

Name:	<a href="#"><u>UTTAR PRADESH JOURNAL OF ZOOLOGY</u></a>
Manuscript Number:	Ms_UPJOZ_4504
Title of the Manuscript:	Entomopathogenic Fungi: Dual Role in Insect Control and Plant Disease Management
Type of the Article	Review Article

#### **PART 1: Comments**

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	<p>This review article provides a comprehensive summary and analysis of Entomopathogenic fungi (EPF) as biocontrol agents, highlighting their pivotal role in maintaining ecological balance. Biological control of plant pests and pathogens offers a sustainable approach to preserving soil fertility, environmental health, and mitigating the detrimental effects of chemical pesticides on crops.</p> <p>Notably, this review underscores the dual functionality of EPF, elucidating their potential to control insect pests and plant pathogens.</p> <p>Furthermore, the article identifies key research gaps that necessitate attention to optimize the utilization of EPF in agricultural systems, thereby enhancing their efficacy and sustainability.</p>	ok
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	

Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Yes	
Is the manuscript scientifically, correct? Please write here.	Yes Only minute correction, in introduction section Belousova <i>et.al.</i> , 202 change into Belousova <i>et.al.</i> , 2021.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	<p>No</p> <p>To enhance the credibility and validity of the article, recommend adding relevant references to support the claims made in several sections.</p> <p>Specifically, references are needed in the following areas:</p> <ul style="list-style-type: none"> <li>- Section "<b>Mechanisms of Infection in Insect Hosts</b>": Please add references to support the statements made in the <b>second half of this paragraph</b>.</li> <li>-Similarly, second half of these Sections: <ul style="list-style-type: none"> <li>- Life Cycle and Environmental Adaptability</li> <li>- Role of EPF in the Ecosystem</li> <li>- Compatibility of EPF with Other Biological Control Agents</li> <li>- Genomic and Molecular Insights into EPF Mechanisms</li> <li>- Environmental and Climatic Factors Affecting EPF Efficacy</li> <li>- Advancements in Delivery Systems for Precise Applications</li> </ul> </li> <li>- First half of sections: <ul style="list-style-type: none"> <li>- Mechanisms of Action Against Plant Pathogens</li> <li>- Case Studies Highlighting Dual Benefits in Crop Protection</li> </ul> </li> </ul> <p>- Additionally, please provide references for the following</p>	

	<p>subsections, which currently lack citations:</p> <ul style="list-style-type: none"> <li>- <b>Modes of Action Against Insect Pests: 'Penetration and Proliferation Within Insect Bodies'</b></li> <li>- <b>Key Fungal Species Used in Pest Control</b></li> </ul> <p>Please ensure that the added references are peer-reviewed and up-to-date, and that they are properly formatted according to the journal's style guidelines.</p>	
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<b>Optional/General</b> comments	<p><b>Optional -</b></p> <p>Table containing commercially available EPF and their target pest</p> <p>A diagram or flow chart of mechanism of pest and plan pathogen control by EPF</p>	

## **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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	