



**SDI Review Form 1.6**

Journal Name:	<a href="#">Advances in Research</a>
Manuscript Number:	2014_AIR_9161
Title of the Manuscript:	<b>Environmentally Favourable and Unfavorable Bacteria</b>
Type of the Article	<b>Review Article</b>

**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)
<b>Compulsory</b> REVISION comments	<p>The manuscript "Environmentally Favourable and Unfavorable Bacteria" First of all, english used is not proper. Many sentences are not conveying proper meaning. There is lack of flow in the contents. The author(s) should give a good discussions than just merely writing the results obtained by the researchers in the referenced manuscripts. The section 2, saprophytic bacteria is not described well and the examples given are not at all correct. In the section 5, Antibacterial lectins, the author(s) has given the results of various researches carried out throughout the worls but are not discussed properly. The author(s) have used several non-standard abbreviations whose full forms are not described anywhere in the manuscript. The conclusion is not written well. The author(s) have attempted to give a brief each about the three classes of bacteria namely saprophytic, symbiotic and parasitic bacteria, and also about Antibacterial lectins and the title does not correctly suit it, though they have attempted to give a few examples for the role of bacteria in the envionment. Few other corrections that need to be made:</p> <p>Line 9-10 – Reframe the sentence</p> <p>Line 12-13 does not convey the meaning properly</p> <p>Line16 – use a more appropriate word for 'chapter'</p> <p>Line 31 - Reframe the sentence</p> <p>Line 35 - Give proper reference for the sentence</p> <p>Line 38 – Remove 'a' from the sentence</p> <p>Line 39 - Reframe the sentence</p> <p>Line 41 – Replace 'and' with 'are'</p>	<p>The manuscript was revised and many sentences were reframed.</p> <p>In the section 2, the importance of saprophytic bacteria to environment was reframed</p> <p>In the section 5, all abbreviations was previously described and checked before been used.</p> <p>The conclusion was rewritten with some modifications.</p> <p>The title was changed to: <b>"Saprophytic, Symbiotic and Parasitic bacteria: Importance to Environment, Biotecnological Applications and Biocontrol"</b></p> <p>Line 9-10: The sentence was rewritten to: <b>"Saprophytic bacteria, which are the major decomposers of organic matter, can be applied in treatment of metalliferous mine, radioactive environmental wastes, biodiesel production, among others."</b></p> <p>Line 12-13: The sentence was rewritten to: <b>"However, some bacteria are able to cause diseases (i.e, parasitic bacteria also referred to as pathogens)"</b></p> <p>Line16: "chapter" was changed to <b>"review"</b></p> <p>Line 31: the sentence was reframed: <b>"There are over 3.6 billion years bacteria are present on Earth, colonizing almost every possible occurrence of life."</b></p> <p>Line 35: a reference was given: "The number of bacterial species that have been described is low</p>



