

# Planta Tropika



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THIDIAZURON-INDUCED SOMATIC EMBRYOGENESIS IN *CYMBIDIUM BICOLOR* ORCHID IN VITRO

**AZURA MUZDALIFAH ISTIQOMAH, NINTYA SETIARI, YULITA NURCHAYATI**

GROWTH AND YIELD OF MINT (*MENTHA SPICATA* L.) AS AFFECTED BY COMPOSITION OF CHARCOAL HUSK AND ORGANIC FERTILIZER

**PARDONO, A I NURMALASARI, P HARSONO M. MUMTAZUL FIKRI NURFIANSYAH**

EFFECTS OF CRICKET AND FRUIT FLY FLOUR IN GROWTH MEDIA ON *BEAUVERIA BASSIANA* (BALS.) VUILL PATHOGENICITY AGAINST *ZEUGODACUS CUCURBITAE* (COQUILLET) PREPUPAE

**NONI RAHMADHINI, U'UD UDA MARLINA, SUPUTA, RAMADHANI MAHENDRA KUSUMA**

ANTAGONISTIC ACTIVITY OF *TRICHODERMA HARZIANUM* AGAINST *ASPERGILLUS PARASITICUS* AND *MUCOR CIRCINELLOIDES* IN CORN PLANT (*ZEA MAYS* L.)

**SUSIANA PURWANTISARI, FARAH ARHUSY NURBAYANI, MARISTA FIKRI IRSYA SAFINA, MIFTAHUL CHOIRIYAH**

FORMULATION AND MARKET ACCEPTABILITY OF DRAGON FRUIT (*SELENICERIUS UNDATUS*) FLAVORED MEAD

**JOSIEFEL Z. AGCAOILI**

EFFECTS OF BIOCONTROL PRODUCT BIO P60 AND LIQUID ORGANIC FERTILIZER ON THE DEVELOPMENT OF FUSARIUM WILT AND YIELD OF SHALLOT

**LOEKAS SOESANTO, ADI MAULANA YUSUP, MURTI WISNU RAGIL SASTYAWAN, ENDANG MUGIASTUTI, WORO SRI SUHARTI**

ANTAGONISTIC EFFECT OF NITROGEN FERTILIZER AND RHIZOBIUM ON GROWTH, NODULATION AND YIELD OF PEANUT (*ARACHIS HYPOGAEA* L.) IN ACIDIC SOIL

**DESY SETYANINGRUM, SUPRIYONO, RIZA NOERMALA PUTRI**

ASSESSING SOIL NUTRIENT AND BIOMASS CONTRIBUTIONS TO PEATLAND FORMATION

**M EDI ARMANTO, ELISA WILDAYANA, MOMON SODIK IMANUDIN**

EFFECTS OF ARBUSCULAR MYCORRHIZA-ENRICHED BIO-COMPOST AND ORGANIC FERTILIZER ON REDUCING HEAVY METAL ABSORPTION IN SHALLOTS

**MUHAMMAD AKHSAN AKIB, SARJIYA ANTONIUS, TUTIK KUSWINANTI, SYATRAWATI, TIRTA KUMALA DEWI, ENTIS SUTISNA**

EFFECTS OF SOIL AMELIORANTS ON GROWTH AND YIELD OF ELEPHANT GRASS (*PENNISETUM PUPUREUM*) IN POST-TIN MINING LAND

**TRI LESTARI, NYAYU SITI KHODIJAH, NANDA SUKOWATI PRATIWI, DENI PRATAMA**



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# Planta Tropika

Planta Tropika focuses related to various themes, topics and aspects including (but not limited) to the following topics Agro-Biotechnology, Plant Breeding, Agriculture Waste Management, Plant Protection, Soil Science, Post Harvest Science and Technology, Horticulture. Planta Tropika published two times a year (February and August) by Universitas Muhammadiyah Yogyakarta in collaboration with Indonesian Association of Agrotechnology / Agroecotechnology (PAGI) and Perhimpunan Agronomi Indonesia (PERAGI). The subscriptions for one year : IDR 350.000.

