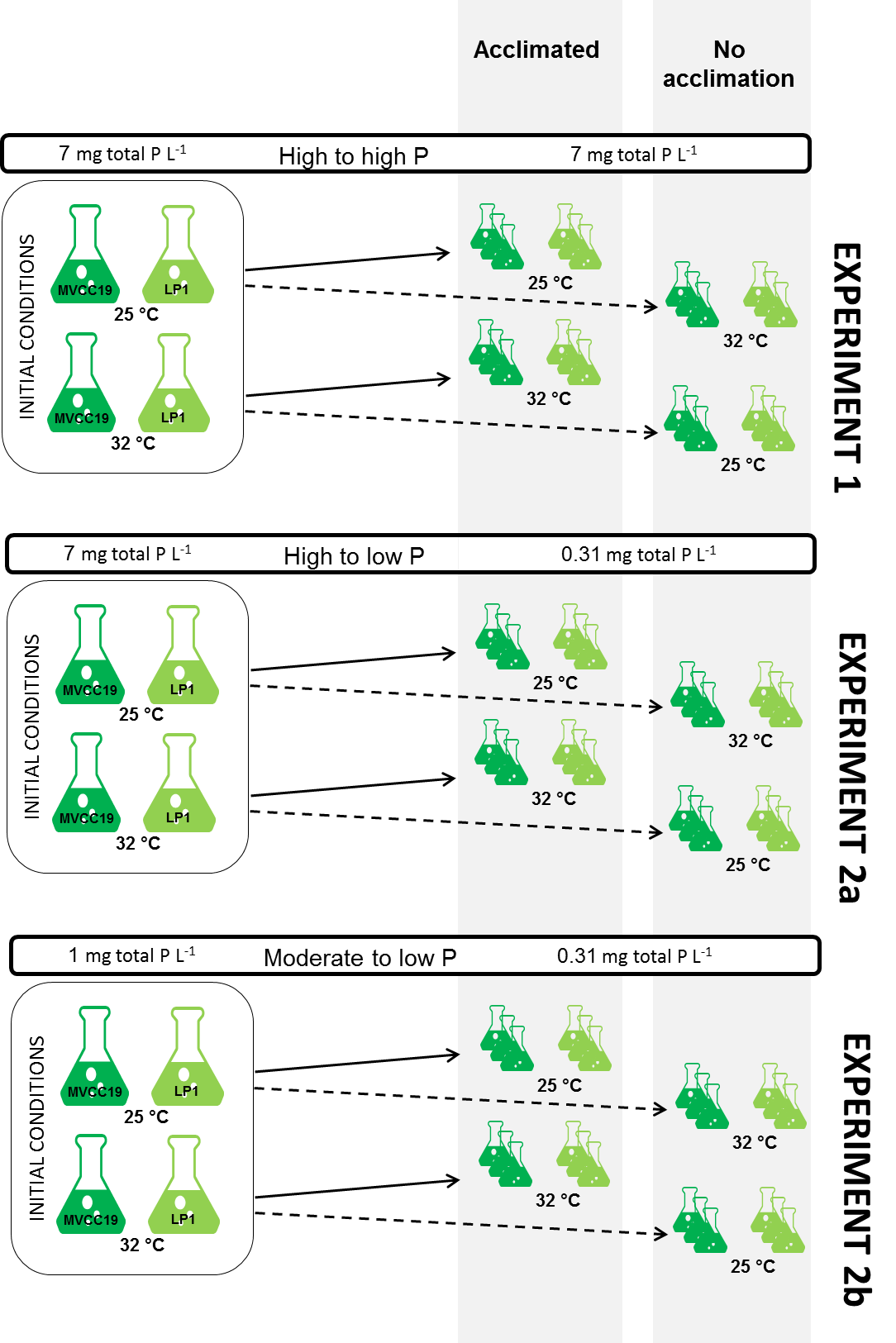
**Article**: Acclimation at high temperatures increases the ability of *Raphidiopsis raciborskii* (Cyanobacteria) to