

4. ID-2068-IJNPR (Indian Journal of Natural Products and Resources)

CHEMICAL COMPONENTS AND ANTIOXIDANT ACTIVITIES OF METHANOL EXTRACT OF SYZYGIUM POLYCEPHALUM MIQ. STEM BARK (MYRTACEAE)

Tukiran, Andika Pramudya Wardana, Nurul Hidajati, Kuniyoshi Shimizu
Volume: 10; No/Issue: 2; Tahun Terbit: 2019; Hal: 127 – 136

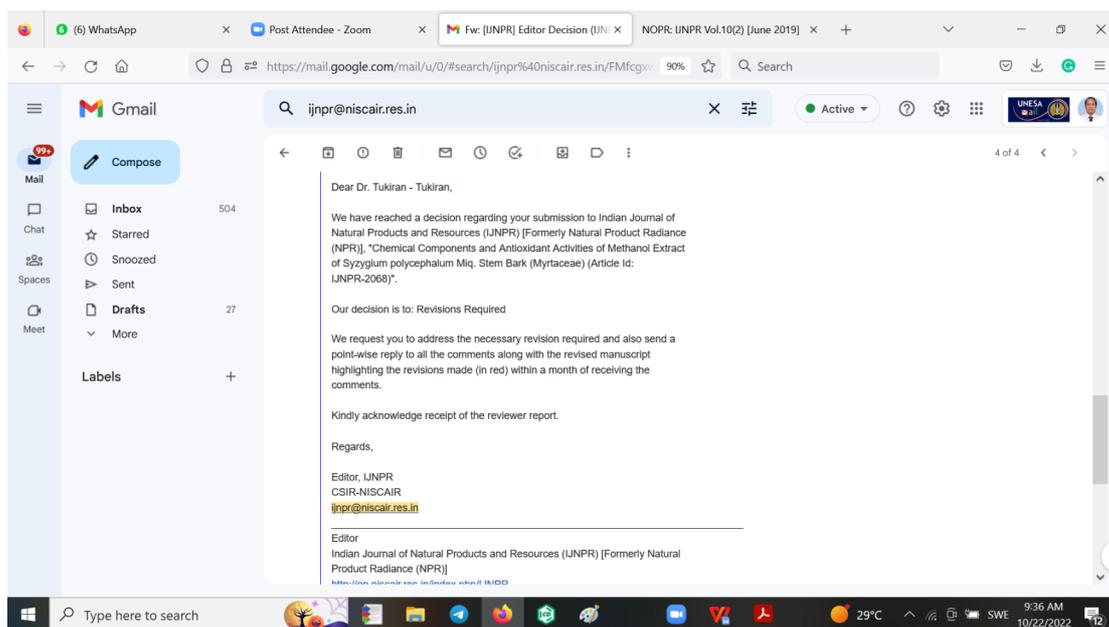
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1. SUBMISSION PAPER (Mar 3, 2019) and RESPONDED by EDITOR in CHIEF

