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Xi Gao, Bo Kong, R. Dennis Vigil

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**Multiphysics simulation of algal growth in an airlift photobioreactor:
effects of fluid mixing and shear stress**

Xi Gao^{1,*}, Bo Kong², R. Dennis Vigil^{1,*}

*¹Department of Chemical & Biological Engineering, Iowa State University, Ames, IA 50011,
United States*

²Ames Laboratory, Ames, IA 50011, United States

**Correspondence to: E-mail: highxixi@gmail.com (X. Gao); vigil@iastate.edu (R. D. Vigil)*

Tel.: +1 515 294 6438

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