

## Review Form 1.6

Journal Name:	<a href="#">Asian Journal of Biochemistry, Genetics and Molecular Biology</a>
Manuscript Number:	Ms_AJBGMB_86354
Title of the Manuscript:	Identification of Nosema Sp. Paenibacillus larvae and Melissococcus plutonius by PCR in Benin's apiaries.
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:

(<https://www.journalajbgmb.com/index.php/AJBGMB/editorial-policy> )

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**PART 1: Review Comments**

	<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>Compulsory</b> REVISION comments	<p><b>General comments:</b></p> <p>The English language needs to be improved overall in the manuscript.</p> <p>There are many grammatical mistakes that need to be fixed</p> <p>The teams need to be defined first and then abbreviated throughout the manuscript</p> <p><b>Specific comments</b></p> <p><b>Abstract:</b></p> <p>Some grammatical mistakes need to be corrected, I corrected some of them. Authors must fix it.</p> <p><b>Keywords:</b></p> <p>I suggest to authors to put alphabetically order</p> <p><b>Introduction:</b></p> <p>Also, in certain localities, a decrease in the health of the population and the yield of the colony has been observed, with tired bees and even the disappearance of certain colonies (Cite references for this sentence)</p> <p>It has also been noted that waste and excrement inside some hives and around the entrance are tell-tale signs of Nosema and foulbrood. Nosema is generally considered to be one of the most destructive diseases of adult bees, affecting workers, queens, and also</p>	

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	<p>males (Cite reference too)</p> <p>The parasite forms resistant spores that remain viable for long periods of time (Cite reference)</p> <p>Delete the comma between the brackets and the reference (Nosema sp.), [10]</p> <p>Nosema exists in two species: <i>N. apis</i>, ubiquitous, a parasite of the European honey bee, <i>Apis mellifera</i>, an obligate intracellular parasite, which cycles within the host cell and occurs in two forms: the spore, the infective agent, and the vegetative form. <i>N. ceranae</i> is a parasite of the Asian honeybee, <i>Apis cerana</i>, and of <i>A. mellifera</i>. <i>Nosema ceranae</i> has been detected in different geographically separated populations of <i>Apis mellifera</i> in Europe, South and North America, and Asia (Too long sentence which is confusing), I suggest to authors to rewrite it.</p> <p>Bees can die within 8 days of exposure to <i>Nosema ceranae</i>. The pathogenic effects of <i>N. ceranae</i> on <i>Apis mellifera</i> colonies are not fully known. <i>N. ceranae</i> is thought to be involved in the weakening of bee colonies in the presence of other stress factors (Cite reference)</p> <p>It is now thought that both <i>N. apis</i> and <i>N. ceranae</i> are widespread worldwide and honeybees are also co-infected with both species (Cite reference)</p> <p>Field diagnostic methods are based on observation of symptoms in the colony but the spores produced by the two <i>Nosema</i> species are very similar in shape and can only be differentiated with difficulty by the conventional light microscopy method (Cite reference)</p>	
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**MATERIAL AND METHODS**

Why I cannot see the ethical approval or welfare guideline for this experiment.

The source of the QIAGEN kit must be mentioned in the materials and methods section including the company, city, and the country

The DNA extraction protocol must be mentioned in detail so that can be reproduced elsewhere

**Table 1:** Sequences of primers for *Nosema Sp.*, *M. plutonius* and *P. larvae*. The accession number of the gene must be mentioned (GenBank Number)

**Results:**

Table 4: Chi\_2 test of independence. This table is just copied and past, the author should create a new table and present their data accordingly.

Why the word in column 5 is not written in English? (**Significativitie**)

**Discussion:**

Authors should compare their findings with previous studies and justify why they agree or disagree

**References:**

Reference No: 1, 13, and 17 are too old, I suggest to authors cite recent references

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<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

**PART 2:**

	<b>Reviewer's comment</b>	<b>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>
<b>Are there ethical issues in this manuscript?</b>	<i><b>(If yes, Kindly please write down the ethical issues here in details)</b></i>	

**Reviewer Details:**

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