withstand phosphate deficiency and reveals distinct strains responses

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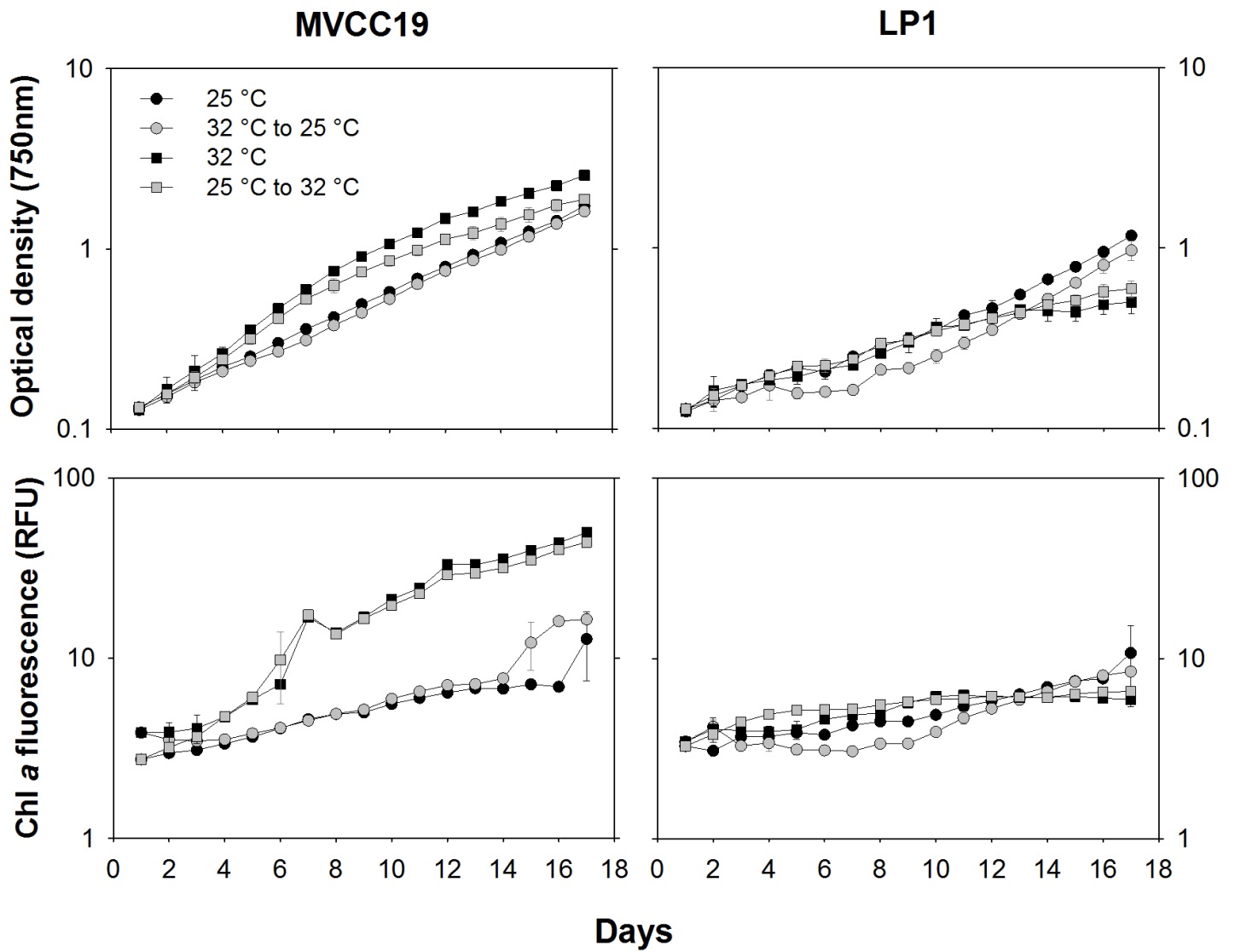