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# List of Contents

## Vol. 13 No. 1 / February 2025



2 5 2 8 7 0 7 9



0 2 1 6 4 9 9 X

- 1 - 14 Thidiazuron-Induced Somatic Embryogenesis in *Cymbidium bicolor* Orchid In Vitro  
**Azura Muzdalifah Istiqomah, Nintya Setiari\*, Yulita Nurchayati**  
Department of Biology, Faculty of Science and Mathematics, Diponegoro University
- 15 - 25 Growth and Yield of Mint (*Mentha spicata* L.) as Affected by Composition of Charcoal Husk and Organic Fertilizer  
**Pardono, A I Nurmalasari\*, P Harsono M. Mumtazul Fikri Nurfiansyah**  
Department of Agrotechnology, Faculty of Agriculture, Universitas Sebelas Maret
- 26 - 37 Effects of Cricket and Fruit Fly Flour in Growth Media on *Beauveria bassiana* (Bals.) Vuill Pathogenicity Against *Zeugodacus cucurbitae* (Coquillett) Prepupae  
**Noni Rahmadhini<sup>1</sup>, U'ud Uda Marlina<sup>1</sup>, Suputa<sup>2</sup>, Ramadhani Mahendra Kusuma<sup>1\*</sup>**  
<sup>1</sup>Department of Agrotechnology, Faculty of Agriculture, Universitas Pembangunan Nasional "Veteran" Jawa Timur  
<sup>2</sup>Department of Plant Pests and Diseases, Faculty of Agriculture, Universitas Gadjah Mada
- 38 - 51 Antagonistic activity of *Trichoderma harzianum* against *Aspergillus parasiticus* and *Mucor circinelloides* in corn plant (*Zea mays* L.)  
**Susiana Purwantisari\*, Farah Arhusy Nurbayani, Marista Fikri Irsya Safina, Miftahul Choiriyah**  
Department of Biology, Faculty of Science and Mathematics, Diponegoro University
- 52 - 64 Formulation and Market Acceptability of Dragon Fruit (*Selenicereus undatus*) Flavored Mead  
**Josiefel Z. Agcaoili**  
Isabela State University
- 65 - 80 Effects of Biocontrol Product Bio P60 and Liquid Organic Fertilizer on The Development of Fusarium Wilt and Yield of Shallot  
**Loekas Soesanto<sup>1</sup>, Adi Maulana Yusup<sup>1</sup>, Murti Wisnu Ragil Sastyawan<sup>2</sup>, Endang Mugiastuti<sup>1</sup>, Woro Sri Suharti<sup>1\*</sup>**  
<sup>1</sup>Faculty of Agriculture, Jenderal Soedirman University  
<sup>2</sup>Faculty of Technique, Jenderal Soedirman University
- 81 - 90 Antagonistic Effect of Nitrogen Fertilizer and Rhizobium on Growth, Nodulation and Yield of Peanut (*Arachis hypogaea* L.) in Acidic Soil  
**Desy Setyaningrum<sup>1\*</sup>, Supriyono<sup>2</sup>, Riza Noermala Putri<sup>2</sup>**  
<sup>1</sup>Department of Agribusiness, Vocational School, Universitas Sebelas Maret  
<sup>2</sup>Department of Agrotechnology, Faculty of Agriculture, Universitas Sebelas Maret
- 91 - 103 Assessing Soil Nutrient and Biomass Contributions to Peatland Formation  
**M Edi Armanto\*, Elisa Wildayana, Momon Sodik Imanudin**  
Faculty of Agriculture, Sriwijaya University
- 104 - 115 Effects of Arbuscular Mycorrhiza-Enriched Bio-compost and Organic Fertilizer on Reducing Heavy Metal Absorption in Shallots  
**Muhammad Akhsan Akib<sup>1\*</sup>, Sarjiya Antonius<sup>2</sup>, Tutik Kuswinanti<sup>3</sup>, Syatrawati<sup>4</sup>, Tirta Kumala Dewi<sup>2</sup>, Entis Sutisna<sup>2</sup>**  
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<sup>3</sup>Department of Plant Pest and Disease, Faculty of Agriculture, Hasanuddin University  
<sup>4</sup>Study Program of Food Crop Production Technology, Pangkajene Islands State Polytechnic of Agriculture
- 116 - 124 Effects of Soil Ameliorants on Growth And Yield of Elephant Grass (*Pennisetum Purpureum*) in Post-Tin Mining Land  
**Tri Lestari\*, Nyayu Siti Khodijah, Nanda Sukowati Pratiwi, Deni Pratama**  
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# Editorial

Journal of Planta Tropika ISSN 0216-499X published by Study Program of Agrotechnology, Faculty of Agriculture, Universitas Muhammadiyah Yogyakarta, is journal presenting scientific articles of agricultural science (Journal of Agro Science). With full sense of gratitude to the Almighty Allah, Volume 13 Number 1 for the year of 2025 has been published.

