Type of the Paper (Original Research, Review)

Title (Use clear, concise, and descriptive titles. Avoid lengthy titles. Please see a guideline for making titles using the following article )

Firstname Lastname1, Firstname Lastname2 and Firstname Lastname2†

1 Affiliation 1

2 Affiliation 2

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*ORCID IDs of Authors*

**Abstract:** The abstract should be a single paragraph having length of about 200 words. For research articles, it should provide a concise overview of the work. We recommend authors use the following structured approach without using explicit headings: (1) **Background**: Present the research question in a broad context and highlight the purpose of the study.; (2) **Methods**: Briefly describe the main methods or treatments used. (3) **Results:** Summarize the primary findings of the study; (4) **Conclusions**: State the main conclusions or interpretations. The abstract must be an accurate and objective representation of the content of the paper. There should be no references present in the abstract. It should not contain results that are not discussed and validated in the main text (Please read the following article for making a compelling abstract).

**Keywords:** keyword 1; keyword 2; keyword 3 (List three to ten keywords specific to the article but also common within the subject discipline and generally used in the search. The keywords must be present in the title or abstract. Read the following article to write compelling keywords)

0. How to Use This Template

The template outlines the sections to be included in a manuscript, each with an assigned style available in the “Styles” menu of Word. Non-mandatory sections are indicated accordingly. The provided section titles are intended for research articles, while review papers may follow a more flexible format, but should included introduction, Materials and Methods, Discussion and Conclusion

Remove this paragraph and begin section numbering from 1. For any queries, please reach out to the journal's editorial office.

1. Introduction

The introduction should provide a brief overview of the study in a broader context and emphasize its significance. Clearly define the purpose of the work and its relevance. Review the current state of research in the field, citing key publications and highlighting any controversial or diverging hypotheses if applicable. Conclude by stating the main aim of the study and summarizing the key findings. Ensure the introduction is accessible and understandable to scientists beyond your specific research area. References should be mentioned as (Lastname et al. year) or (Lastname1 & Lastname2 year). See the end of the document for further details on references.

2. Materials and Methods

The Materials and Methods section should be detailed enough to enable others to replicate and build upon the published findings. By submitting your manuscript, you agree to make all related materials, data, computer code, and protocols accessible to readers. Any restrictions on the availability of materials or information must be disclosed during submission. New methods and protocols should be thoroughly described, while established methods can be briefly outlined and cited appropriately.

Interventionary studies involving animals or humans, and other studies that require ethical approval, must list the authority that provided approval and the corresponding ethical approval code.

3. Results or Results and Discussions

This section can be organized using subheadings. It should present a clear and concise description of the experimental results, their interpretation, and the conclusions derived from them. If the flow of the paper suggests to combine the results and discussions in one Section you can do it here.

3.1. Subsection (in Title case)

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Bulleted lists look like this:

* First bullet;
* Second bullet;
* Third bullet.

Numbered lists can be added as follows:

1. First item;
2. Second item;
3. Third item.

The text continues here.

3.2. Figures, Tables and Schemes

All figures and tables should be cited in the main text as Fig. 1, Table 1, etc. Please refer the following guideline on how to make figures and tables in a research paper.

**Fig. 1:** This is a figure.

**Table 1:** This is a table. Tables should be placed in the main text near to the first time they are cited.

|  |  |  |
| --- | --- | --- |
| **Title 1** | **Title 2** | **Title 3** |
| entry 1 | data | data |
| entry 2 | data | data 1 |

1 Tables may have a footer.

3.3. Formatting of Mathematical Components

This is example 1 of an equation:

a = 1 …(1)

the text following an equation need not be a new paragraph. Please punctuate equations as regular text. For complex formulas you can insert the equation using the feature of word or using software like MathType

This is example 2 of an equation:

a = b + c + d + e + f + g + h + i + j + k + l + m + n + o + p + q + r + s + t + u + v …(2)

the text following an equation need not be a new paragraph. Please punctuate equations as regular text.

4. Discussion

The discussion should interpret the results in the context of previous studies and the initial hypotheses. Consider the implications of the findings in the broadest context, and suggest potential directions for future research. Authors should also make sure that the discussion is not just mentioning the results. It should be discussed and interpreted. The results can be compared with previous studies to show the concurrence with other studies.

5. Conclusions

The conclusion should briefly summarize the main findings of the study and their significance. Emphasize how the results contribute to the existing knowledge in the field. Include any potential applications or recommendations for future research, if applicable. Do not use any references in the conclusion.

6. Patents

This section is not mandatory but may be added if there are patents resulting from the work reported in this manuscript.

**Author Contributions:** For research articles with multiple authors, include a brief paragraph outlining each author's contributions using the following format: “Conceptualization, X.X. and Y.Y.; methodology, X.X.; software, X.X.; validation, X.X., Y.Y. and Z.Z.; formal analysis, X.X.; investigation, X.X.; resources, X.X.; data curation, X.X.; writing—original draft preparation, X.X.; writing—review and editing, X.X.; visualization, X.X.; supervision, X.X.; project administration, X.X.; funding acquisition, Y.Y. All authors have read and agreed to the published version of the manuscript.” Authorship should be restricted to individuals who have made significant contributions to the research.

**Funding:** For the Funding section, please include one of the following statements: “This research received no external funding” or “This research was funded by [NAME OF FUNDER], grant number [XXX].

**Institutional Review Board Statement:** In this section, include the Institutional Review Board Statement and approval number if applicable to your study**. If the study did not require ethical approval, this statement can be omitted.** The Editorial Office may request additional information if needed. Use one of the following statements based on your study type: For human studies: “The study was conducted in accordance with the Declaration of Helsinki, and approved by the Institutional Review Board (or Ethics Committee) of [NAME OF INSTITUTE] (protocol code [XXX] and date of approval).” For animal studies: “The animal study protocol was approved by the Institutional Review Board (or Ethics Committee) of [NAME OF INSTITUTE] (protocol code [XXX] and date of approval).” If ethical review was waived: “Ethical review and approval were waived for this study due to [REASON] (please provide a detailed justification).” For studies not involving humans or animals: “Not applicable.”

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References

References should be cited as (Last name et al. year) (do not use comma after et al.) and listed individually at the end of the manuscript.

In the Reference Section, the references should be arranged alphabetically by the authors’ surname. We recommend the usage of the bibliography software packages like EndNote, Zotero, Mendeley, Reference Manager to avoid discrepancies in the cited and list of full references.

The references should follow the Harvard Style of Reference Writing. The references should mandatorily include a source link like that of DOI, Google Scholar, PubMed, ResearchGate, etc. or website wherever available. In case of unpublished materials, please mention categories like submitted, in press, private communication, personal communication, unpublished work etc.

Note: The titles of the papers should be in running ‘sentence case’, while the titles of the books, reports, theses, journals, etc. should be in ‘title case’ with all words starting with CAPITAL letter. For website references, include the Author or Organization, Date of Publication, Title of the Page, URL, and Access Date.

***Please note that the references mentioned in the text should be present in the Full reference section and vice-versa. If the editors or reviewers finds incomplete references (without the year, volume number and page numbers or with et al.), inconsistency in the references or non-relevant references present in the manuscript or excessive self-citations, they can reject the manuscript on this basis at any stage of the publication process.***

Sample Reference Pattern

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