Type of the Paper (Article, Review, Communication, etc.)

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Title

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**Abstract:** The abstract should be a single paragraph of up to 200 words, providing a concise and objective overview of the study. It should introduce the research topic within a broad context and highlight the purpose of the work. A brief description of the key methodologies or treatments applied should be included, followed by a summary of the main findings. The final part should emphasize the significance of the study and its broader implications. The abstract must accurately reflect the content of the manuscript, avoiding unsupported claims, exaggerated conclusions, or results not presented in the main text.

**Keywords:** keyword 1; keyword 2; keyword 3 (List three to ten pertinent keywords specific to the article; yet reasonably common within the subject discipline.)

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1. Introduction

The introduction should provide a broad context for the study and emphasize its significance. It should clearly define the purpose of the work and its contribution to the field. A concise review of the current research landscape should be included, citing key studies and addressing any ongoing debates or conflicting hypotheses where relevant. The primary objectives of the study should be stated clearly, along with a brief mention of the main conclusions. Efforts should be made to ensure accessibility to researchers from related disciplines. References should be cited in numerical order as they appear in the text, using square brackets (e.g., [1], [2,3], or [4–6]). Further details on references are provided at the end of the document.

2. Materials and Methods

**Materials and Methods** should be described in sufficient detail to allow others to **replicate** and **build upon** the published results. Authors must ensure that all materials, datasets, computer code, and protocols associated with the study are **accessible** to readers. Any restrictions on the availability of materials or data should be disclosed at the submission stage.

New methods and protocols should be described in detail, whereas well-established methods can be briefly mentioned with appropriate citations. If the study includes large datasets stored in a **public database**, the deposition location and relevant **accession numbers** should be provided. If accession numbers are unavailable at submission, authors must state that they will be provided during the review process and ensure they are included before publication.

For **interventionary studies involving animals or humans**, authors must include details of ethical approval, listing the **approving authority** and the corresponding **ethical approval code**.

**Subsections**

This section should be **divided into logical subsections** (e.g., study design, data collection, statistical analysis) to enhance clarity and organization.

* For **experimental research**, subsections should cover essential details such as sample preparation, measurement techniques, and analysis methods.
* For **review articles**, this section may be omitted if no original data or methodology is presented.

3. Results and Discussion

This section should be structured clearly and may be divided into **subheadings** to present a concise and precise description of the experimental results, their interpretation, and the conclusions that can be drawn.

3.1. Subsection.

Further categorization within the results can be achieved using subsections where necessary.

3.1.1. Subsubsection.

For more detailed discussions or complex analyses, additional subheadings may be used to organize information logically.

All figures and tables must be cited in the main text in sequential order as **Figure 1, Table 1**, etc. They should be placed **as close as possible to their first mention** in the manuscript.

**Example Formatting for Figures and Tables**

|  |  |
| --- | --- |
| (**a**) | (**b**) |

**Figure 1.** This is a figure, Schemes follow the same formatting. If there are multiple panels, they should be listed as: (**a**) Description of what is contained in the first panel; (**b**) Description of what is contained in the second panel. Figures should be placed in the main text near to the first time they are cited. A caption on a single line should be centered.

**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.

Supplementary Materials

Any additional data, figures, or tables that support the main manuscript but are **too extensive** for inclusion should be provided as **Supplementary Materials** at the end of the manuscript, **after the References section**.

Each supplementary **figure and table must have a caption and numbering** starting with **S** (e.g., **Table S1, Figure S1**). These must be **properly cited in the main text** to ensure clarity for readers.

**Example of Supplementary Materials Citation in the Main Text:**

* “Additional experimental data can be found in **Figure S1** and **Table S1** in the Supplementary Materials.”

The **Discussion** section should provide a **comprehensive analysis** of the results, interpreting their significance in the context of existing research. This section should not simply **repeat** the results but instead focus on **explanations, comparisons, and implications**.

**Key Elements of the Discussion:**

1. **Interpretation of Results**
	* Explain how the findings contribute to the understanding of the topic.
	* Discuss trends, relationships, and patterns observed in the data.
	* Address whether the results **support or contradict** previous studies.
2. **Comparison with Previous Studies**
	* Cite relevant literature to compare findings with **previously published research**.
	* Highlight **agreements, discrepancies, or unexpected findings**.
3. **Possible Explanations & Theoretical Implications**
	* Suggest **scientific explanations** for observed phenomena.
	* Discuss potential **mechanisms or models** that may explain the results.
	* If applicable, consider alternative explanations and **limitations** of the study.
4. **Limitations & Future Directions**
	* Acknowledge **limitations** such as sample size, methodology constraints, or biases.
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	* Identify new research questions or **unresolved issues** that warrant further investigation.
5. **Broader Implications**
	* Discuss how findings contribute to the field and their **practical, clinical, or theoretical relevance**.
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The **Conclusion** section is mandatory and should be included in all manuscripts, regardless of the complexity of the study. It serves to **summarize key findings**, highlight the **significance of the work**, and provide **perspectives for future research**.

**Key Elements of a Strong Conclusion:**

1. **Summary of Findings**
	* Concisely restate the most important results of the study without repeating details from the Results or Discussion sections.
	* Focus on the **main contributions** of the research to the field.
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	* Explain the **broader impact** of the findings, including their theoretical, practical, or clinical significance.
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	* If already covered in the Discussion, this can be omitted or briefly referenced.
4. **Future Directions**
	* Suggest **potential areas for further research**, whether methodological improvements, expanded studies, or new research questions that emerged from the findings.
	* Provide recommendations for how the study can be expanded or applied in real-world scenarios.

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For research articles with multiple authors, a detailed statement of individual contributions must be provided. The following standardized format should be used:

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Key Guidelines for Author Contributions:

Follow the CRediT (Contributor Roles Taxonomy) to accurately describe each author's role in the research process. More details can be found at <https://credit.niso.org/> .

Each contributor must be explicitly mentioned under relevant roles.

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**Abbreviations**

The following abbreviations are used in this manuscript:

Here are **examples of common abbreviations** used in scientific manuscripts across various disciplines:

|  |  |
| --- | --- |
| **Abbreviation** | **Definition** |
| AI | Artificial Intelligence |
| ATP | Adenosine Triphosphate |
| CI | Confidence Interval |
| CRISPR | Clustered Regularly Interspaced Short Palindromic Repeats |
| DNA | Deoxyribonucleic Acid |
| ELISA | Enzyme-Linked Immunosorbent Assay |
| GDP | Gross Domestic Product |
| IRB | Institutional Review Board |
| LOD | Limit of Detection |
| MRI | Magnetic Resonance Imaging |
| PCR | Polymerase Chain Reaction |
| SEM | Scanning Electron Microscopy |
| WHO | World Health Organization |

References

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