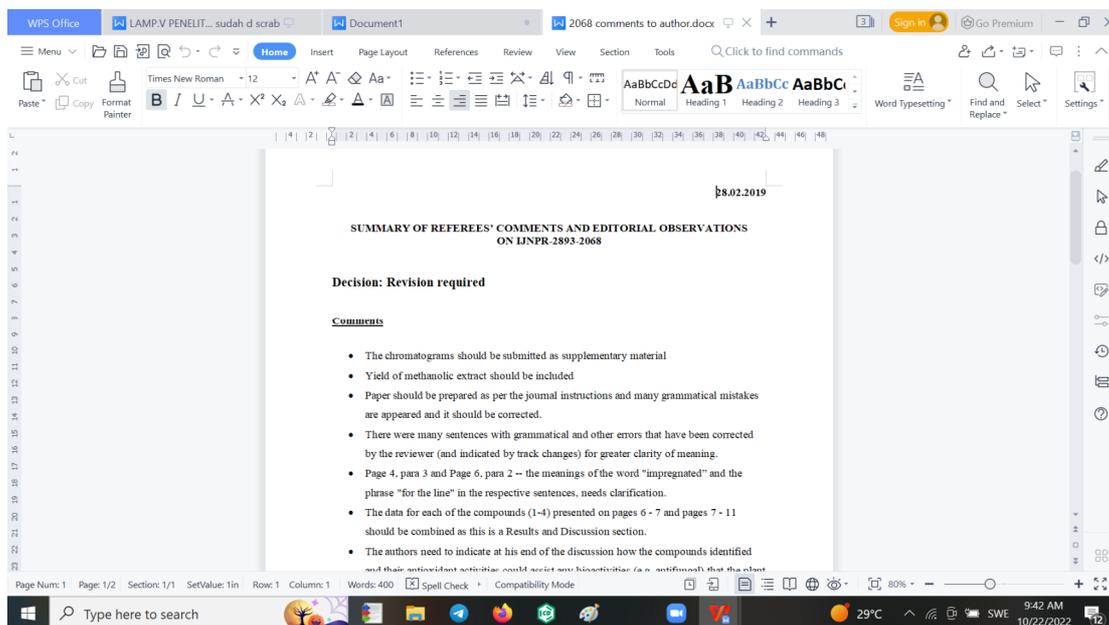
The screenshot shows a Gmail interface with a search bar for 'ijnpr@niscar.res.in'. The main email is titled 'Fw: [IJNPR] Editor Decision (IJNPR-2068)' and is marked as 'External'. The sender is Bitu Tukiran <btukiran@yahoo.com> and the recipient is Andika PW <andikapw83@yahoo.com>. The email content includes a forwarded message from the editor, OP NISCAIR, dated March 1, 2019, regarding the decision on manuscript IJNPR-2068. The forwarded message text is: 'Dear Author, Please find the reviewer report.' The system clock at the bottom right shows 9:32 AM on 10/22/2022.

The screenshot shows a Gmail interface with a search bar for 'ijnpr@niscar.res.in'. The main email is a response from Bitu Tukiran <btukiran@yahoo.com> to the editor, dated March 1, 2019. The email content includes a forwarded message from the editor and a response from the author. The response text is: 'Dear Mrs. Pramila Majumdar Editor, IJNPR CSIR-NISCAIR Thank you for giving good information and we are very happy with the decision that has been taken regarding to our manuscript. I am ready and willing to make a revision of our manuscript, but apologize we cannot download the reviewer report. Would you like to re-upload the reviewer report. Thank you. Best regards, Tukiran'. The system clock at the bottom right shows 9:34 AM on 10/22/2022.

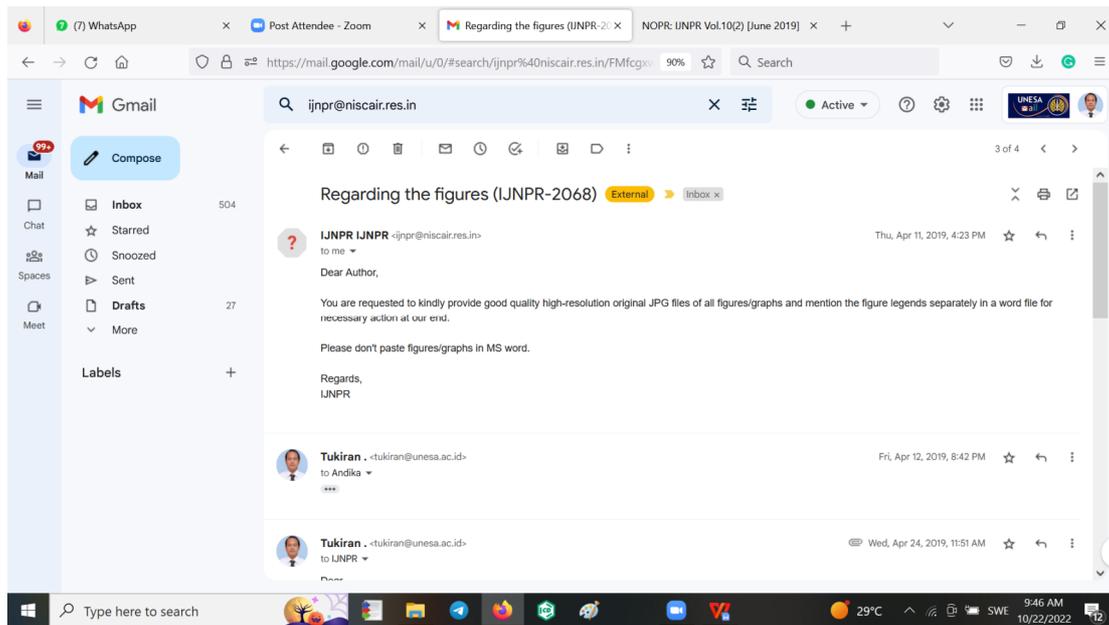
2. DECISION TO PAPER (REVISIONS REQUIRED)