In this edition, Journal of Planta Tropika presents ten research articles in the field of Agro sciences comprising soil and plant nutrition, plant protection, agrobiotechnology, post-harvest technology. The scientific articles discuss about:

(1) Thidiazuron-Induced Somatic Embryogenesis in *Cymbidium bicolor* Orchid In Vitro, (2) Growth and Yield of Mint (*Mentha spicata* L.) as Affected by Composition of Charcoal Husk and Organic Fertilizer, (3) Effects of Cricket and Fruit Fly Flour in Growth Media on *Beauveria bassiana* (Bals.) Vuill Pathogenicity Against *Zeugodacus cucurbitae* (Coquillett) Prepupae, (4) Antagonistic activity of *Trichoderma harzianum* against *Aspergillus parasiticus* and *Mucor circinelloides* in corn plant (*Zea mays* L.), (5) Formulation and Market Acceptability of Dragon Fruit (*Selenicereus undatus*) Flavored Mead, (6) Effects of Biocontrol Product Bio P60 and Liquid Organic Fertilizer on The Development of Fusarium Wilt and Yield of Shallot, (7) Antagonistic Effect of Nitrogen Fertilizer and Rhizobium on Growth, Nodulation and Yield of Peanut (*Arachis hypogaea* L.) in Acidic Soil, (8) Assessing Soil Nutrient and Biomass Contributions to Peatland Formation, (9) Effects of Arbuscular Mycorrhiza-Enriched Bio-compost and Organic Fertilizer on Reducing Heavy Metal Absorption in Shallots, (10) Effects of Soil Ameliorants on Growth And Yield of Elephant Grass (*Pennisetum Purpureum*) in Post-Tin Mining Land.

The editors would like to thank the authors, reviewers, executive editors, leaders and LRI UMY for their participation and cooperation. Our hope, this journal can be useful for readers or be a reference for other researchers and useful for the advancement of the agriculture.

Editors

# GUIDE FOR AUTHORS

## TYPE OF PAPERS

PLANTA TROPIKA receives manuscripts in the form of research papers in Bahasa Indonesia or English. The manuscript submitted is a research paper that has never been published in a journal or other publication.

## SUBMISSION

The submission of the manuscript is done through our journal website <http://journal.umy.ac.id/index.php/pt/index>. If you need information regarding the process and procedure for sending the manuscript, you can send it via email at [plantatropika@umy.ac.id](mailto:plantatropika@umy.ac.id). Editor's address: Program Studi Agroteknologi, Fakultas Pertanian, Universitas Muhammadiyah Yogyakarta, Jl. Brawijaya, Taman-tirto, Kasihan, Bantul, Telp (0274) 387646 psw 224, ISSN: 2528-7079.

## ARTICLE STRUCTURE

The submitted manuscripts should consist of 15-20 pages of A4 size paper with 12-point Times New Roman fonts, 1.5 spacing with left-right margin and top-bottom of the paper is 2.5 cm each. All manuscript pages including images, tables and references should be page-numbered. Each table or picture should be numbered and titled.

The systematic of the manuscript writing is as follows:

**TITLE** : The title should be written in a concise but informative manner describing the content of the research. Avoid abbreviations or formulas. Font style is Tahoma 18pt.

**AUTHOR NAMES** : The author names should be written in lowercase letters (only the first letter of the words is written in uppercase) and should be written from the first author and followed by the others along with the marker of each author's affiliation.

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**EMAIL** : Please list one of authors' email address used for paper's correspondence.

**ABSTRACT** : Abstract written in English. Abstract appears after the Title in the manuscript. Abstract must be solid consisting of an introduction and objectives, research methods, results, and conclusions. Abstract must be written in one paragraph. Libraries are not allowed to be written in the abstract section. Writing abbreviations should be avoided. Abstract consists of 150-200 words followed by keywords. Abstract is written in justify.

**INTRODUCTION** : This section describes: (i) the general background of the research (concise and clear), (ii) a review of the results of previous research that is relevant and up to date, (iii) clearly provides a statement of novelty (gap analysis) which contains the urgency and novelty of the research, as well as the objectives of the study. The introduction is written without numbering and / or pointers. The introduction is written in 750-1000 words.

**MATERIALS AND METHOD** : This section should state the time and place for conducting the research. All materials and methods used such as chemicals for analysis, treatment and experimental design must be clearly and concisely stated. The use of methods should be based on previous research. Materials and methods should be written in 400 - 600 words. Subsection heading might be applied if there are many sections appeared.

