## SCIENCEDOMAIN international

www.sciencedomain.org



## **SDI Review Form 1.6**

Journal Name:	South Asian Research Journal of Natural Products
Manuscript Number:	Ms_SARJNP_46718
Title of the Manuscript:	Antioxidant Potential and anti-sickling activity of different organs of Curcuma longa: effect of total polyphenol content and correlation of the antioxidant capacity on anti-sickling activity
Type of the Article	Original Research Article

## **General guideline for Peer Review process:**

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline)

Created by: EA Checked by: ME Approved by: CEO Version: 1.6 (10-04-2018)

# SCIENCEDOMAIN international www.sciencedomain.org



# **SDI Review Form 1.6**

# **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)
<u>Compulsory</u> REVISION comments		The result of th
	1. Since the author doesn't isolate the polyphenols, it is difficult to involve these	
	molecules in the study title. Curcuma longa is rich in others several molecules	
	apart from polyphenols. these molecules possess divers activities which were probably benefic in the experience.	
	probably beliefic in the experience.	
	2. In the abstract, the study design and the methodology aren't well understood. there isn't a link between <i>curcuma longa</i> , blood an anti- sickling activity samples.	
	ish t a link between curcuma longa, blood an anti- sickling activity samples.	
	3. I disapprove the structure of the introduction. There is not the justification of the	
	use of Curcuma longa to avoid sickling blood. In this introduction, the author should	
	bring out the Curcuma longa molecules and their properties, follow by the	
	justification of its use as anti-sickling diseases.	
	I propose the following structure for the introduction	
	*1 <sup>st</sup> paragraph: gives the synthetic information on sickle cell disease (definition, origin,	
	repercussions)	
	*2 <sup>nd</sup> paragraph: information on previous strategies to eradicate sickle cell disease and	
	why research should continuous in the domain.	
	* 3 <sup>rd</sup> paragraph: introduces Curcuma <i>longa</i> (definition, molecules, molecule properties	
	) and justifies why it use as anti-sickling diseases is better than previous drugs. This	
	last paragraph will end with the general objective of the work.	
	4. The 1 <sup>st</sup> step of the materials and methods of this work must be focused on plant material	
	used (Curcuma longa).	
	5. Blood was collected in which number of patients? Age of the patients? Men or women?	
	6. How the author collects the blood (method)?	
	7. Why the concentrations of different parts of the plant macerated in 100 mL of methanol	
	during 24 hours were different. I hope that the quantity of bioactive molecules and the	
	intensity of their activities could change with the concentration of the plant powder	
	macerated. (the same question for aqueous extracts of various organs of C. longa).	

Checked by: ME Created by: EA Approved by: CEO Version: 1.6 (10-04-2018)

#### SCIENCEDOMAIN international

www.sciencedomain.org



#### **SDI Review Form 1.6**

- 8. The sub-title "c" is already including in "b" (b. Preparation of dry aqueous and methanol extracts; c. Preparation of dry aqueous extracts of various organs of *C. longa*).
- 9. The protocol indicate how the author has used the *Curcuma longa* in order to avoid the Sickle cell disease is absent.
- 10. The interpretation of the result is before the tables. The author should put the superscript alphabetic letters (a, b, c, ...) or the p-value to facilitate the lecture of the data in the tables.
- 11. Puts all the data decimal part in the text and in the tables at 2 numbers.
- 12. Deletes "(mean  $\pm$  SD, n = 3)" in the table title
- 13. Some references in the text aren't well used. E.g:

  by Ajay et al., Camatari et al. and Ritwiz et al. respectively [21-22, 51]. = by Ajay et al.

  [21], Camatari et al. [22] and Ritwiz et al. [51].

  Wu et al. (2006) [53], = Wu et al. [53],
- 14. Deletes the aim of the study in the conclusion section, it is sufficient in the abstract and the introduction.
- 15. At the stage of this work, the author can't make the following suggestion. "Our results suggest that in vivo antioxidants, especially polyphenolic compounds of plants, in this case *C. longa*, could inhibit or delay the clinical expressions related to sickle cell disease by trapping free radicals produced in an abusive way in sickle cell or by inhibiting enzymes or other biomolecules involved in the production of free radicals or by stimulating the synthesis of enzymes in the antioxidant defense system". The author should add the *in vivo* experience in the perspectives.
- 16. In general, there is a total disorder in the reference section.
- Some references (6, 8, 9, 12, ....) do not end because of the absence of dot "." at the end;
- Writes the journal titles in the same way. Some are in abbreviated form (10, 12, 13, 16, ...) and others not (9, 11, 14, ...);
- Authors names are not writing in the same way. E.g:

Nilanjana Deb, Purba Majumdar, Ajoy Kumar Ghosh;

Sawant R.S. and. Godghate A.G.

Created by: EA Checked by: ME Approved by: CEO Version: 1.6 (10-04-2018)

# SCIENCEDOMAIN international www.sciencedomain.org



# **SDI Review Form 1.6**

	Chang, C. H., Lin, H. Y., Chang, C. Y. and Liu, Y. C.
	Camatari FOS., Lopes KH., Valentim BI., Xavier JA., da Costa JG., Santana AEG and
	Goulart MOF. N.B: all the four forms are different.
	- In reference "n <sup>0</sup> 5", the article issue is replaced by the date.
Minor REVISION comments	
MINO REVISION COMMENTS	
Optional/General comments	
	I have reviewed the manuscript titled: " Antioxidant Potential and anti-sickling activity of
	different organs of Curcuma longa: effect of total polyphenol content and correlation of the
	antioxidant capacity on anti-sickling activity ". The experimental design and the methods
	and soldant superity of and storaing activity. The experimental design and the methods
	have some dark points and need serious major revision.

# PART 2:

	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)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

## **Reviewer Details:**

Name:	Tchoffo Herve
Department, University & Country	University of Dschang, Cameroon

Created by: EA Checked by: ME Approved by: CEO Version: 1.6 (10-04-2018)