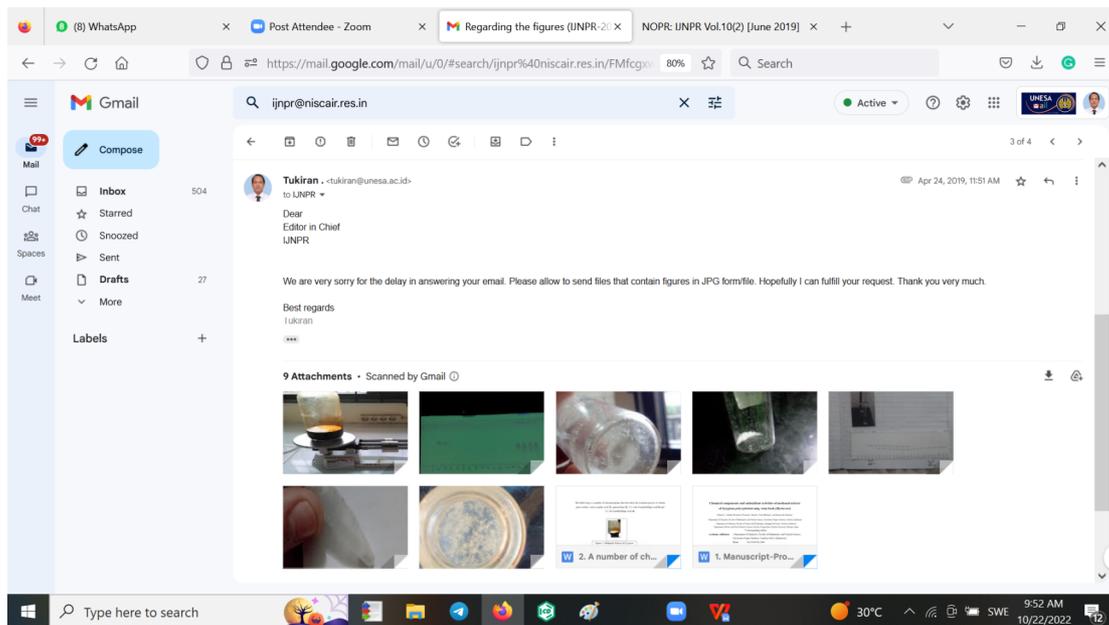
3. COMMENTS OF REVIEWERS TO AUTHOR FOT ID.2068-IJNPR (2019)



4. REQUESTED TO PROVIDE GOOD QUALITY HIGH-RESOLUTION ORIGINAL JPG FILES



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6. Good Quality High-Resolution Original Jpg Files Of All Figures/Graphs

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Paste | Copy | Format Painter | Times New Roman | 12 | Bold | Italic | Underline | Text Color | Background Color | Paragraph | Styles | Word Typsetting | Find and Replace | Settings

The following is a number of chromatograms that describes the isolation process to obtain pure isolates, such as gallic acid (1), pinostrobin (2), 3,3',4-tri-O-methylgallic acid (3) and 3,3'-di-O-methylgallic acid (4).

