Review Form 3

Journal Name:	**Asian Journal of Biotechnology and Bioresource Technology**
Manuscript Number:	**Ms_AJB2T_121076**
Title of the Manuscript:	**SIGNALING MOLECULES IN PSEUDOMONAS AERUGINOSA RESPONSE TO ANTIBIOTICS AT SUB-INHIBITORY CONCENTRATIONS**
Type of the Article	

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
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.	**The manuscript starts with the promise to elaborate on interplay between number of signal molecules and the antibiotic at sub inhibitory concentration that seems interesting. But this claim was not justified with data. Manuscript also conclude that signalling molecules are synthesized in response to antibiotic susceptibility pattern at sub inhibitory concentration, this claim is also not justified and contrary to this there are many references in the literature that signalling molecules are primarily produced for regulation of phenotype and genotypes. Manuscript is poorly written, lacks clarity and experimental design is not very sound.**	
Is the title of the article suitable? (If not please suggest an alternative title)	**Title is misleading, as interplay is not proven.**	
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.	**Abstract is ok.**	
Are subsections and structure of the manuscript appropriate?	**Yes, the structure of the manuscript is fine.**	
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.	**-The identification of isolates at molecular level (16 S rRNA sequencing) is good approach -The GC-MS characterization of signal molecules seems good. - The concept of interplay between diversity of signal molecules and sub-inhibitory concentration of antibiotic is something which is new and interesting. However, more experiments are needed to establish the connection.**	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	**References are ok**	

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	• **Does single bacterial strain produce all 4 signal molecules mentioned in case of catheter isolates?** • **Why only one isolate from each sample is used for biochemical analysis and other characterization? Similar looking bacteria may belong to different genera.** • **What about other bacteria present on the site of sample collection? How the authors differentiate these from Pseudomonas before characterization? If other bacteria is present, what about their numbers?** • **Antibiotic susceptibility data is missing. Also, there is no information about the sub-inhibitory concentration.** • **AHL production was studied from cell suspensions that were recovered from antibiotic susceptibility by disk diffusion technique, this statement is very confusing.** • No Proper discussion on phylogenetic analysis is done. • Some grammatical mistakes are present. • Some spelling mistake also present • Some references are not in same format.	
Optional/General comments	• Poor writing style • Repetitive information about quorum sensing system in Pseudomonas aeruginosa, in introduction portion. • Role of QS inhibitors are not elaborated.	

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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**Vibhay Nath Tripathi**
Department, University & Country	**Guru Ghasidas Vishwavidyalaya, India**