

Production and monitoring of biomass and fucoxanthin with brown microalgae under outdoor conditions

Fengzheng Gao^{1,*,#}, Marta Sá^{1,#}, Iago Teles (Cabanelas, ITD)¹, René H. Wijffels^{1,2}, Maria J. Barbosa¹

1 Wageningen University, Bioprocess Engineering, AlgaePARC, P.O. Box 16, 6700 AA, Wageningen, Netherlands

2 Faculty Biosciences and Aquaculture, Nord University, N-8049 Bodø, Norway

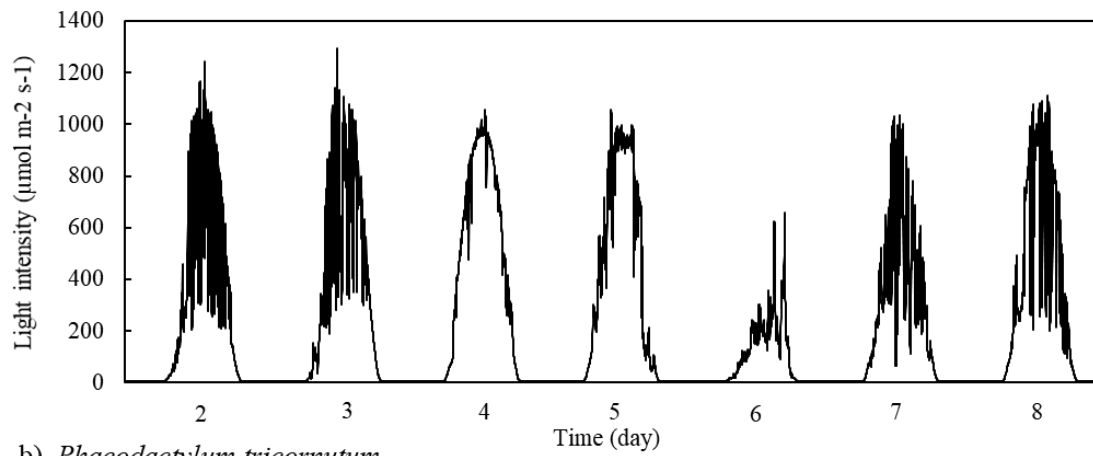
* Corresponding author at: Wageningen University, Bioprocess Engineering, AlgaePARC, P.O. Box 16, 6700 AA, Wageningen, Netherlands

Fengzheng Gao, E-mail addresses: fengzheng.gao@wur.nl; gaofengzheng@outlook.com; Tel: +31317483595

These authors contributed equally to this work.

Supporting information

a) *Tisochrysis lutea*



b) *Phaeodactylum tricornutum*

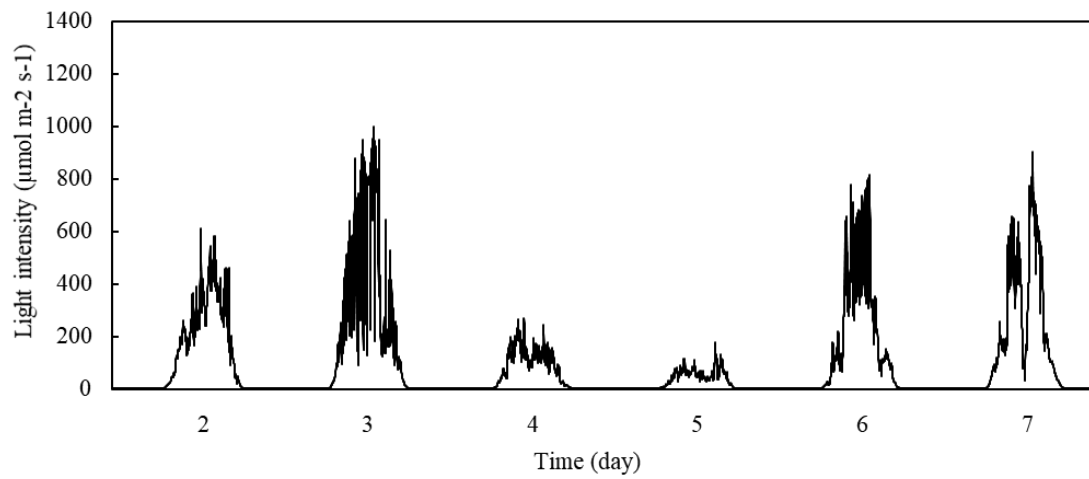


FIGURE S1 Real-time light intensity during the cultivation of *Tisochrysis lutea* (a) and *Phaeodactylum tricornutum* (b). Note: Light intensity was recorded each minute.

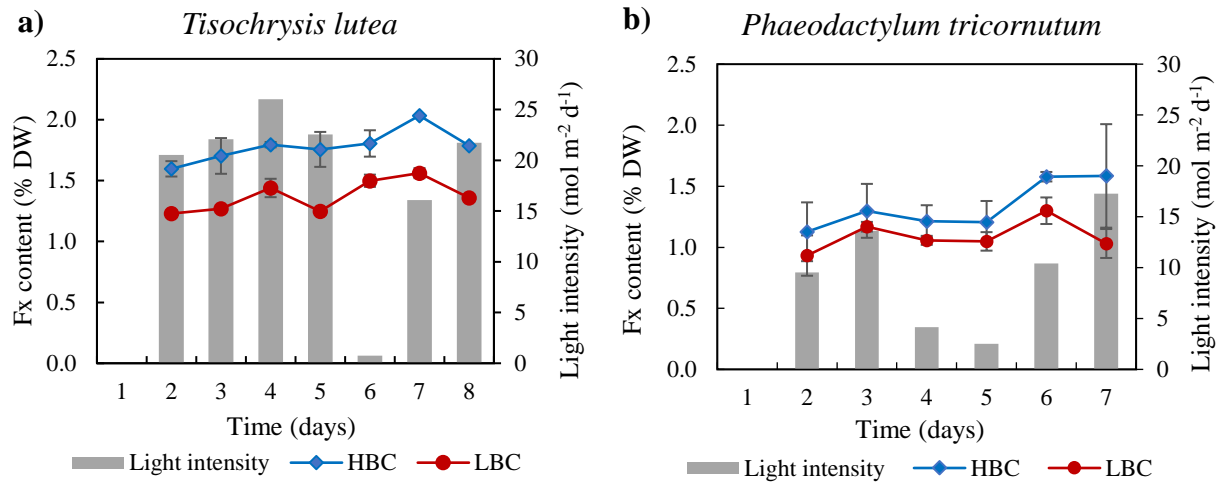


FIGURE S2 Fucoxanthin content (% DW) of *Tisochrysis lutea* (a) and *Phaeodactylum tricornutum* (b). Two cell concentrations were studied: low biomass concentration (LBC) of 0.4 g L⁻¹ DW (diamond, blue), and high biomass concentration (HBC) of 1.1 g L⁻¹ DW (circles, red)