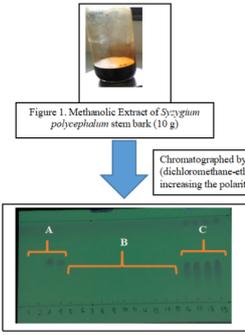


Figure 1. Methanolic Extract of *Syzygium polyccephalum* stem bark (10 g)

Chromatographed by VLC with eluents (dichloromethane-ethyl acetate-methanol for increasing the polarity)

Page Num: 1 | Page: 1/2 | Section: 1/1 | SetValue: 1in | Row: 1 | Column: 1 | Words: 373 | Spell Check

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Chemical components and antioxidant activities of methanol extract of *Syzygium polyccephalum* miq. stem bark (*Myrtaceae*)

Tukiran^{a,*}, Andika Pramudya Wardana^a, Mujati^b, Nurul Hidiyati^a, and Kuniyoshi Shimizu^c

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Running Title:
Chemical components from *Syzygium polyccephalum*

Abstract
This study aimed to reveal chemical components and screen antioxidant activity of methanolic extract of *Syzygium polyccephalum* stem bark. The chemical components were isolated by using column chromatographic techniques and determined by spectroscopic methods (UV-Vis, FTIR, MS, and NMR) and comparison with literature data, in which the antioxidant activity was performed using 2,2'-diphenyl-1-picrylhydrazyl (DPPH). The present investigation resulted on four compounds involving gallic acid, pinostrobin, 3,4,3'-tri-O-methylgallic acid, and 3,3'-di-O-methylgallic acid. The four

Page Num: 1 | Page: 1/18 | Section: 1/1 | SetValue: 1in | Row: 1 | Column: 1 | Words: 6344 | Spell Check

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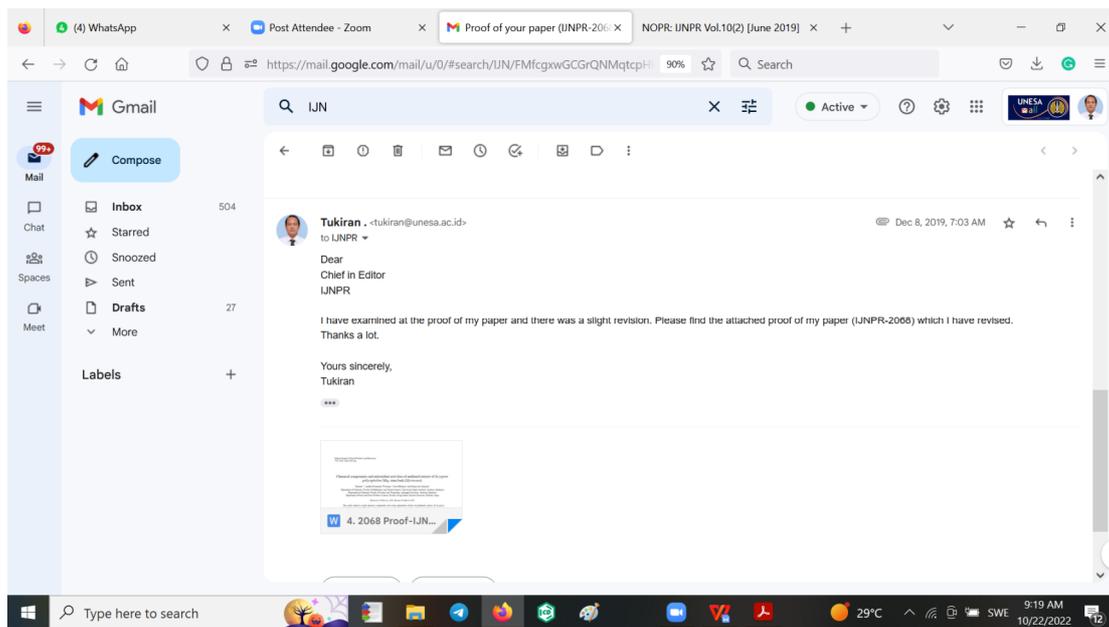
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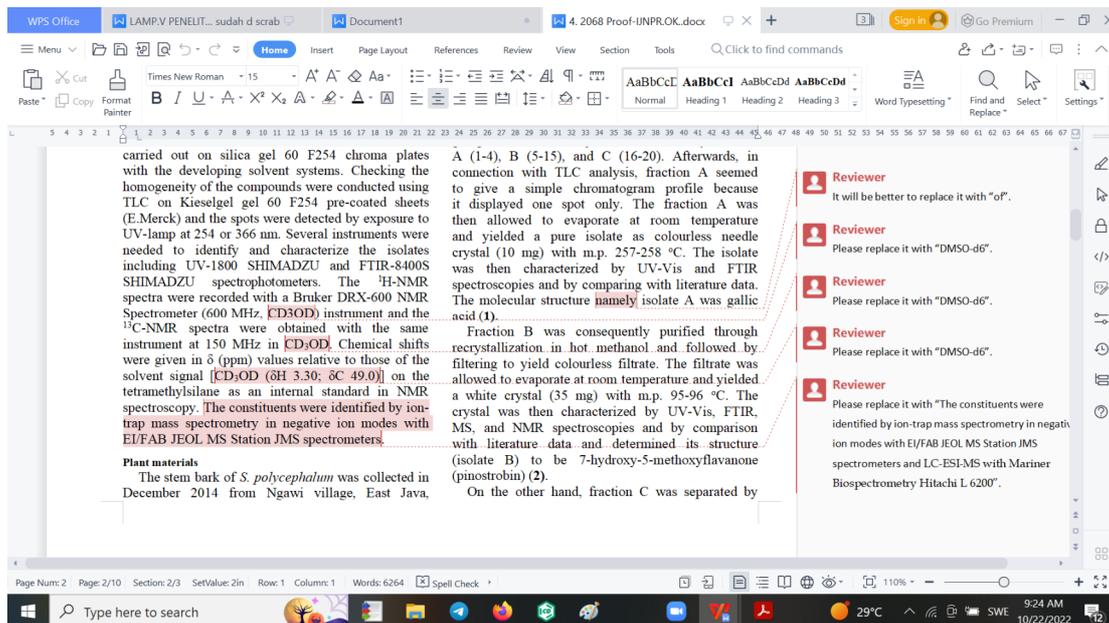
CORRECTED PAPER FROM REVIEWERS

