



SDI Review Form 1.6

Journal Name:	Advances in Research
Manuscript Number:	2013_AIR_7752
Title of the Manuscript:	PRODUCTION OF BIODIESEL FROM MARINE AND FRESHWATER MICROALGAE: A CRITICAL REVIEW
Type of the Article	Review

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	<p>In General, the review is appropriate. The authors sought various information important and relevant to the theme of the work, making the text complete. But when I read the title, I thought of something more critical to obtaining biodiesel from microalgae, and not only the General review of the tema.</p> <p>It is needs to speak more in critical forma, how said the title. Or remove the term "critical" of title.</p> <p>Introduction: Line 63 page 3: "The majority of lipids produced by microalgae have a low degree of unsaturation, making them a good replacement for the current fossil fuels (Singh and Gu, 2010)." ... Dangerous assertion, already depends on the species and the condition to which it was grown. - "transestraficaiton" line 73.</p> <p>- Which table unit 7? Percentage?</p>	<p>Critical has been removed.</p> <p>The sentence has been rewritten.</p>
<u>Minor</u> REVISION comments	<p>Abstract: The words "extractingproteins" line 25, "theglycerol" line 27 e "duringlipid" line 28, needs to be separate.</p> <p>Introduction: - Separate "precipitationcausing" line 44 , "arethe" line 47. Check in all the words which are undue form joints. This happens in many phrases in the text. You also need to revise some words with spelling error throughout the text.</p> <p>Chapter 8</p>	<p>Corrected.</p> <p>These happened during uploading. They were not in the original manuscript.</p>



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	<p>- Fix the equation 1, which had overlapping items.</p> <p>Page 50 line 1052: “China is the first and major producer of biodiesel using lipase as the catalyst, producing 20,000 tons of biodiesel per annum (Du et al., 2008).” Specify the biodiesel: is microalgae? or oleaginous? At the junction of the lines gives the impression which is microalgae...</p> <p>Chapter 10</p> <p>- I believe the chapter that speaks of glycerol is unnecessary, even more why the microorganisms cited are not microalgas. If you keep the chapter, try explores it added the information of glycerine of microalgae, or others applications not explored in text.</p> <p>Conclusion:</p> <p>The conclusion is a summary of ideas of the most important aspects of the text. I think you should focus on the use of microalgae for biodiesel and remember that there are other lipid molecules important in microalgae, in addition to the TAG for the production of biodiesel, as pigment with high added value. Talking about difficulties in obtaining only TAG for making biodiesel is important, although there are various methods of separation.</p> <p>Details on growth ... of CO2 emissions. need not be repeated in conclusion, as I stated in the text.</p> <p>Page 60, line 1245. How can it be improved processing of microalgae? Came the completion of best technique of oil extraction, collection, pré-treatment?</p>	<p>Done.</p> <p>Information added.</p> <p>Done.</p> <p>More information added.</p>
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<u>Optional/General</u> comments	Title: The title of the review speaks of microalgae, and the whole subject of work focuses on the production of biodiesel from microalgae. I think unnecessary talk details about seaweed. suggestion: you can comment briefly on the Brown macroalgae is lipid source. This comment may come in the introduction.	Disagree
	Review: The % of lipids in table 9 is complete? If so, and if possible, the authors could relate to the amount of neutral lipids present in microalgae to enrich the work of important because it is a production of biodiesel. - In chapter 7, could be explored also the financial advantage and disadvantage between the methods of collection and the lipid extraction. What is the most expensive? The cheapest?	Ok
		That will increase the length of already a lengthy paper, plus finances are variable.