

Review Form2

Book Name:	Innovations in Biological Science
Manuscript Number:	Ms_BPR_1947
Title of the Manuscript:	In vivo and in vitro oxidative stress studies of membrane alterations (fluidity and permeability) in mammalian red blood cells
Type of the Article	Book chapter

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>
Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.		
Are subsections and structure of the manuscript appropriate?		
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound?Minimum 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.		

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Minor REVISION comments Is language/English quality of the article suitable for scholarly communications?		
Optional/General comments	Here are some review comments for the author of the manuscript titled "In vivo and in vitro oxidative stress studies of membrane alterations (fluidity and permeability) in mammalian red blood cells": 1. Title and Abstract: - Title: Consider clarifying the title to better reflect the scope and specifics of the study. For example, "Oxidative Stress Effects on Membrane Fluidity and Permeability in Mammalian Red Blood Cells: In Vivo and In Vitro Studies". - Abstract: The abstract should be concise and focused. Ensure it summarizes the key findings and significance clearly. Mention the key results, particularly how vitamin E and polyphenols affect the oxidative stress-induced changes in RBC membranes. 2. Introduction: - The introduction provides a good background but could benefit from more structure. Clearly state the research question and hypothesis towards the end of the introduction. - Include recent references to support the relevance of your study. 3. Methods: - Study Design: Provide more details on the experimental design, including the number of replicates, specific controls, and any randomization/blinding methods used. - Animals: Specify the rationale for choosing Arabian strain horses and how they were selected. - Fluorescence Anisotropy: Explain the method of diphenylhexatriene fluorescence anisotropy more clearly. Ensure all technical terms are defined for clarity. - Anion Permeability: Provide a detailed protocol for the measurement of anion permeability for chloride, including any calibration and validation steps. 4. Results: - **Data Presentation:** Use consistent terminology throughout. For instance, ensure the terms "fluorescence anisotropy" and "fluorescence polarization" are used correctly and consistently. - Figures: Ensure all figures are clear and properly labeled. The captions should provide enough information to understand the figure without referring to the text. Consider merging Figures 2 and 3 if they represent related data. - Statistical Analysis: The results section mentions ANOVA but does not describe the statistical tests in detail. Include information about the statistical tests used, significance levels, and any post-hoc analyses. 5. Discussion: - Interpretation: The discussion should interpret the results in the context of the hypothesis and existing literature. Highlight the significance of your findings and how they advance understanding in the field. - Mechanisms: Discuss potential mechanisms by which vitamin E and polyphenols exert their	

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	protective effects on RBC membranes. - Limitations: Address any limitations of the study and suggest future research directions. 6. Conclusion: - The conclusion should succinctly summarize the key findings and their implications. It currently reiterates some results; instead, focus on the broader impact of your findings. 7. References: - Ensure all references are up-to-date and relevant. Correct any formatting inconsistencies. 8. General Formatting and Language: - Language: The manuscript should be proofread for grammatical errors and clarity. Ensure that the language is formal and scientific. - Formatting: Follow the journal's guidelines for formatting, including font size, line spacing, and section headings. Incorporating these comments will improve the clarity, rigor, and impact of your manuscript.	
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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:

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