The screenshot shows a WPS Office document titled "2068 Proof.docx". The document is a journal article. The header information is: "Indian Journal of Natural Products and Resources Vol. 10(2), June 2019, pp". The title is "Chemical components and antioxidant activities of methanol extract of *Syzygium polycephalum* Miq. stem bark (*Myrtaceae*)". The authors are "Tukiran^{1*}, Andika Pramudya Wardana², Nurul Hidajati¹ and Kumiyoishi Shimizu³". The affiliations are: ¹Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya, Surabaya, Indonesia; ²Department of Chemistry, Faculty of Science and Technology, Airlangga University, Surabaya, Indonesia; ³Department of Forest and Forest Products Sciences, Faculty of Agriculture, Kyushu University, Fukuoka, Japan. The article includes a "Received" date of 21 February 2018 and a "Revised" date of 28 March 2019. The abstract states: "This study aimed to reveal chemical components and screen antioxidant activity of methanolic extract of *Syzygium polycephalum* stem bark. The chemical components were isolated by using column chromatographic techniques and determined by spectroscopic methods (UV-Vis, FTIR, MS, and NMR) and comparison with literature data, in which the antioxidant activity was performed using 2,2'-diphenyl-1-picrylhydrazyl (DPPH). The present investigation resulted in four compounds involving gallic acid, pinostrobin, 3,4,3'-tri-*O*-methylgallic acid, and 3,3'-di-*O*-methylgallic acid. The four compounds were all in the form of phenolic compounds found from the extract whereas 3,4,3'-tri-*O*-methylgallic acid and 3,3'-di-*O*-methylgallic acid were ellagic acid derivatives. The methanolic extract, the four compounds, and vitamin C (as positive control) showed antioxidant activity against DPPH with the IC₅₀ value of 99.9; 10.0; 183.2; 72.1; 63.3; and 13.9 µg/mL, respectively. The antioxidant activity of gallic acid was more active than that of vitamin C. The present study confirms that *Syzygium polycephalum* rich in phenolic compounds and natural antioxidants." The document is displayed in WPS Office with a standard toolbar and a Windows taskbar at the bottom.

