

Research Article

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**First Author Name^{*1}, Second Author Name², Third Author
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¹Full name of the first author's institution, City, Country. First author's
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Abstract

The abstract represents the entire content and implications of the manuscript, written concisely (200 words). It should include the background, research objectives, methods, data analysis, results, conclusions, and end with implications or contributions to scientific advancement. Avoid using citations, references, and abbreviations unless previously mentioned (**Calibri, size 10**)

INTRODUCTION □ (Calibri, size 12)

The introduction should include the following elements: (1) *State of The Art*; (2) *Gap analysis*; and (3) Research objectives. State of the Art, supported by references from the last 10 years. The description should be backed by conceptual references published within the last decade. A substantial number of references in the State of the Art section is highly recommended. Gap analysis outlines the urgency and uniqueness that distinguish the research from previous studies. The introduction should be written in simple and easy-to-understand language, adhering to the Enhanced Spelling Rules (EYD) or the General Guidelines for Indonesian Spelling (PUEBI). The research objectives should be written based on observation/preliminary studies and gap analysis.

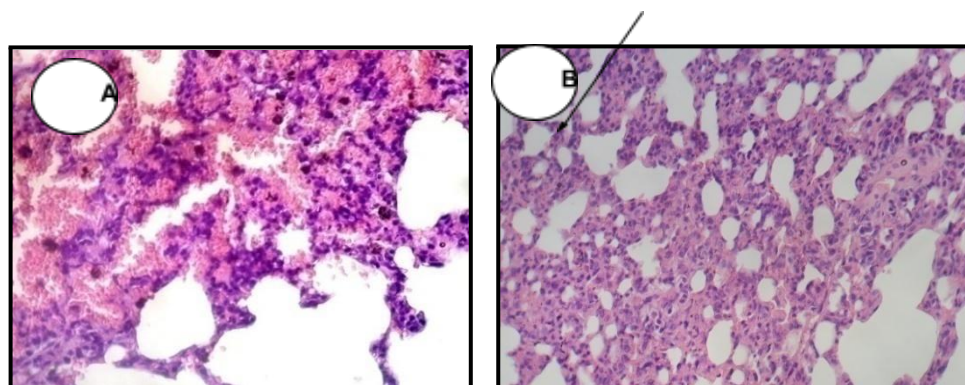
RESEARCH METHODS □ (Calibri, size 12)

Presents the time, location, tools and materials, methods, procedures, and data analysis techniques used. The method must specify the type of research, whether experimental, exploratory, or others. Formulas must be written using the menu Insert > Equation/Symbol. Each symbol in the formula must be accompanied by a description below the formula in 12pt font size.

RESULTS AND DISCUSSION □ (Calibri, size 12)

Presents results that are easy to understand. Research data can be presented in the form of tables, graphs, illustrations, and relevant photos. The discussion must interpret the research data based on relevant references. Additionally, the discussion should address the issues and questions posed in the study.

If the manuscript including figures, the figure captions should be placed below the figures (Figure 1). Figures should be numbered sequentially starting from 1, 2, and so on. The figures must meet print quality standards. If there are series of figures, they should be labeled with indicators such as a, b, c, and so on.



Example of Figure Caption:

Figure 1. Photomicrograph of the lungs after exposure to cigarette smoke showing an increase in inflammatory cells in the alveoli (1) and alveolar enlargement (2) after 60 hours of treatment. A (N = untreated group), B (60h = exposure to cigarette smoke for 60 days). Bar = 5 μ m. Staining: HE.

If the manuscript includes tables, the table captions should be placed above the tables (Table 1). Tables should be numbered sequentially, such as Table 1, Table 2, Table 3, and so on. Tables should be formatted with horizontal lines and without vertical lines

Example of Table Formatting:

Table 1. Average BDP Count (million/ mm^3) after exposure to cigarette smoke, administration of Kebar Grass Extract, and Cessation of Kebar Grass Extract administration

Exposure Time	Collection Time			Average
	T0	T1	T2	
20h	17.61 $\pm$ 1.63 ^a	15.70 $\pm$ 3.47 ^a	8.58 $\pm$ 4.73 ^b	13.97
60h	19.12 $\pm$ 2.17 ^a	16.23 $\pm$ 1.81 ^a	9.70 $\pm$ 4.33 ^b	15.02
Average	18.37 ^a	15.97 ^a	9.14 ^b	tn

Note: The displayed data represent the mean $\pm$ standard deviation. Different letters in the same row or column indicate a significant difference ($p < 0.05$). T0 = time after exposure, T1 = time after administration of Kebar grass extract, T2 = time after treatment cessation, 20h = group exposed to cigarette smoke 10 cigarette/animal/day for 20 days and 60h = group exposed to cigarette smoke (10 cigarette/animal/day) for 60 days

CONCLUSION □ (Calibri, size 12)

The conclusion present the final answer to the research objectives, summarizing key findings that are considered important for the advancement of science and technology. The suggestions sections includes limitations or aspects that were not fully achieved in this study. Both the conclusion and suggestions should be written in paragraph form, not as a numbered list.