**RESULT AND DISCUSSION** : In this section the results and discussion must be written in one section. Both must be written in a continuous manner starting from the main results to supporting results and completed with discussion. The unit of measurement used must follow international standards. Equations are written in Times New Roman or Symbol fonts. If there are several equations, give each equation a number in sequence and place it on the far right, namely (1), (2), and so on. The use of signs is allowed to make equations more concise. Italic fonts are used for variables, bold for vectors. Example:

$$\alpha + \beta = \chi \quad (1)$$

Results and discussion should be written between 2500 - 3000 words. It can be grouped in several sub-section heading.

**CONCLUSION** : In this section, conclusions must be written clearly and concisely referring to the research results to answer the research objectives or hypotheses, and not repeat the discussion. Conclusions are written critically, logically and honestly based on existing facts, and be careful if there are generalizations. This section is written in paragraph form, not using numbering or bullets. Results and discussion should be written between 40-80 words.



**ACKNOWLEDGEMENT** : This section is used if needed. This section is provided for authors to express their gratitude to either the party who funded the research, facilities, or suggestions; also for a statement if the article is part of a thesis / dissertation.

**REFERENCES** : All libraries used should be noted in this section. The use of bibliography writing style follows the style of the American Psychological Association (APA) 6<sup>th</sup> Edition and is arranged in alphabetical order (<https://apastyle.apa.org/style-grammar-guidelines/references/examples>). Manuscripts must use a minimum of 30 references and 80% come from journals (**for the new submission starting January 2024**). The majority of the literature used consists of primary literature (published in the last 5 years). Unpublished data and personal communications are not allowed to be cited. Between one library and the next one separated by one space. It is mandatory to include the DOI of cited references, if available. **Author are suggested to use reference tools, such as Mendeley, Zotero and Endnote.**

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References are written in alphabetical order according to the rules below:

##### **REFERENCE TO A BOOK**

Pessarakli, M. (2001). *Handbook of Plant and Crop Physiology* (4th Ed.). CRC Press.

##### **REFERENCE TO A JOURNAL PUBLICATION**

Aiman, U., Tantriati, T., & Sriwijaya, B. (2017). Pemberian Macam Konsorsium Bakteri Hasil Isolasi Tumbuhan Pantai pada Kangkung (*Ipomoea reptans* Poir.). *Planta Tropika*, 5(1), 1–6. <https://doi.org/10.18196/pt.2017.065.1-6>

##### **REFERENCE TO A THESIS/DISSERTATION**

Miranda, C. (2019). *Exploring the lived experiences of foster youth who obtained graduate level degrees: Self-efficacy, resilience, and the impact on identity development* (Publication No. 27542827) [Doctoral dissertation, Pepperdine University]. PQDT Open. <https://pqdtopen.proquest.com/doc/2309521814.html?FMT=AI>

##### **REFERENCE TO AN ARTICLE IN PROCEEDING**

Sarjiyah, Setiawan, D. A., & Rineksane, I. A. (2021). Shallot extract enhance root growth in crystal guava (*Psidium guajava*) stem cuttings. *IOP Conference Series: Earth and Environmental Science*, 752(1), 012050. <https://doi.org/10.1088/1755-1315/752/1/012050>

##### **REFERENCE TO A REPORT GOVERNMENT**

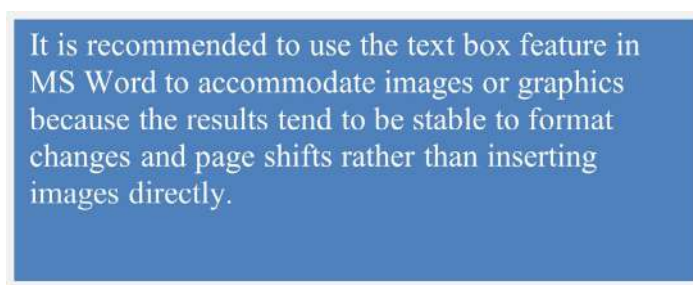
Ministry of Agriculture. (2019). *Taking time: Support for improve agriculture product* (MOA Publication No. 18-2059). Indonesia. Department of Crop Production, Ministry of Agriculture. <https://psp.pertanian.go.id/>



**TABLE AND FIGURE FORMATTING :** Table labels are placed on top of the table, while image labels are at the bottom of the image. When referring to a table, write down a specific table, for example Table 1. Examples of writing tables and figures are as follows.

**Table 1.** Table format (Verdana 10pt, align left, space 1, spacing before 0 pt, after 0 pt, without a period)

Head of table	Head of table column	
	Sub-column header	Sub-column header
Contents	Contents	Contents



**Figure 1.** Examples of image captions (Verdana 10pt, center, space 1, spacing before 0 pt, after 0 pt, without a period)