REPLYING TO PROOF READING PAPER



BUKTI PROOF READ (REVISED) PAPER



ANNOUNCEMENT FOR PUBLISHING

The screenshot shows a Gmail interface with the search bar containing "Indian Journal of Natural Products and Resources". The main email is from "IJNPR IJNPR" dated Dec 27, 2019, 5:27 PM. The subject is "IJNPR June 2019 full text hosted on NOPR". The body text reads: "Dear Authors, We have uploaded full text of IJNPR June 2019 issue on NOPR & is available at <http://nopr.niscair.res.in/handle/123456789/52778>. You may download the PDF file of the Research Paper." Below the email, there are two replies from "Tukiran" dated Dec 30, 2019, 9:05 AM and 9:42 AM.

The screenshot shows the NIScPR Online Periodicals Repository website. The header includes the NIScPR logo and the text "NIScPR Online Periodicals Repository". Below the header, there is a search bar and a "Sign on to:" dropdown. The main content area displays a list of articles for June 2019. The table below summarizes the visible entries:

aspects	Deepa H; Saraf, Shubhini A	[June 2019]	next >
Antioxidant and cytotoxic activities of <i>Isaria amoerosea</i> Henn.: An entomopathogenic fungus from Darjeeling Hills, Eastern Himalaya	Chhetri, Abhijit; Pokhrel, Yubraj; Shahi, Nerina; Lama, Dorjay; Chhetri, Dhani Raj	IJNPR Vol.10(2) [June 2019] 111-118	
Cytotoxic effect of methanolic extracts and partially purified fractions of some medicinal plants used in traditional medication	Badgujar, Nutan V.; Mistry, Kinnari N.; Rank, Dharamshibhai N.; Joshi, Chaitanya G.	IJNPR Vol.10(2) [June 2019] 119-126	
Chemical components and antioxidant activities of methanol extract of <i>Syzygium polycepalum</i> Miq. stem bark (Myrtaceae)	Tukiran, Wardana, Andika Pramudya, Hidayati, Nurul, Shimizu, Kuniyoshi.	IJNPR Vol.10(2) [June 2019] 127-136	
Comparative study of the production of coumarins and furanocoumarins in three Rutaceae species	Bergheul, Saïda; Limones-Méndez, Mariana; Grosjean, Jérôme; Hehn, Alain; Oly, Alexandre; Berkani, Abdellah	IJNPR Vol.10(2) [June 2019] 137-142	
Analysis of metals and persistent organic pollutants in ethyl acetate extract of <i>Peltophorum africanum</i>	Okeleye, Benjamin I.; Nwampe, Seteno K.O.; Okudoh, Vincent I.	IJNPR Vol.10(2) [June 2019] 143-149	
Green synthesis, characterization and optimization of silver nanoparticles using honey and	Habsi, Fatma Sabeeah Al; Dholl, Heba Mohammed Al; Al-musallami, Saleema Tahani	IJNPR Vol.10(2) 150-157	

On the right side of the page, there is a "Subject" list with counts: Antioxidant (2), 3,3'-di-O-methylelagic acid (1), 3,4,3'-tri-O-methylelagic acid (1), Antimicrobial (1), Antioxidant activity (1), Apoptosis (1), Cell viability (1), Characterization (1), and Chemicals (1).

