

# BUKTI KORESPONDENSI ARTIKEL JURNAL

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Research Article

## Genetic Diversity and Its Relationship of *Dendrobium* (Orchidaceae) Based on Bioactive Compounds and Their Biological Activities: A Meta-Analysis

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**Abstract:** Information on genetic diversity and its relationship is fundamental for the preservation and improvement of orchid germplasm. For *Dendrobium*, such information, particularly by a meta-analysis, was limited. The study aimed to assess the genetic diversity and relationships of *Dendrobium* germplasm based on bioactive compounds, their biological activities, and plant organs by a meta-analysis approach. A total of 51 species of *Dendrobium* have been collected and identified as producing bioactive compounds, including their biological activities

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Decision Letter-1

Dear Dindin Hidayatul MURSYIDIN,

**Decision:** Minor Revision

**Decision Date:** September 19, 2023

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Reviewer-1

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- Yes
2. If it is research article, is it new and original? If it is review article is it up-to-date and original?:  
- Yes
3. Is the purpose of the study obvious?:  
- Yes
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- Yes
5. Is the title of the article appropriate for the matter of the study?:  
- Yes
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- Yes

7. The contribution percentage of the study to science and/or practice?:  
- *intermediate*
8. Is the expression sufficient in the study?:  
- Yes
9. Are the references relevant and sufficient to subject?:  
- Yes
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- Yes

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Comments and Suggestions for Author: revised and completed as recommended

