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Authors: Ying Shen, Sha Wang, Shih-Hsin Ho, Youping Xie, Jianfeng Chen



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(All the changes are marked with yellow highlight)

Enhancing lipid production in attached culture of a thermotolerant microalga *Desmodesmus* sp. F51 using light-related strategies

Ying Shen^{1,2}, Sha Wang¹, Shih-Hsin Ho³, Youping Xie^{3*}, Jianfeng Chen^{3**}

¹College of Mechanical Engineering and Automation, Fuzhou University,
Fuzhou 350116, China

²Collaborative Innovation Center of High-End Equipment Manufacturing in Fujian,
Fuzhou 350116, China

³College of Biological Science and Engineering, Fuzhou University, Fuzhou 350116,
China

*Corresponding author: Youping Xie

Tel: +86-591-22866373

Fax: +86-591-22866373

Email: ypxie@fzu.edu.cn

**Co-corresponding author: Jianfeng Chen

Tel: +86-591-22866373

Fax: +86-591-22866373

Email: jfchen@fzu.edu.cn

Highlights

- Efficiency of light related strategies on attached microalgal culture was assessed.
- Light-switching strategy enhanced both biofilm and lipid production.
- A maximum biofilm production of 241.67 g m⁻² was achieved.
- A maximum lipid production of 66.65 g m⁻² was achieved.

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