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Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_126097
Title of the Manuscript:	Platelets' Functionality in Hemostasis, Inflammation, and Infections
Type of the Article	Review Article

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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)
<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>This article provides a detailed, well-organized, and accessible review of platelets, using clear language. It covers the process of haematopoiesis and the role of platelets in both inflammation and hemostasias. The article holds significant value for the scientific community by offering a straightforward introduction to the theoretical aspects of platelets, making it an excellent resource for studying this topic from the basics.</p> <p>While many recent articles focus on more complex and advanced topics, it's refreshing to see that some still prioritize providing simplified content for students who are new to the field.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title, "Platelets' Functionality in Haemostasis, Inflammation, and Infections," reflects the content of the article and follows the straightforward, simple language approach used throughout. It clearly communicates the key topics—hemostasias, inflammation, and infections—without being overly technical. This simplicity aligns with the article's accessible style, which seems intended for a broad audience, including those new to the field.</p> <p>However, if you're looking for a more scientific tone, a slight refinement could make it sound more academic without losing clarity. For instance: <i>"Comprehensive Review of Platelet Functionality in Hemostasis, Inflammation, and Infection Dynamics"</i></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>Personally, I see the abstract too simplified for a scientific review article. While it does provide a basic overview, it lacks the depth and specificity expected in an academic setting. A recommended abstract: <i>"Platelets play a central role in hemostasis and are increasingly recognized for their critical functions in immune responses and inflammation. This review explores the mechanisms by which platelets contribute to these processes, from their involvement in clot formation and wound healing to their emerging role in modulating immune cell activity during infections. The interaction between platelets and the inflammatory cascade creates a complex inflammation-hemostasis loop, with implications for both acute and chronic disease states. Recent advances in understanding platelet function during bacterial and viral infections are also discussed, with a focus on the therapeutic potential of targeting platelet-mediated pathways in various pathological conditions."</i></p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Excellently 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>This manuscript provides an essential review of the diverse roles of platelets in hemostasis, inflammation, and infections. The detailed exploration of the mechanisms behind platelet activation and its involvement in pathological conditions offers valuable insights for both clinical and research communities. It highlights key processes such as the inflammatory response, immune modulation, and the cross-talk between coagulation and inflammation, making it highly relevant for those studying or managing coagulopathies and inflammatory diseases.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p>	<p>There are area of improvement in references:</p> <ol style="list-style-type: none"> 1. Consistency in Formatting. Ensure uniform formatting for all references. For example, some citations include the full names of authors, while others use initials. Pick one style and apply it consistently throughout. 2. In references like #4, the full author list is not clearly delineated. It's often better to present a full list or use "et al." appropriately, ensuring clarity. 	

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	<p>3. For online resources (e.g., StatPearls), ensure URLs are complete and accessible. In cases where it is vital, you might consider specifying the access date.</p>	
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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>YES.</p>	
<p>Optional/General comments</p>	<p>I'll give my detailed specific review here on each section:</p> <ul style="list-style-type: none"> ➤ ABSTRACT [6/10], <ul style="list-style-type: none"> - already mentioned in the page above. Recommended abstract is written in Purple. ➤ INTRODUCTION [9/10], <ul style="list-style-type: none"> - if we go back to see that this article targets audience of new students to study platelets from scratch it's perfectly written, my only comment on it is if you could include a figure on the Haematopoiesis to make it easy to follow for readers. please don't adapt one, make your own graph (by <i>Canva</i> for example) so then future researched will be keen to cite your article and increases the likelihood of future citations. ➤ STRUCTURE OF PLATELET [7/10], <ul style="list-style-type: none"> - While it provides a solid overview, I believe it could be improved by adding a table summarizing the three types of secretory granules—alpha, dense, and lysosomal—along with their key components and functions. Additionally, incorporating a graph or figure that visually represents the platelet shape, diameter, and important structural features would significantly enhance understanding. You could adapt relevant figures already available in the literature, which would not only improve clarity but also make the section more engaging for readers. ➤ ROLE OF HEMOSTASIS [6/10] <ul style="list-style-type: none"> - in line 126, it's advised to change the sentence to this "Maintaining the delicate balance between clot formation and breakdown is crucial during hemostasis, as any disruption can lead to thrombosis (from hypercoagulation) or hemorrhage (from hypocoagulation). Normal hemostatic responses occur in three distinct phases: primary, secondary, and tertiary hemostasis [17]" to decrease redundancy. - in line 145, it's advised to change the sentence to this "During platelet activation, platelets release biochemical substances, such as cytokines and chemical mediators, through a process called degranulation. Some of these substances, including ADP, facilitate the activation and aggregation of neighboring platelets. Additionally, von Willebrand Factor (vWF), which is primarily secreted by endothelial cells and megakaryocytes, plays a key role in platelet adhesion. [20,22]" to ensure that you specify that vWF is NOT secreted by platelets. The original text wasn't clear in that manner as vWF was putted with ADP after a sentence that discuss how cytokines secretion helps platelet. - This section would greatly benefit from an algorithmic figure illustrating the hemostasias cascade. While adapting an existing figure could be helpful, creating an original one would significantly enhance the value of the study and make it a highly useful reference for future reviewers. ➤ ROLE IN INFLAMMATION [8/10] <ul style="list-style-type: none"> - in line 186, it's advised to change the sentence to this "Inflammation is a complex biological response that protects the body from threats like pathogens, injuries, and toxins. Involving blood vessels, immune cells, and molecular mediators, it plays a crucial role in the body's defense and tissue healing processes [26]" to decrease redundancy. - I would suggest a table that may compare the cytokines and other proteins where platelets function in inflammation would be carried. ➤ SECTION 4.1 [5/10] <ul style="list-style-type: none"> - A wasted opportunity, where this section could delve deeper into the mechanisms by which platelets facilitate metastasis, such as their interaction with circulating tumour cells and contribution to the pre-metastatic niche. It feels slightly underdeveloped, expanding on how these processes could be targeted therapeutically would strengthen the impact. Delve more into Disseminated intravascular hypercoagulation (DIC) and tumours if recommended in a single paragraph in simple manner just to give section 4.1 clinical significancy. ➤ SECTION 5 Platelets in hemostasias and inflammation [7/10] <ul style="list-style-type: none"> - Section 5 contains several instances of redundancy that could be addressed to enhance clarity and conciseness. The discussion of the interplay between inflammation and hemostasias is reiterated multiple times, which may dilute the impact of the key points being made. For example, phrases describing how the inflammatory response activates the haemostatic system 	

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	<p>and how haemostatic mechanisms influence inflammation convey similar ideas and could be combined for clarity. Additionally, some detailed descriptions of mechanisms could be streamlined to focus on the most relevant aspects, reducing repetition. By minimizing these redundancies, the section could become more focused and easier to read, ultimately strengthening the overall presentation of the material.</p> <ul style="list-style-type: none">➤ SECTION 6 Platelets function in immune responses to infectious pathogens [10/10]- Perfectly written!➤ CONCLUSION [7/10]- A stronger closing statement would enhance its overall impact.	
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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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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