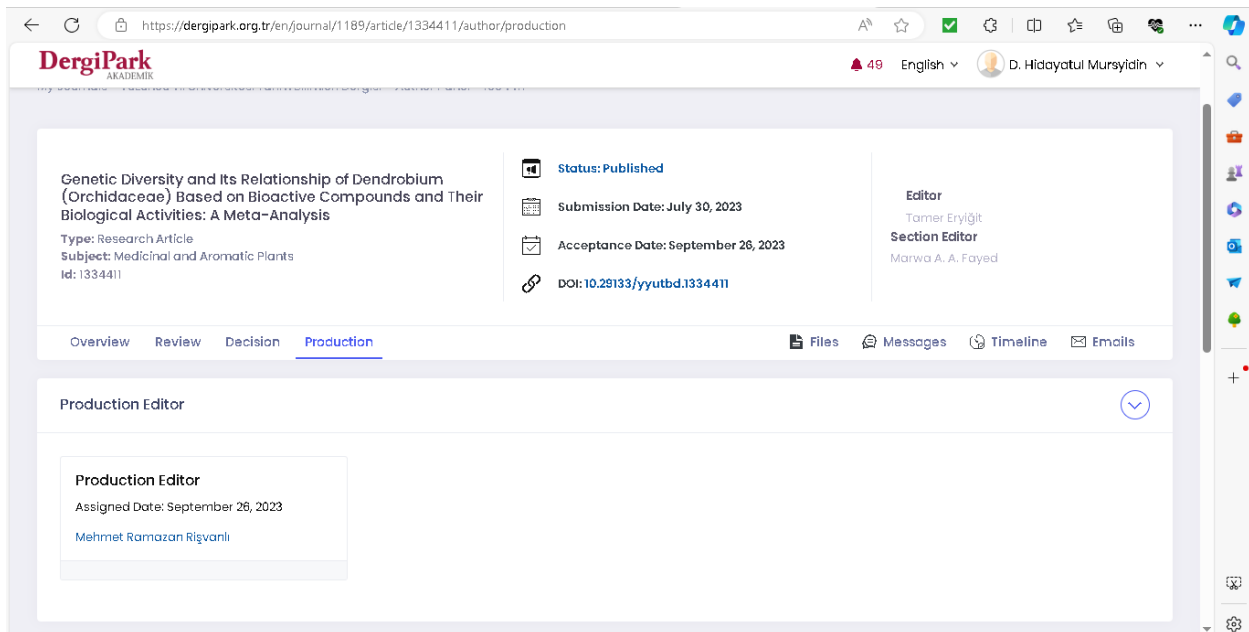
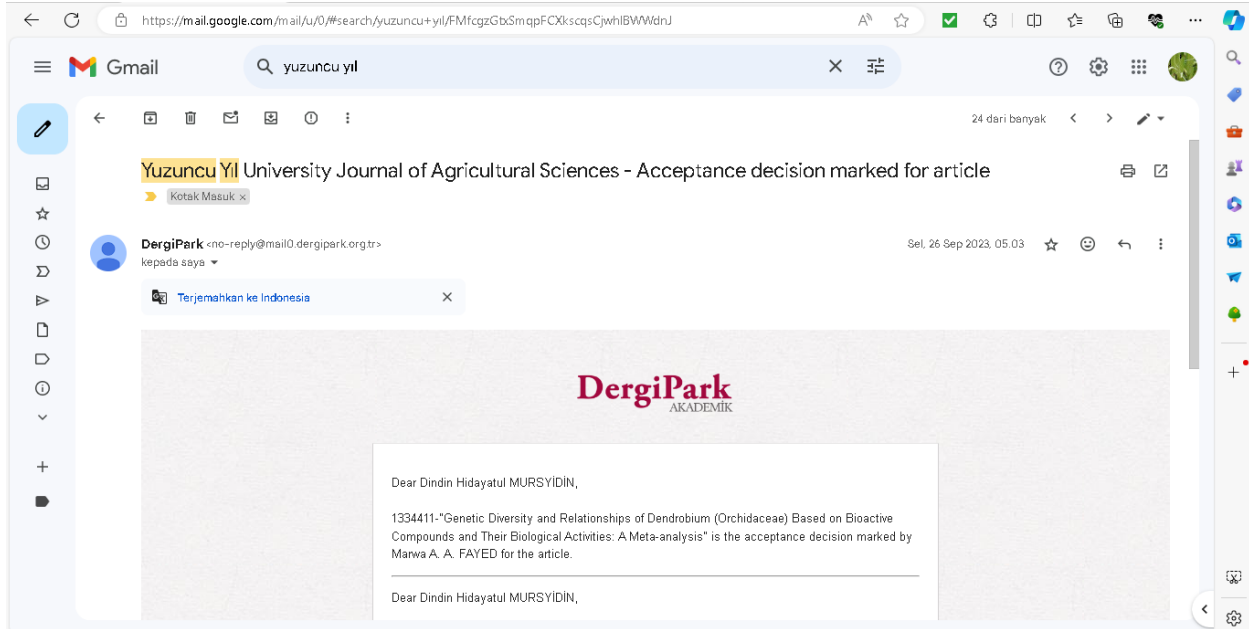
Recommendation: Accepted

Decision Letter-2

Dear Dindin Hidayatul MURSYIDIN,

**Decision:** Accepted

**Decision Date:** September 26, 2023



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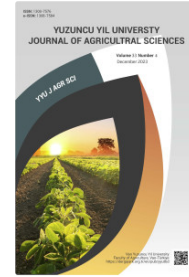
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Dindin Hidayatul Mursyidin \* Deni Setawan Muhammad Rasyid Azka

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### Abstract

Information on genetic diversity and its relationship is fundamental for the preservation and improvement of orchid germplasm. For Dendrobium, such information, particularly by a meta-analysis, was limited. The study aimed to assess the genetic diversity and relationships of Dendrobium germplasm based on bioactive compounds, their biological activities, and plant organs by a meta-analysis approach. A total of 51 species of Dendrobium have been collected and identified as producing bioactive compounds, including their biological activities and plant organs (parts). In this case, the highest genetic diversity was shown by polyphenols ( $H'$  index = 0.90) as substances, neuroprotective ( $H' = 0.80$ ) for activity, and the leaf



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