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	<p>Line 61 - Reframe the sentence  Fiure 2: Correct the spelling for nitrifying and denitrifying bacteria  Line 154 – Reframe the sentence to give its clear meaning  Line 162 – Reframe the sentence to give its clear meaning  Line 172 – Reframe the complete sentence to give its clear meaning  Line 172 – Figure 3 does not show relevance to the description in this line  Line 180-181 – Give proper reference and give suitable examples  Line 195 – Sentence is ended without complete it  Line 200 – Reframe the sentence  Line 204 – Give suitable examples and also add proper reference  Line 227 – Remove ‘in’ which is adjacent to plants  Line 232 – Use more appropriate word for ‘in damage’  Figure 4 – Not relevant  Line 261 - Reframe the sentence to give its clear meaning  Line 292 – Give reference  Line 377 – Replace ‘to’ with ‘for’  Line 381 – Give a suitable example for Simuliidae family</p>	<p>(~7,000) in relation to the millions of bacteria that have been predicted to reside on Earth [1]”  Line 38: ‘a’ from the sentence was removed  Line 39: The sentence was reframed: “Microbial communities have vast importance to the ecosystem. They are important components of the forest ecosystem since they facilitate organic matter decomposition and nutrient cycling in the soil [2]”  Line 41: the sentence was reframed: “Free-living bacteria are of importance in agriculture as they abound in the rhizosphere”  Line 61: looses was changed to “losses”  Figure 2: the spelling for nitrifying and denitrifying bacteria was corrected  Line 154: the sentence was rewritten: “Other bacteria can synthesize many compounds with positive effect on plants such as siderophores, chelating agents which has more affinity to metals than plant siderophores and can solubilize and sequester iron from the soil providing it to plant cells; antibiotics, which antagonize phytopathogenic fungi and pathogenic bacteria; phytohormones, including auxins and cytokinins, enhancing various stages of plant growth; and enzymes that can modulate plant growth and development [23, 24, 25].”  Line 162: the sentence was rewritten: Glick. [23] reported that the symbiotic association of the bacterium <i>Enterobacter cloacae</i> in the roots of the plant <i>Brassica campestris</i> led to an increase in the number of seeds that germinated and the amount of biomass that the plant was able to attain due to reduction in the level of ethylene, an inhibitor of root elongation.</p>
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		<p>Line 172: the sentence was reframed: "A group of bacteria called microbial flora (Figure 3) are able to beneficially affect the host animal with contributions to nutrition, health and development. Microbial flora can secrete vitamins; participate in the synthesis of proteins and nucleic acids; and act in the digestion of carbohydrates."</p> <p>Line 180-181: the sentence was reframed: "Probiotics in aquaculture of genus <i>Lactobacillus</i> can prevent pathogens proliferating in the intestinal tract, on the superficial structures, or in the water [28]."</p> <p>Line 195: the sentence was reframed: "Rouse. [33] reported that the lactic acid bacteria <i>Pediococcus pentosaceus</i> produced antifungal peptides (not completely characterized), with potential applications in the food industry to prevent fungal spoilage of food."</p> <p>Line 200: all sentence was reframed: "Some bacteria may play an important role in the control of harmful algae blooms. Bacteria such as <i>Pedobacter</i> spp can act on many species of microalgae of red tide plankton such as, for example, <i>Microcyctis aeruginosa</i> [34]. Further studies will provide new insights into its role in water environment with prospects to use these algicidal bacteria as microbial pesticides."</p> <p>Line 204: the sentence was reframed: "Bacteria of microflora from mollusks such as bivalve are important in the digestive process, metabolism and metamorphosis [35]. Bacteria in the aquatic environment are used as food by adults and larvae of bivalve, providing nitrogen and carbon and recycling organic and mineral matter</p>
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		<p>released by <b>these aquatic organisms</b>. <b>Furthermore</b>, marine bacteria, <b>such as cyanobacteria</b>, excrete various substances, including amino acids, carbohydrates, and vitamin B12.”</p> <p>Line 227: “in” was removed Line 232: “in damage” was changed to: “<b>at a cost price of</b> millions of dollars annually” Figure 4 and 5: The position of Figure 4 and 5 was corrected. They were exchanged. Line 261: the sentence was reframed: “<i>Acidovorax citrulli</i> is the bacterial causal agent of bacterial fruit blotch, a devastating disease of melon (<i>Cucumis melo</i>) and other <b>plants from the same family</b>. <b>Its</b> destructive potential stems from the fact that, under favorable conditions <b>to bacterial growth</b>, infection spreads rapidly throughout the field [44].”</p> <p>Line 292: A reference was given: “Lectins can also promote agglutination of bacterial cells [47].”</p> <p>Line 377: “to” was changed to “for” Line 381: the sentence was reframed: “Insects such as <i>Aedes aegypti</i> (<b>of the Culicidae family</b>) - <b>vector of dengue and yellow fever-</b> and <i>Simulium spp.</i> (<b>of Simuliidae family</b>), transmitters of filariasis, are included in the Diptera order.”</p>
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<b><u>Minor</u></b> REVISION comments	-	
<b><u>Optional/General</u></b> comments	Environmentally Favourable and Unfavourable bacteria becomes a broader title and hence one can find more relevant research articles which can help the authors to give more suitable and better discussions. English is also not correct.	We give a brief discussion about the three classes of bacteria namely saprophytic, symbiotic and parasitic bacteria, and also about biocontrol and the title does not correctly suit it, as suggested by reviewers. So we changed the title to: " <b>Saprophytic, Symbiotic and Parasitic bacteria: Importance to Environment, Biotechnological Applications and Biocontrol</b> ".