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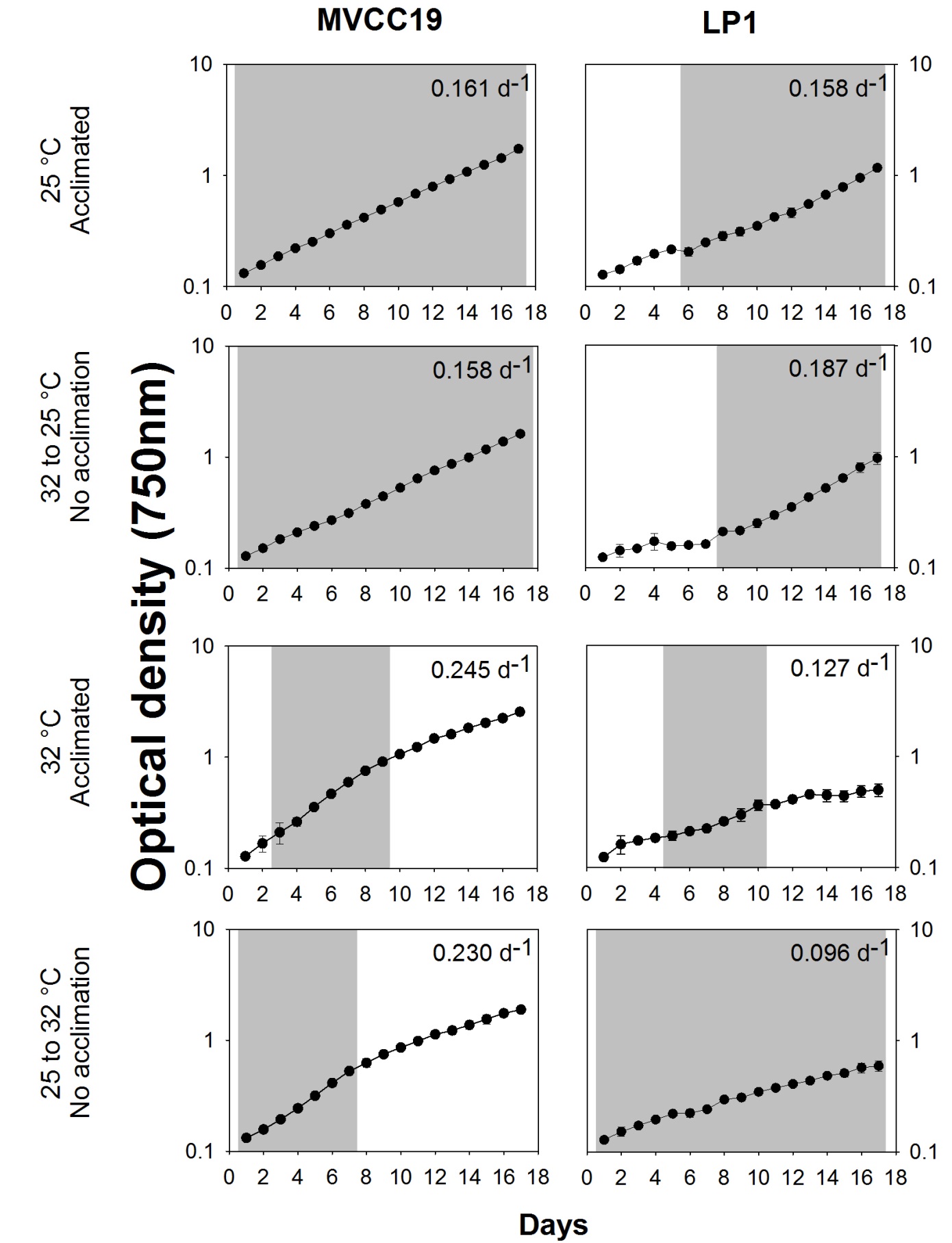
\*Corresponding author email: elenagalvanese@gmail.com



