

Review Form 3

Book Name:	Science and Technology: Developments and Applications
Manuscript Number:	Ms_BPR_4193
Title of the Manuscript:	Impact Assessment of Thermal Environment on Human Strength: An Empirical Investigation in Controlled Laboratory Conditions
Type of the Article	BOOK CHAPTER

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 minimum of 3-4 sentences may be required for this part.	This manuscript makes a valuable contribution to our understanding of how thermal environments impact human physical performance. The empirical investigation provides precise data on the effects of different temperature conditions on muscular strength and muscular endurance. The findings have direct practical applications for athletic training, military operations, and workplace safety protocols. The study’s controlled laboratory conditions and comprehensive analysis provide reliable data that can inform environmental design decisions.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title “impact assessment of thermal environment on human strength: an empirical investigation in controlled laboratory conditions” is suitable and accurately reflects the content and scope of the research.	
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 genrally comprehensive but could benefit from: <ul style="list-style-type: none">- Including specific statistical values for key findings.- Mentioning the sample size and participants demographics- Adding brief details about the testing protocols duration- Including specific temperature ranges found to be optimal.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically sound with: <ul style="list-style-type: none">- Appropriate expertimanetal design.- Valid statistical analysis.- Proper control measure.- Results consistent with existing literature.- Some methodological details need clarification; Humidity control measures, time of the day standardization, participant clothing standardization.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =	The references are adequate but could be more current. Suggested additional references: <ul style="list-style-type: none">- Recent studies on heat acclimation protocols.- Latest workplace safety guidelines regarding thermal conditions.- Recent systematic reviews on the temperature effects on athletic performance.- Studies examining individual variations in temperature response.	

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Is the language/English quality of the article suitable for scholarly communications?	The language is suitable for scholarly communication. The writing is clear, technical terms are used appropriately, and the structure follows standard scientific writing conventions. Minor editing would improve some section clarity.	
Optional/General comments	<ul style="list-style-type: none">- Consider adding visual representations of results.- Include standard deviations consistently throughout.- Expand discussion of potential mechanisms.- Add more detail about participant screening criteria.- Sound methodology and analysis- Clear practical applications- Minor improvements needed in methodology details and data presentation- Need for more current references- Some clarifications needed regarding testing protocols	

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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