



SDI Review Form 1.6

PART 1:

Journal Name:	British Microbiology Research Journal
Manuscript Number:	MS: 2012/BMRJ/2302
Title of the Manuscript:	Population Variance and Diversity of Endophytic Bacteria in Soybean (Glycine max (L) Merrill) Cultivated in Vertisol.

General guideline for Peer Review process is available in this link:

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

- This form has total 9 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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	Materials and Methods: 1. How many samples were collected? How they were collected? Healthy plants from infected field or farmer's field? Should be mentioned 2. Authors mentioned it is from vertisol. Then, characteristics of vertisol in that area have to be indicated. 3. Identification of endophytes is highly important: It is lacking in the manuscript, what are all the tests they conducted? Table may be included for the different tests. Results and discussion: 1. Authors mentioned - endophytic population declines both in quantity and variety as plant aged. What variety declines? 2. How much <i>Pseudomonas</i>, <i>Bacillus</i>., etc could be isolated by the authors? Which genera are dominated over other genera? Whether <i>Enterobacter</i> and <i>Xanthomonas</i> are pathogenic or avirulent strains? 3. Accordingly discussion should be rewritten. In first conclusion:	Yes the part is incorporated. The soil characterization was not done.



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	After maturity, population declines significantly both in number and <u>type of bacteria colonizing the soybean</u> – lacking in the results and discussion Both the conclusion should be same. Reference: Rosenblueth and Martinez, 2006; - not mentioned in the text Pimentel et al., 2009; Holt et al 1994 - not mentioned in the reference section	
<u>Minor</u> REVISION comments	Throughout the manuscript, correct the English by native speaker Title: Ok Abstract: Methodology – Use the grammar and sentence correctly. Introduction: The information on endophytes and their role, distribution supported by literature are sufficiently mentioned.	Yes the corrections are made.
<u>Optional/General</u> comments	Isolation of endophytes and its exploitation for the various functions is gaining momentum nowadays. The authors wrote the manuscript on soybean endophytic bacteria, population variance and its diversity. This article will be highly useful for the readers to know the bacterial endophytes and its distribution in soybean. However, identification of the isolated bacteria and its population at genera level, its influence on the host characters are highly essential to publish this article.	Currently, the isolates obtained are being processed for screening of plant growth promotion and biocontrol properties and the efficient isolates will be identified by molecular techniques.