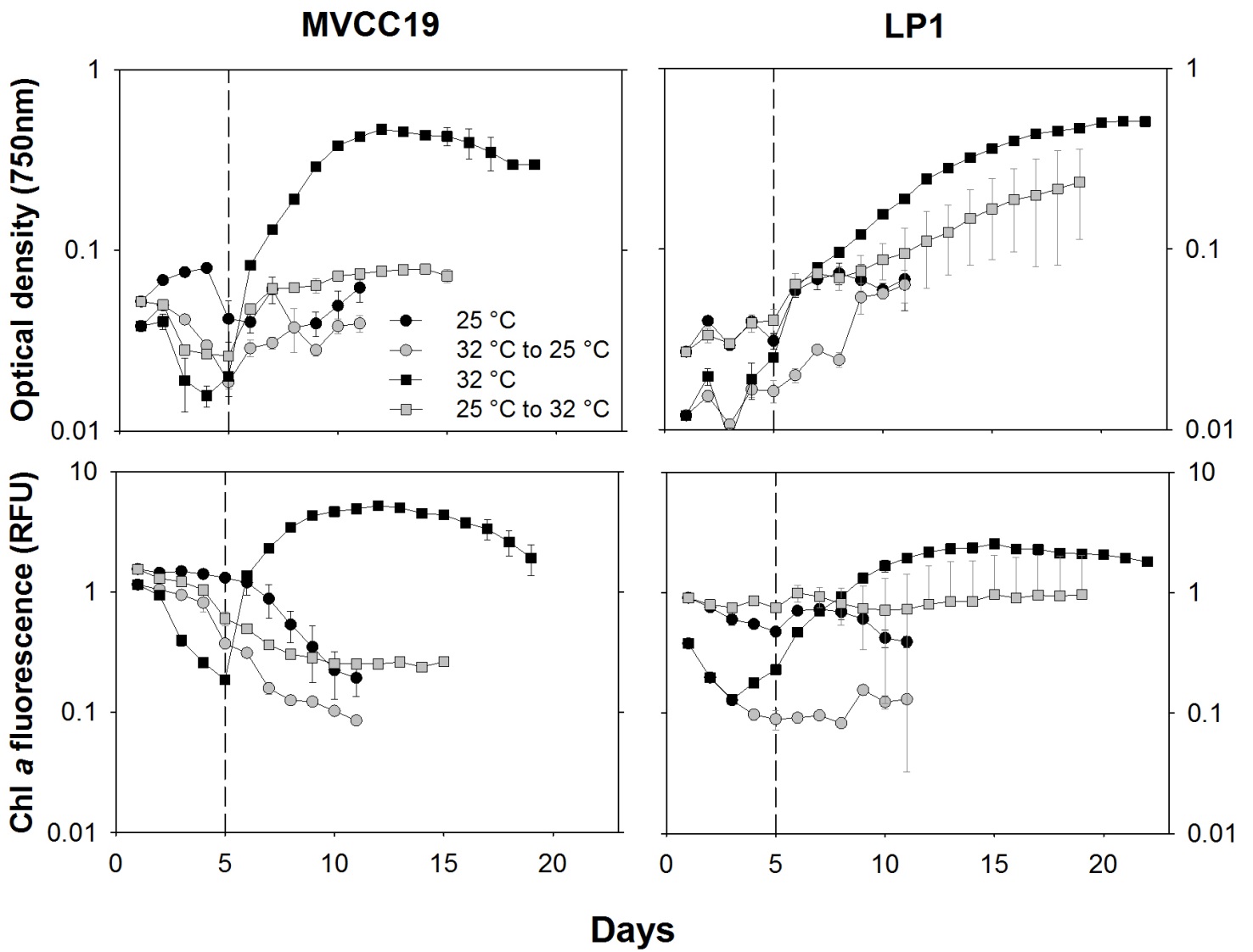
**Figure S1.** Summary of the experimental design described in Material and Methods.



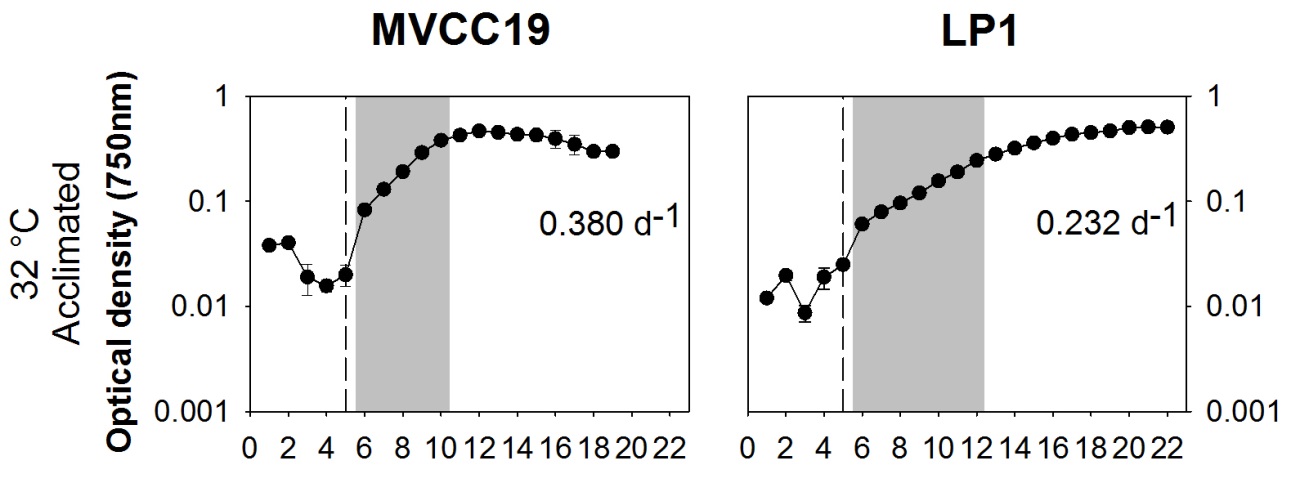
**Figure S2.** Averaged optical density and *in vivo* chlorophyll *a* fluorescence measured during experiment 1 (n=3, ± standard deviation; error bars are smaller than the size of the symbols if not visible). Temperature shifts were performed at time zero.



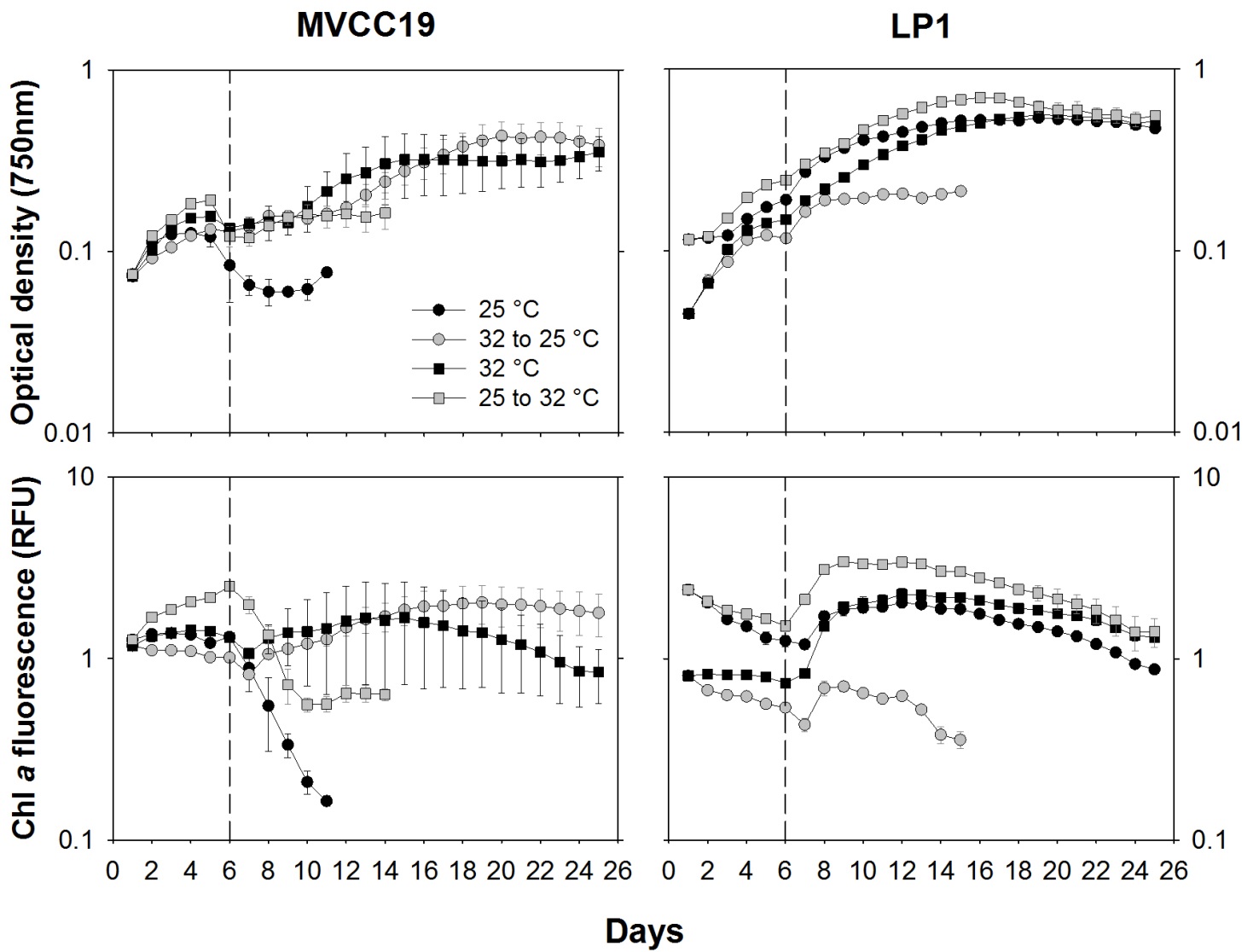
**Figure S3.** Averaged optical density data of experiment 1 (n=3, ± standard deviation; error bars are smaller than