

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_120812
Title of the Manuscript:	MOLECULAR CHARACTERIZATION OF GROUNDNUT BUD NECROSIS VIRUS (<i>Orthospovirus arachinecrosis</i>) CAUSING NECROSIS DISEASE OF BLACKGRAM FROM KRISHNA DISTRICT OF ANDHRA PRADESH.
Type of the Article	

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Review Form 3

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>=Symptoms of necrosis disease of blackgram include severe downward curling and twisting of leaf lamina, veinal necrosis, petiole necrosis, bud necrosis, and necrotic streaks on the stem. =Infection at early growth stages of blackgram lead to plant death, while surviving plants exhibited stunted growth with a significant reduction in pod yield. GBNV-BG isolate was maintained in pure form on cowpea cv. C-152, resulted in chlorotic and necrotic local lesions on primary leaves at seven days post inoculation. =The pathogenicity of GBNV on blackgram (LBG-645) was further confirmed by artificial sap inoculation. Amplification of coat protein gene of GBNV was confirmed through RT-PCR using gene-specific primers, produced an amplicon of 800 bp. =Sequence analysis of coat protein gene revealed that the present study isolates OQ683310 and OR295403 shared sequence identity of 98.0 % and 99.3 % respectively at nucleotide level, with other isolates in the NCBI database. =The phylogenetic analysis of the coat protein gene revealed that the isolates under this study were closely linked with GBNV tomato isolate from Tamil Nadu (MN718651 and MZ505083).</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of the article is suitable</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 of the article is comprehensive</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Subsections and structure of the manuscript are appropriate</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 correct</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -</p>	<p>The references are sufficient and recent</p>	

Review Form 3

<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>English quality of the article is suitable for scholarly communications</p>	
<p>Optional/General comments</p>	<p>=<i>Orthotospovirus arachinerosis</i> commonly known as Groundnut bud necrosis virus (GBNV), is causal agent for necrosis disease in blackgram. GBNV poses a major challenge to blackgram production in major growing areas next to yellow mosaic disease =In study, PCR based detection of GBNV virus confirmed the association of an isolate of GBNV with necrosis disease of blackgram in Krishna district of Andhra Pradesh. The pathogenicity of the GBNV-BG isolate was proved through mechanical sap inoculation on cowpea and blackgram. RT-PCR analysis confirmed the presence of GBNV in both cowpea and blackgram yielding an amplicon of 800 bp. Coat protein gene of GBNV isolates from Krishna district of Andhra Pradesh on comparison with other GBNV isolates from different crops have shown high sequence identity at nucleotide and aminoacid levels. Phylogeny analysis revealed that present study isolates of GBNV were grouped into a single cluster with multiple other GBNV isolates and closely linked with tomato-GBNV isolate from Tamil Nadu</p>	

PART 2:

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

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