ACKNOWLEDGEMENTS (If applicable) □ (Calibri, size 12)

The acknowledgements should be directed only to contributors involved in the research or article writing (such as funding sources, laboratory facilities, and other resources). This section should be written in a single paragraph with a maximum of 50 words.

DECLARATIONS**Author Contributions**

Explain the specific roles and responsibilities of each author in the research and writing process. For example, who designed the study, collected data, performed analysis, or wrote the manuscript.

Funding

Specify the sources of financial support for the study, including grant numbers, sponsoring organizations, or any other funding bodies that supported the research.

Ethical Statement

Describe the ethical considerations related to the study, including approval by relevant ethics committees or institutional review boards, informed consent from participants, and adherence to ethical guidelines.

Declaration of Interest

Disclose any potential conflicts of interest or financial relationships that might influence the research or interpretation of results.

Data Sharing Statement

Clarify whether the data supporting the findings of the study are available to others, and if so, how and where they can be accessed (e.g., in a public repository or upon reasonable request).

REFERENCE □ (Calibri, size 12)

The literature used should be up-to-date, justifying the originality or novelty within the last 10 years. A minumum of 20 references must be used, with at least 5 from international journals. At least 80% of the references must be frim primary sources/scientific journals. Books

containing theoretical concepts may be used as references, but no more than 20% of the total references. References should be arranged alphabetically.

References should follow the APA style, with the aid of applications like Mendeley of Zotero. It is mandatory to display the DOI for each reference used.

Examples of Reference Writing

Journal

- Sasmita, F. W., Susetyarini, E., Husamah, H., & Pantiwati, Y. (2017). Efek ekstrak daun kembang bulan (*Tithonia diversifolia*) terhadap kadar glukosa darah tikus wistar (*Rattus norvegicus*) yang diinduksi alloxan. *Majalah Ilmiah Biologi BIOSFERA: A Scientific Journal*, 34(1), 22-31. <https://doi.org/10.20884/1.mib.2017.34.1.412>
- Mahtuti, E. Y., & Faisal, F. (2024). Effect Of Tubal Root Extract (*Derris elliptica*) On Larval Mortality Anopheles Sp. *Borneo Journal of Medical Laboratory Technology*, 6(2), 515-521. <https://doi.org/10.33084/bjmlt.v6i2.5838>

Monograph

- SR, M. A., Suryanita, S., Setiawan, P., Azima, A., Siradjuddin, M., & Sudirman, A. (2024). Buku Ajar Anatomi & Fisiologi Manusia Jilid 1.
- Kadir, D., Hadi, S. A. U., Anurogo, D., Abadi, M. F., Mardin, H., Lisaholit, S., ... & Prasetya, D. (2024). Biologi Umum: Memahami Kehidupan dan Keanekaragaman Hayati. *Penerbit Mifandi Mandiri Digital*, 1(01).

Chapter in Book

- Mafruchati, M. (2024). *Therapy For Cbavd Using Cluster Of Differentiation A New Potential of Dendritic Cells*. Zifatama Jawa.

Proceedings

- Nurchayanti, O., & Rahma, K. (2022). Terapi Ekstrak Etil Asetat Daun Baru Laut Terhadap Pertumbuhan Parasit Pada *Mus mucus* Terinfeksi *Plasmodium Berghei*. *Prosiding Asosiasi Institusi Pendidikan Tinggi Teknologi Laboratorium Medik Indonesia*, 1, 218-228.

Internet

- Bindar, Y. (2000). Ekonomi, Rokok dan Konsekuensinya. ITB : Jurusan Teknik Kimia. <http://www.Angelfire/.com/il/nalapralaya/rokok/html> [8 November 2024].

Report

- Aregawi, M., Cibulskis, R. E., Otten, M., & Williams, R. (2009). *World malaria report 2009*. World Health Organization.

Thesis/Dissertation

- Liganda, E. M. (2021). Efek Ekstrak Kemangi (*Ocimum basilicum L*) terhadap Ekspresi *Sirtuin 1 (SIRT1)*, *Peroxisome Proliferator Activated Receptors γ (PPAR γ)*, dan Histologi Hepar pada Tikus Model Diabetes Melitus Gestasional. [Skripsi]. Universitas Andalas.
- Nuriza, R. A. (2024). Pengaruh Ekstrak Etanol Sarang Semut (*Myrmecodia pendans*) Terhadap Profil Metabolik Tikus Wistar Jantan (*Rattus norvegicus*) Model Obesitas Dengan DM

- tipe 2 (*Kajian IMT, Profil Lipid, Gula Darah Puasa, HOMA-IR dan HOMA- β*). [Thesis]. Sebelas Maret University.
- Pemi, P. (2024). Pengaruh Ekstrak Kulit Kayu Manis (*Cinnamomum burmanii*) Terhadap Kadar Malondialdehida Darah, Aktivitas Katalase dan Gambaran Histopatologi Pankreas Pada Tikus Hiperglikemia. [Disertasion]. Universitas Andalas.