

Review Form 1.7

Journal Name:	Journal of Advances in Microbiology
Manuscript Number:	Original Manuscript_JAMB_117691
Title of the Manuscript:	Bio-computational prediction of novel epitopes on VP2 protein of infectious bursal disease virus
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.journaljamb.com/index.php/JAMB/editorial-policy>)

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PART 1: Review Comments

	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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. Yes, topic is relevant. 2. Yes. 3. Yes. 4. Yes. 5. It is correct, but I think it requires more work 6. More references should be added. Especially existing work on other viruses, that used similar methodology.</p> <p>Only one variant of the protein is taken from GenBank. Is it possible to check if other sources of the sequence exist and include them all. Look for non-variable or little-variable regions of the protein to give more confidence to predicted scores.</p> <p>The authors provided only top epitopes, and did not mention the scores for the rest. It would be valuable to display all the results, especially the relation between top-scoring and the rest. Please also add statistic analysis of this, for all epitopes.</p> <p>Explain why only VP2 protein was used as a target? Consider using other viral proteins for bio-computational prediction.</p> <p>3D model of VP2 protein is given without any comments related to the obtained epitopes. Please add some conclusions from this 3D structure and its relations to the obtained results, or remove it from the manuscript.</p> <p>Add detailed explanation about the colors used in Table 1 or remove colors if not necessary. Currently, it looks a bit disturbing. Explain the columns in Table 3 (1-log50k, Affinity, Rank).</p> <p>“alleles having greater than 70% identities those of poultry MHC-I/II alleles were selected”. In the referenced study by Thomsen et al. the only thing mentioned is: “A value greater than 0.90 indicates high accuracy and values down to 0.70 are considered accurate predictions (Karosiene et al. 2011)”. It does not bring strong confidence to use 70% alleles. This fact should be mentioned in results section of the abstract.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Please have the language checked by the native speaker. Articles are missing on several places. “in” is missing in “two major types of vaccines used poultry” “were shorted as epitope.” Maybe use different word instead “shorted”.</p>	
<p>Optional/General comments</p>		

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PART 2:

	Reviewer's comment	Author's comment <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>	

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