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Phylogenetic positions of three *Amorphophallus* species natively growing in the Meratus Mountains, South Kalimantan, Indonesia

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Abstract. Mursyidin DH, Hernanda MA. 2021. Phylogenetic positions of three *Amorphophallus* species natively growing in the Meratus Mountains, South Kalimantan, Indonesia. *Biodiversitas* 22: 2821-2828. Information on genetic diversity and relationships (phylogenetic position) of germplasm is essential for conservation and breeding programs in the future. Here, we focused on determining the genetic diversity and phylogenetic positions of three native *Amorphophallus* species from the Meratus Mountains, South Kalimantan, Indonesia, using the *rbcL* marker. The results show that this germplasm has a medium level of genetic diversity (0.63). The phylogenetic analyses (NJ, ML, and MP) revealed that *Amorphophallus* from the region has a unique or specific relationship position. In this case, *A. muelleri* with an accession number of MT818204 and MT818205 are grouping and have close relatedness with *A. muelleri* previously deposited in GenBank (AF497087.1). Three samples of *A. paeonifolius* (MT818202, MT818203, and MT818206) have also clustered with the same species (DQ012500.1; AF497091.1). An interesting result was shown by *A. borneensis* (MT818211) that demonstrated a close relationship with *A. tinekeae* (DQ012505.1) in NJ and ML analyses, not with a similar species (DQ012484.1) in MP analysis. Further, a bootstrap analysis on an earlier analysis supported the separation. Thus, this information is valuable in supporting the conservation and breeding programs of this germplasm, both locally and globally.

Keywords: Conservation, Genetic diversity, Phylogeny, Plant breeding, Wild species.

The screenshot shows a web browser window with the following details:

- Address Bar:** https://smujo.id/biodiv/login
- Header:** Biodiversitas Journal of Biological Diversity. Navigation links include Home, About, Policy, Submissions, Current, Archives, Announcements, Smujo, Events, Career, Register, and Login.
- Content Area:**
 - Login Form:** Fields for Username (dindinhm) and Password (*****).
 - Forgot your password?** Link.
 - Keep me logged in** checkbox.
 - Buttons:** Login (green), Register (grey).
- Information Sidebar:** Titled "Information". Sections include For Readers, For Authors, For Librarians, and Journals List (listing Biodiversitas Journal of Biological Diversity, Nusantara Bioscience, Prosiding Seminar Nasional Masyarakat Biodiversitas Indonesia, Asian Journal of Agriculture, and Asian Journal of Ethnobiology).
- Taskbar:** Shows various pinned icons (File Explorer, Edge, Google, Firefox, Chrome, Mail, Excel, Word) and system status (5:50 PM, ENG, 5/30/2023).

This screenshot shows the OJS (Open Journal Systems) author dashboard for submission ID 8393. The page title is "Mursyidin et al. / Phylogenetic positions of three Amorphophallus species natively growing in the M...". The top navigation bar includes links for "Upload File" and "Library". Below the title, there are tabs for "Workflow" and "Publication", with "Publication" being active. Under "Publication", sub-tabs include "Submission", "Review", "Copyediting", and "Production".

The "Submission Files" section lists a single file: "40935-1 dindinhm, Phylogenetic position of native Amorphophallus- Mursyidin & Hernanda 2021.docx" (Article Text, April 18, 2021). A "Download All Files" button is present.

The "Pre-Review Discussions" section has a "Add discussion" button. The Windows taskbar at the bottom shows various pinned icons and the date/time as 6:02 PM 5/30/2023.

This screenshot shows the OJS author dashboard for submission ID 8393. The "Workflow" tab is active, and the "Review" sub-tab is selected. The "Round 1" status is shown as "Revisions have been submitted." Below this, the "Notifications" section shows a message from "[biodiv] Editor Decision" dated 2021-04-20 08:45 AM.

The "Reviewer's Attachments" section lists a file: "41068-1 , 8393-Article Text-commented.doc" (April 20, 2021). The Windows taskbar at the bottom shows various pinned icons and the date/time as 6:02 PM 5/30/2023.

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English View Site dindinhm

Revisions

41239-1 Article Text, A-8393-Article Text-Revised.doc April 23, 2021 Article Text

41240-1 Other, Responding to the Reviewer's Comments.docx April 23, 2021 Other

Review Discussions

Name	From	Last Reply	Replies	Closed
Uncorrected Proof	dewinurpratiwi 2021-04-24 12:00 PM	dindinhm 2021-04-25 12:48 AM	1	<input type="checkbox"/>
BILLING	dewinurpratiwi 2021-04-24 12:03 PM	dewinurpratiwi 2021-04-28 04:19 AM	2	<input type="checkbox"/>