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| Book Name: | [Achievements and Challenges of Medicine and Medical Science](https://www.bookpi.org/bookstore/product/achievements-and-challenges-of-medicine-and-medical-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4195** |
| Title of the Manuscript: | **HOW THE MACULA OF THE SACCULE AND UTRICLE (OTOLITH ORGANS) MODULATE THE CALORIC RESPONSE OF THE HUMAN BALANCE SYSTEM AND CONTRIBUTE TO FALL PREVENTION.** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: 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)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimumof 3-4 sentences may be required for this part.** | This manuscript provides valuable insights into the modulation of caloric responses by the otolithic organs, specifically the maculae of the saccule and utricle, in the context of human balance. The findings challenge conventional understanding by demonstrating how head position influences vestibular function, particularly in patients with otolithic abnormalities. Additionally, the study introduces the striated organelle (STO) as a key player in balance maintenance, emphasizing its previously underappreciated role in the bipedal mammalian vestibular system. This research offers new perspectives on fall prevention strategies, particularly for individuals with vestibular disorders, contributing to both clinical practice and fundamental neurophysiology. | | |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The title of the article is suitable but could be made more concise and focused to capture the essence of the study more clearly. A suggested alternative title could be: "Modulation of Caloric Responses by the Otolithic Organs: Implications for Vestibular Function and Fall Prevention in Bipedal Humans" | | |  |
| 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 could benefit from a clearer focus on the significance of the findings and their implications for clinical practice. It may be helpful to explicitly mention the potential impact on diagnostic approaches and treatment strategies for patients with vestibular disorders. Additionally, the role of the striated organelle (STO) could be highlighted earlier for better context. | | |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript appears to be scientifically correct, presenting a well-structured study on the modulation of caloric responses by otolithic organs. The methodology, including the use of VEMPs and caloric testing, is appropriate for investigating vestibular function. Further review of the data analysis and statistical methods would confirm its validity. | | |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are extensive, relevant, and include both classic foundational studies and more recent research up to 2024. However, to enhance the manuscript, additional references on the latest advancements in otolith function and caloric testing techniques from the past 2-3 years may be beneficial. Including more recent reviews on vestibular evoked myogenic potentials (VEMPs) could also strengthen the study's context. | | |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language quality of the article is generally suitable for scholarly communication, but there are minor grammatical errors and instances of awkward phrasing that could be improved for clarity and readability. A thorough copyedit would enhance the overall presentation and precision of the content. | | |  |
| Optional/Generalcomments |  | | |  |
| **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)* |  | |

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| **Reviewer Details:** | |
| Name: | **Iqra Asif** |
| Department, University & Country | **Riphah International University, Pakistan** |