

Review Form 3

Journal Name:	Journal of Advances in Microbiology
Manuscript Number:	Ms_JAMB_127109
Title of the Manuscript:	A review on Role of Root Exudates in Shaping Plant-Microbe-Pathogen Interactions
Type of the Article	review

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PART 1: Review Comments

Compulsory REVISION 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>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript provides an in-depth review of root exudates and their role in plant-microbe-pathogen interactions. It is highly relevant to the scientific community, especially in the context of sustainable agriculture, as it highlights how plant root exudates can enhance nutrient acquisition, promote beneficial microbes, and defend against pathogens. This review brings together current research and presents new avenues for using root exudates in agricultural practices, including biofertilizers and pest management. I find this manuscript valuable because it combines both theoretical insights and practical applications, making it a useful resource for researchers and practitioners alike.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title is appropriate as it reflects the content of the manuscript well.</p>	
<p>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.</p>	<p>The abstract is comprehensive and clearly summarizes the key points of the manuscript. However, it could be improved by explicitly mentioning the potential applications of root exudates in developing biofertilizers and integrated pest management strategies. Adding these points will help the reader understand the practical significance of the review.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure of the manuscript is appropriate, with clear subsections that cover all essential aspects of the topic, including root exudate composition, microbial interactions, pathogen defense mechanisms, and their relevance to agriculture. The manuscript flows logically, making it easy to follow the discussion.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>The manuscript is scientifically robust and technically sound. The review is well-supported by current literature, and the author demonstrates a deep understanding of the topic. The use of advanced analytical techniques to study root exudates and their role in plant-microbe interactions is thoroughly discussed. The manuscript provides a balanced view of the biological mechanisms and their agricultural applications, making it a valuable resource for researchers in the field. Also author must add graphic or photo.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p>	<p>In addition to the comprehensive and recent references included, I suggest adding the following reference that explores plant-microbe interactions and secondary metabolites, which is relevant to the discussion of root exudates:</p> <ul style="list-style-type: none"> • Çetiz, M. V., & Memon, A. (2021). Effect of the plant-microbe interaction on secondary metabolites. <i>Turkish Journal of Agriculture-Food Science and Technology</i>, 9(2), 281-287. This reference adds valuable insights into the influence of plant-microbe interactions on secondary metabolites, which is an essential part of the mechanisms involved in root exudate formation and microbial interactions. 	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language quality is generally suitable for scholarly communication. However, some sentences are long and could be rewritten for clarity. A review of sentence structure and grammar could help improve readability.	
Optional/General comments	Overall, the manuscript is well-written and covers a highly relevant topic in the field of plant-microbe interactions. The detailed analysis of root exudates' role in pathogen defense, microbial recruitment, and nutrient cycling is particularly noteworthy. Including visual aids, such as diagrams or figures, could further enhance the manuscript by providing a clearer understanding of complex processes.	

PART 2:

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

Reviewer Details:

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