



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_13509
Title of the Manuscript:	The Effect of L-Buthionine Sulfoximine on the Cytotoxicity and Interaction of As, Cd, Hg, and Pb on MCF 7 Cell Line
Type of the Article	Short Research Article

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)
Compulsory REVISION comments	<p>Title: The effect of L-buthionine sulfoximine on the cytotoxicity and interactions of As, Cd, Hg and Pb in MCF-7 cell line</p> <p>The authors have studied the influence of endogenous GSH level on cytotoxicity of 4 metals which are known environmental pollutants.</p> <p>There are several shortcomings in this study.</p> <p>1. Treatment with BSO for 24 h is not recommended. 2.5 mM BSO is very high concentration for mammalian cell lines. There was no mention on what basis the duration of treatment and the dose was selected.</p> <p>2. The actual value of GSH content in MCF-7 cells was not shown and therefore the Table 1 has no value. Please show the value in the Results section.</p>	<p>This question was addressed in the materials and methods section.</p> <p>The result was calculated as a percentage of the control. The control cells had a 100% GROWTH BY DEFAULT BECAUSE THEY WERE NOT EXPOSED TO ANY CHEMICALS</p>



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	<p>3. What was the reason to select MCF-7 cell line in this study? Do you think that the cancer cell line is the proper system to study any environmental agent's cytotoxicity? One primary cell like human lymphocytes or mouse bone marrow cells is recommended</p> <p>On the basis of the above mentioned flaws it is difficult to assess the result reported in this Ms.</p> <p>Specific comments</p> <ol style="list-style-type: none"> 1. Very poorly written with so many mistakes. Why fullstop comes before the Reference in the text? Improvement in English is required. 2. I could not find Figure legends. Figures are also not clear. What do you mean by Arbitrary Unit. 3. I could not find the acknowledgement section. 	<p>Cancer cells are always used as models for toxicity studies because it is easy to grow.</p> <p>This error has been corrected throughout the paper</p> <p>Figures and legends have been included in the manuscript</p> <p>We did not include an acknowledgement section as we did not think it necessary.</p>
<u>Minor</u> REVISION comments	<p>competing interest:-</p> <p>Authors did not mention anything about this</p>	
<u>Optional/General</u> comments		