



**SDI Review Form 1.6**

Journal Name:	<a href="#">Journal of Applied Life Sciences International</a>
Manuscript Number:	Ms_JALSI_44720
Title of the Manuscript:	Comparative Effects of Spirulina and Vitamin C Against Arsenicosis in Rat
Type of the Article	Original 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>)

**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)
<b>Compulsory</b> REVISION comments	<p>Line 182-187: You are not explaining your results, you should add more details. For example why is it interesting to have an increase of total leukocyte count with group T2, T3 and T4 in comparison with group T1?</p> <p>Line 187: "they found the WBC level decreased when rat were given higher dose of arsenic and that might be due to the apoptotic effect of arsenic on plasma cells. » Can you explain more details on the apoptotic effect of arsenic, it has not been introduced.</p> <p>In the same way, line 200: what does at mean if haemoglobin (Hb) increase in group T4, t3 in comparison with group T1?</p>	<p>Both vitamin C and Spirulina increase the granulocytes and agranulocytes (leukocytes) those are responsible for providing immunity to the body. Arsenic decreased total leukocyte count by altering phagocytic activity.</p> <p>Arsenic leds to malfunctioning of enzymatic system and denaturation of cell organelles. Arsenic alters plasma membrane permeability and/or increased mechanical fragility. That's why apoptosis occur on plasma cells of rats due to the adverse effect of arsenic.</p> <p>Besides this, vitamin C and Spirulina synthesize white blood cells in rats. Arsenic creates a barrier around the blood by making a thin layer. That's why haemoglobin contents decreases with the advancement of the arsenic treatment.</p>
<b>Minor</b> REVISION comments	<p>Line 47 "why "thankuni "? Is there any relation between spirulina and thankuni ????? Thankuni has been used at some point during your study?</p> <p>Line 50 - 51: you talk about vit c (vitamin C or ascorbic acid) enhance the cytotoxicity of arsenic trioxide (ATO). But just before you said vit c is healing and antioxidant??????</p> <p>.....You're not explaining how Vit c is related to arsenic or spirulina.</p>	<p>Thankuni and ATO has been erased from the main part of the manuscript. It was a typing mistake.</p>
<b>Optional/General</b> comments	<p>You should add more details about your studies in introduction: You are not explaining your aim in this study: why are you interested by combination arsenic + spiruillin and vit c for example</p> <p>And in general, You are not explaining any of your results, you should add more details</p>	<p>We will follow through the reviewer comments</p>



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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<u><i>(If yes, Kindly please write down the ethical issues here in details)</i></u>	No