



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	2014_IJBcRR_13433
Title of the Manuscript:	Contraceptive Effect of Ethanol Extract of <i>Dioscorea villosa</i> Tuber on Reproductive Hormones of Female Wistar Rats
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', 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>)



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)
Compulsory REVISION comments	Change to	
Line 5: The contraceptive effect of oral administration of ethanolic extract.	The effect of oral administration of ethanolic extract	Since the extract altered the levels/concentrations of reproductive hormones in female rat, this will definitely have adverse effect on maturation and ovulation of follicles, which 'may' impair implantation and pregnancy in female rats. Therefore, for these reasons of ours, the authors suggest that they would like the 'contraceptive' to remain.



SDI Review Form 1.6

Line 10: Preliminary phytochemical screening of ethanolic extract of <i>Dioscorea villosa</i> tuber revealed the presence of alkaloids, saponins, flavonoids and cardiac glycosides.	Remove the sentence	The activity of the extract may be attributed to or have been associated with some bioactive agents which are the phytoconstituents present in the extract. It is these bioactive agents in the extracts that are actually carrying out the effect. The authors therefore crave your indulgence to let the preliminary phytochemical screening result to remain in the study because of its immense relevance.
Line 22 : Consequently, the extract may impair fertility and conception in female rats.	Remove the sentence	This is noted and the sentence has been modified. The alterations in hormone concentration by the extract 'may' impair implantation and pregnancy in female rats.
Line 21: -----hormones by the extract are indications of adverse effect on the maturation and ovulation of follicles.	----- Hormones by the extract indicate the adverse effect on the maturation and ovulation of follicles.	It has been corrected as required.
Line 35: female sexual dysfunction	The problem of FSD has no association to the subject of the research; therefore I suggest deleting this part from line 35-57.	Female Sexual Dysfunction (FSD), as reported in the study, results from the alterations in female rats hormonal levels. These alterations "may" affect the maturation and ovulation of follicles, which 'may' impair implantation and pregnancy in female rats. Following these



SDI Review Form 1.6

		reasons, we will like you to permit us to let it remain in the study.
Line 72-82: the author just enumerated the titles of articles of previous studies.	The previous studies should be presented in different way.	Both the “authors” and “titles” of the articles of previous studies were enumerated, and not only the titles.
Line 83: there has not been any information in the open scientific literature that has addressed the contraceptive claim of the tuber	The study confirmed the alteration in the female sex hormones, but not precisely the contraceptive effect of the plant	The alteration in female sex hormones that was confirmed in the study “may” have adverse effect on the maturation and ovulation of follicles, which “might” have impair implantation and ability to take in. Therefore, it was the alterations we confirmed that made us attribute it to being a contraceptive, since it may prevent females from being pregnant.
Line 206: This diosgenin	Remove the word this	It has been removed.
Line 208: Luteinizing hormone (LH) is produced in the anterior pituitary called gonadotrophs.	Luteinizing hormone (LH) is secreted from cells in the anterior pituitary called gonadotrophs	It has been done as required.
Line 209: LH activates secretion	It activates	It has been corrected as you wanted it.
Line 222: annovulation and sequelae	<i>anovulation</i> and sequelae	It has been corrected as required.
Line 238-241: Administration of the ethanolic extract of <i>Dioscorea villosa</i> tuber at 400 mg/kg body weight which significantly increased the serum FSH in the rats compared to the control group might----- -	Rephrase the sentence, too much which	The sentence has been rephrased.



SDI Review Form 1.6

Line 242: might be a pointer to the fact that	Might point to the fact that	It has been corrected as required.
In conclusion, line 250: the extract may be employed as a potent female contraceptive.	The extract has the potential to be employed as a potent female contraceptive, so further evaluation for its female contraceptive effect should be considered.	It has been corrected as required.



SDI Review Form 1.6

Minor REVISION comments Line 61: It is species of tuberous	It is a species of tuberous	"A" has been added.
Line 62: and fences, the thin, woolly, reddish	And fences. The thin, woolly, reddish	"Full-stop" has been placed.
Line 108 : under a shade	under shade	The "a" has been removed.
Optional/General comments Title could be modified to point only to the effect of on female reproductive hormones and not on contraception	Effect of of <i>Dioscorea villosa</i> Tuber Ethanol Extract on Reproductive Hormones of Female Wistar Rats	Since the extract caused alteration in the concentration of female rat reproductive hormones. This alteration which may impair maturation and ovulation of follicles makes the extract to have a potential to be employed as a female contraceptive as implantation/pregnancy/conception will not take place at all.
I suggest summarizing the part dealing with plant description (line 61-70) to be more precise and shorter.		The area on plant description has been addressed.
Line 113: give the required brownish-black residue	give a brownish-black residue	It has been rephrased as required.