



**COLLEGE OF ENGINEERING**  
**Civil & Environmental Engineering**

4105 Seamans Center  
for the Engineering Arts and Sciences  
Iowa City, Iowa 52242-1527  
319-335-5647 Fax 319-335-5660  
[www.cee.engineering.uiowa.edu](http://www.cee.engineering.uiowa.edu)

Hannah Molitor  
4231 Seamans Center  
The University of Iowa  
Iowa City, IA 52242  
[hannah-molitor@uiowa.edu](mailto:hannah-molitor@uiowa.edu)

July 15, 2019

JoVE Editor

Dear JoVE Editor,

We seek to submit our original methods paper, entitled "Microalgae cultivation and biomass quantification in a bench-scale photobioreactor with corrosive flue gases", to *JoVE* for publication.

The subject matter of this manuscript specifically aligns with the goal of *JoVE*, as a detailed protocol for microalgal cultivation and quantification. We are working to improve the biomass productivity of microalgal cultivation systems with corrosive flue gases and wish to share our research protocol with the *JoVE* audience. Our work illustrates the preparation and use of a bench-scale photobioreactor for microalgal cultivation, including the safe use of corrosive gas inputs, and details relevant biomass measurements and biomass productivity calculations.

This manuscript is original work and all authors agree to submit the manuscript to *JoVE*.

Thank you for taking the time to consider our work.

Sincerely,

Hannah Molitor