the size of the symbols if not visible). Selected days to the calculus of growth rates comprise the grey area. The selection of days was based on linear regression. Corresponding averaged growth rate is shown.



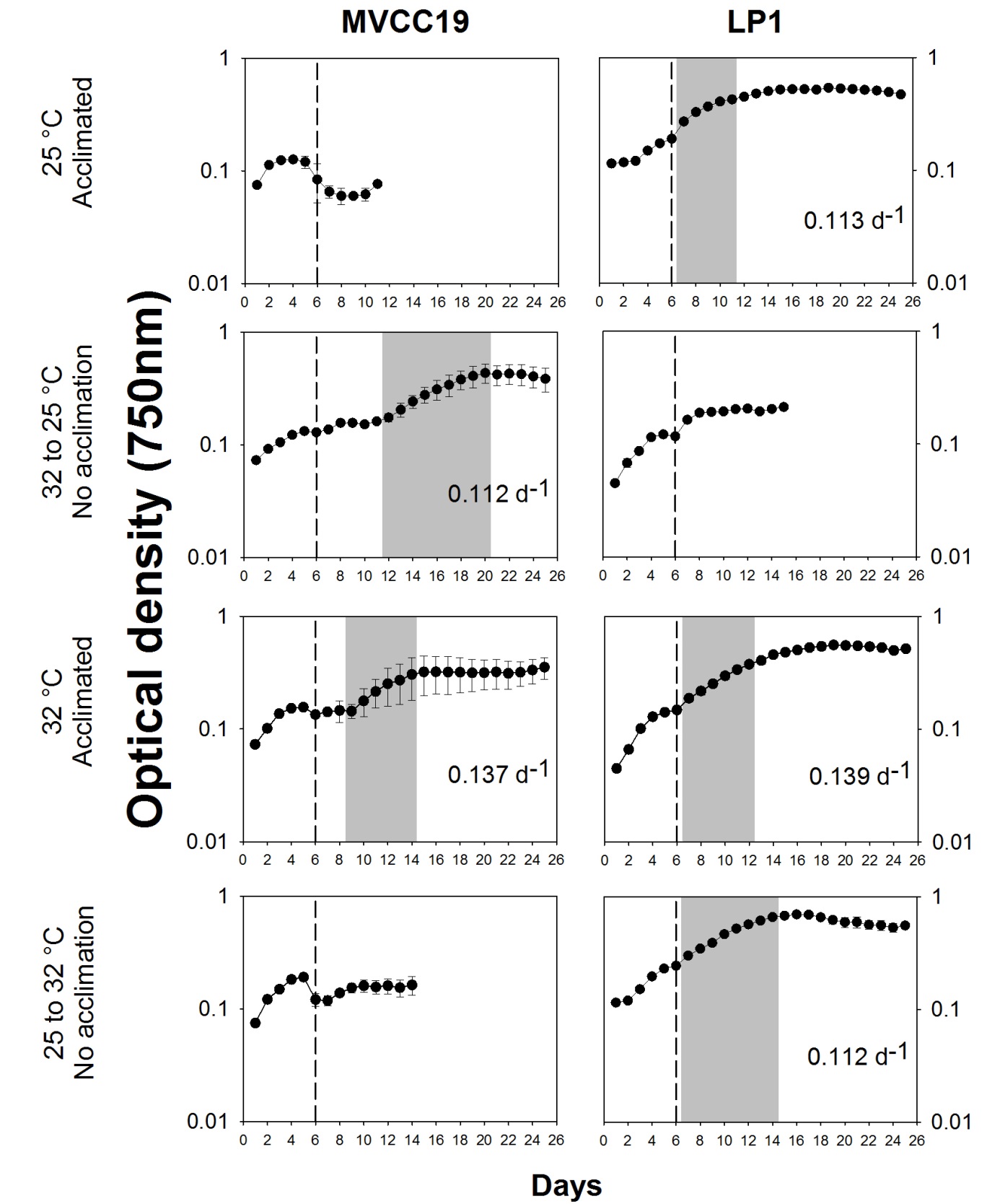
**Figure S4.** Averaged optical density and *in vivo* chlorophyll *a* fluorescence measured during experiment 2a) (n=3, ± standard deviation; error bars are smaller than the size of the symbols if not visible). The dashed line separates the data before and after the 1:1 growth medium renewal. Temperature shifts were performed at time zero.



**Figure S5.** Averaged optical density data of experiment 2a) (n=3, ± standard deviation; error bars are smaller than the size of the symbols if not visible). Selected days to the calculus of growth rates comprise the grey area. The selection of days was based on linear regression. Corresponding averaged growth rate is shown. The dashed line separates the data before and after the 1:1 growth medium renewal.



**Figure S6.** Averaged optical density and *in vivo* chlorophyll *a* fluorescence measured during experiment 2b) (n=3, ± standard deviation; error bars are smaller than the size of the symbols if not visible). The dashed line separates the data before and after the 1:1 growth medium renewal. Temperature shifts were performed at time zero.



**Figure S7.** Averaged optical density data of experiment 2b) (n=3, ± standard deviation; error bars are smaller than the size of the symbols if not visible). Selected days to the calculus of growth rates comprise the grey area. The selection of days was based on linear regression. Corresponding averaged growth rate is shown. The dashed line separates the data before and after the 1:1 growth medium renewal.