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Title: Chemical components and antioxidant activities of methanol extract of *Syzygium polycepalum* Miq. stem bark (Myrtaceae)

Authors: [Tukiran](#)
[Wardana, Andika Pramudya](#)
[Hidajati, Nurul](#)
[Shimizu, Kuniyoshi](#)

Keywords: Antioxidant;Gallic acid;Myrtaceae;Pinostrobin;Syzygium polycepalum;3,4,3'-tri-O-methylelagic acid;3,3'-di-O-methylelagic acid

Issue Date: Jun-2019

Publisher: NISCAIR-CSIR, India

IPC Code: Int. cl. (2015.01)-A61K 36/00, A61K 36/61, A61P 39/00

Abstract: This study aimed to reveal chemical components and screen antioxidant activity of methanolic extract of *Syzygium polycepalum* stem bark. The chemical components were isolated by using column chromatographic techniques and determined by spectroscopic methods (UV-Vis, FTIR, MS, and NMR) and comparison with literature data, in which the antioxidant activity was performed using 2,2'-diphenyl-1-picrylhydrazyl (DPPH). The present investigation resulted in four compounds


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involving gallic acid, pinostrobin, 3,4,3'-tri-O-methylelagic acid, and 3,3'-di-O-methylelagic acid. The four compounds were all in the form of phenolic compounds found from the extract whereas 3,4,3'-tri-O-methylelagic acid and 3,3'-di-O-methylelagic acid were ellagic acid derivatives. The methanolic extract, the four compounds, and vitamin C (as positive control) showed antioxidant activity against DPPH with the IC₅₀ value of 99.9; 10.0; 183.2; 72.1; 63.3; and 13.9 µg/mL, respectively. The antioxidant activity of gallic acid was more active than that of vitamin C. The present study confirms that *Syzygium polycepalum* is rich in phenolic compounds and natural antioxidants.

Page(s): 127-136

ISSN: 0976-0512 (Online); 0976-0504 (Print)

Appears in Collections: [IJNPR Vol.10\(2\) \[June 2019\]](#)

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File	Description	Size	Format
IJNPR 10(2) 127-136.pdf		372.81 kB	Adobe PDF <input type="button" value="View/Open"/>

Sumber:
<http://nopr.niscair.res.in/handle/123456789/52782>

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File	Description	Size	Format
IJNPR 10(2) 127-136.pdf		372.81 kB	Adobe PDF

PUBLISHING PAPER TO IJNPR [10(2), JUNE 2019, pp 127136]

The screenshot shows the Adobe Acrobat Reader displaying the title page of a research paper. The document title is "Chemical components and antioxidant activities of methanol extract of *Syzygium polycephalum* Miq. stem bark (Myrtaceae)". The authors are Tukiran^{1*}, Andika Pramandya Wardana², Nurul Hidayati¹, and Kunyoshi Shimizu³. The affiliations are: ¹Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya, Surabaya, Indonesia; ²Department of Chemistry, Faculty of Science and Technology, Airlangga University, Surabaya, Indonesia; and ³Department of Forest and Forest Products Sciences, Faculty of Agriculture, Kyushu University, Fukuoka, Japan. The paper was received on 21 February 2018 and revised on 28 March 2019. The abstract states: "This study aimed to reveal chemical components and screen antioxidant activity of methanolic extract of *Syzygium polycephalum* stem bark. The chemical components were isolated by using column chromatographic techniques and determined by spectroscopic methods (UV-Vis, FTIR, MS, and NMR) and comparison with literature data, in which the antioxidant activity was performed using 2,2'-diphenyl-1-picrylhydrazyl (DPPH). The present investigation resulted in four compounds involving gallic acid, pinostrobin, 3,4,3'-tri-*O*-methylgallic acid, and 3,3'-di-*O*-methylgallic acid. The four compounds were all in the form of phenolic compounds found from the extract whereas 3,4,3'-tri-*O*-methylgallic acid and 3,3'-di-*O*-methylgallic acid were ellagic acid derivatives. The methanolic extract, the four compounds, and vitamin C (as positive control) showed antioxidant activity against DPPH with the IC₅₀ value of 99.9; 10.0; 183.2; 72.1; 63.3; and 13.9 µg/mL, respectively. The antioxidant activity of gallic acid was more active than that of vitamin C. The present study confirms that *Syzygium polycephalum* is rich in phenolic compounds and natural antioxidants." The Adobe Acrobat Reader interface shows the file name "IJNPR 10(2) 127-136.pdf" and various toolbars.