

[Review Form2](#)

Book Name:	<a href="#">Contemporary Research and Perspectives in Biological Science</a>
Manuscript Number:	Ms_BPR_2896
Title of the Manuscript:	TOPOLOGICAL AND STATISTICAL METHODS FOR QSPR MODELING OF INNOVATIVE DRUGS FOR LUMPY SKIN DISEASE
Type of the Article	Book chapter

**PART 1: Review Comments**

<b>Compulsory</b> 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>
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.	This manuscript contributes significantly to the field of computational drug design, particularly for Lumpy Skin Disease (LSD) in cattle. The use of Quantitative Structure-Property Relationship (QSPR) models, augmented by topological indices, offers a novel and efficient approach for identifying potential treatments. The integration of graph theory with pharmacological research enhances predictive accuracy and reduces the need for experimental trials, which is valuable in veterinary medicine. I appreciate the manuscript's interdisciplinary approach, which combines computational chemistry, veterinary science, and mathematics to address an urgent agricultural and economic issue.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title, "Topological and Statistical Methods for QSPR Modeling of Innovative Drugs for Lumpy Skin Disease," is appropriate but could be refined for clarity. I suggest, "Topological Indices and QSPR Modeling for Drug Discovery in Lumpy Skin Disease." This emphasizes the key concepts more clearly and highlights the paper's computational focus.	
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.	The abstract is comprehensive, but it could benefit from a more explicit mention of the results obtained and their significance. Adding a brief statement about the model's predictive success, including quantitative performance metrics (if available), would strengthen the abstract's impact. This would better inform readers about the practical outcomes of the research.	
Are subsections and structure of the manuscript appropriate?	The structure and subsections of the manuscript are generally appropriate. The methods, results, and discussions are well-organized.	
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 manuscript is scientifically robust, with well-grounded methodologies in both graph theory and QSPR modeling. The linear regression analysis and use of topological indices to predict physical and chemical properties of drugs demonstrate strong statistical rigor. The detailed description of the topological indices and their applications provides technical depth, supporting the manuscript's conclusions on the potential of these models in drug discovery for LSD.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	The references are sufficient and cover a range of relevant literature on QSPR modeling, topological indices, and veterinary pharmacology. However, a few more recent sources on machine learning techniques in QSPR modeling could enhance the manuscript, as machine learning has seen rapid advances in this field.	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language of the manuscript is mostly clear but could benefit from minor grammatical improvements for smoother readability. Certain sections, such as the abstract and conclusions, could be rephrased for better flow and impact. For instance, the term "hastening the identification and development" could be replaced with "accelerating the identification and development" for better clarity.	
<b>Optional/General</b> comments	The manuscript presents a valuable contribution to computational drug discovery, particularly in the veterinary domain. The integration of topological indices in QSPR modeling is a promising approach for addressing LSD, and the work holds potential for broader applications in veterinary diseases. Further work on enhancing the readability and expanding on future directions would improve the manuscript's overall impact.	

**PART 2:**

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

**Reviewer Details:**

Name:	<b>Kazi Abdus Sobur</b>
Department, University & Country	<b>Bangladesh Agricultural University, Bangladesh</b>