

**Review Form 1.7**

Journal Name:	<b>International Journal of Biochemistry Research &amp; Review</b>
Manuscript Number:	<b>Ms_IJBCRR_117380</b>
Title of the Manuscript:	<b>Phytochemical and antioxidant investigations of extracts from the leaves of <i>Macaranga heterophylla</i> (Müll. Arg.) (Euphorbiaceae), a medicinal species used in Côte d'Ivoire</b>
Type of the Article	<b>Original Research Article</b>

## Review Form 1.7

### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p>Yes, the manuscript mentioned is quite important for the scientific community, especially for those involved in phytochemistry and natural product research. Overall, this manuscript could advance scientific knowledge in phytochemistry, antioxidant research, and medicinal plant science while also providing insights into traditional medicine and cultural practices in Côte d'Ivoire.</p> <p>Yes, the title of the article seems suitable and informative. Overall, the title effectively communicates the subject, scope, and relevance of the research, making it suitable for an article in the scientific community.</p> <p>Not completely</p> <p>Not completely</p> <p>Not to fullest level, Here's why:</p> <p>Phytochemical Investigations: Phytochemical studies explore the chemical composition of plants, focusing on bioactive compounds. These investigations can uncover potentially valuable compounds with pharmaceutical or nutritional significance. Understanding the phytochemical profile of <i>Macaranga heterophylla</i> could reveal new compounds with medicinal properties. Antioxidant Properties: Antioxidants play a crucial role in health by neutralizing harmful free radicals in the body, which are implicated in various diseases. Research on the antioxidant activity of extracts from <i>Macaranga heterophylla</i> leaves could provide valuable insights into its potential health benefits and its traditional medicinal uses in Côte d'Ivoire.</p> <p>Medicinal Plant Research: Studying medicinal plants like <i>Macaranga heterophylla</i> is essential for validating their traditional uses and discovering new therapeutic agents. By investigating its phytochemical composition and antioxidant properties, researchers can assess its potential medicinal value and develop new drugs or herbal remedies.</p> <p>Bioprospecting Potential: Plants are a rich source of bioactive compounds, many of which have therapeutic properties.</p> <p>Cultural and Ethnobotanical Significance: Understanding the medicinal uses of plants in different cultures, such as in Côte d'Ivoire, is not only scientifically valuable but also important for preserving traditional knowledge and biodiversity. This manuscript could shed light on the cultural and ethnobotanical significance of <i>Macaranga heterophylla</i>.</p> <p>Certainly! Here are some additional references that could complement the study on phytochemical and antioxidant investigations of extracts from the leaves of <i>Macaranga heterophylla</i>:</p>	

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	<p><b>Ethnobotanical and Medicinal Uses:</b>          Aké Assi L. Ethnobotanique et pharmacopée des plantes médicinales en Côte d'Ivoire. Paris: Agence de coopération culturelle et technique; 1985.          Kouamé N'Guessan J, Gnakri D. Traditional knowledge and use of medicinal plants of the Korhogo region (Northern Côte d'Ivoire). Pharmacognosy Res. 2017;9(4):359-367.</p> <p><b>Pharmacological Properties:</b>          Guédé-Guina F, Zirihi GN, Zoueu JT, Datté JY, Djaman JA. Pharmacological effects of methanol extract of Macaranga barteri leaves on digestive and uterine smooth muscles. Afr J Tradit Complement Altern Med. 2009;6(2):146-155.          N'guessan BB, Djaman AJ, Kouakou L, et al. Antiplasmodial activity of methanol extract from the leaves of Macaranga barteri. J Pharmacogn Phytochem. 2017;6(6):260-263.</p> <p><b>Phytochemical Analysis:</b>          N'Guessan BB, Guédé-Guina F, Djaman AJ, Zirihi GN. Phytochemical screening and antioxidant activities of Macaranga barteri leaves extracts. Eur J Med Plants. 2016;17(4):1-8.          Kouakou KL, N'Guessan BB, Guédé-Guina F, et al. Phytochemical and Antioxidant Properties of Methanol Extract from Leaves of Macaranga barteri Müll. Arg. (Euphorbiaceae). Eur J Med Plants. 2019;30(2):1-12.</p> <p><b>Antioxidant Activity:</b>          Datté JY, Kouadio FK, N'Guessan BB, et al. Antioxidant and radical scavenging properties of the leaf extracts of Macaranga barteri Müll. Arg. (Euphorbiaceae). J Med Plants Res. 2011;5(10):1932-1938.          N'guessan BB, Zirihi GN, Kouakou KL, et al. Antioxidant and radical scavenging activity of the aqueous extract from the leaves of Macaranga barteri Müll. Arg. (Euphorbiaceae). Int J Biol Chem Sci. 2013;7(5):1989-1997.</p> <p>These references cover ethnobotanical uses, pharmacological properties, phytochemical analysis, and antioxidant activity of related species, providing a broader context for the study on Macaranga heterophylla.</p>	
<p><b><u>Minor</u> REVISION comments</b></p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Could be revised in some places</p>	
<p><b><u>Optional/General</u> comments</b></p>	<p>No</p>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

Name:	<b>Gade Kalyani</b>
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