



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_30912
Title of the Manuscript:	Coffee and Caffeine Consumption in Reproductive Functions of Adult Wistar Rats
Type of the 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)
<u>Compulsory</u> REVISION comments	Comments on the paper : Coffe and caffeine consumption in reproductive functions of adult wistar rats. General comments Your work is of high interest; the manipulations have been correctly made, with large samples. The results are statistically analyzed. However, I have serious remarks to emit about the presentation of your work. 1 the entire paper is really too long, and the English (vocabulary and grammar) must be revised Here below, I give you some proposed corrections. 2 the order of the alineas and the sentences must be revised. Here below, I give you some precision concerning this point. 3 There is a conflict. Caffeine has antioxidative properties. Such properties allow normally reducing infertility. Consequently, caffeine should	Effectuated as suggested. Whole abstract and introduction was double-checked.



SDI Review Form 1.6

	not impact fertility. On the contrary, you show in your work that this substance has an adverse effect on fertility. You must discuss this conflict and try to find a solution. Here below, I propose a solution. 4 The readers have no numerical results at their disposal. Is it not possible to give the mean of your assessments in one, or two or three tables? In details <u>Abstract:</u> begin by ‘coffee is a popular beverage’ then: ‘Its effect on health ..; and after: ‘puzzle and research interest on it have expanded with;properties. Stop after ‘investigated’. Delete the material and methods details and write directly: ‘lines 14 → 25. Also, shorten the text, re-write line 21, and correct ‘pub’. <u>Key words:</u> you cannot use ‘coffee, caffeine, reproduction’ since they are already in the title; find three other words. <u>Introduction:</u> shorten it a little, and revise the vocabulary (line 34: host; line 43: juice? Which one?; ...). Line 57: after ‘drug’, go on with line 58. Stopt at line 62: hormones, and begin a new line	
--	---	--



SDI Review Form 1.6

	with ‘This study ... and be then more precise. <u>Aim:</u> line 73: pregnancy; line 75: weeks <u>Research design:</u> line 82: correct ‘commencement’ Everywhere: write the numbers either 1, 2 ... or one, two ...; lines90-94: !!! add commas. <u>Study area:</u> simply delete <u>Procedure:</u> use the same order for 371, 372 and 373, 374 371: pull, write only one sentence; 372: idem 373: why have you not prepared directly the adequate dose? 375: really too long! 376: the % is final – initial / initial 377: readers cannot understand: diluted 1 in 20; area of 2 sq mm; multiplying by 1000 000. 379: once more, too long! And there are mistakes! An example: at room temperature: 18-250C; impossible!!! You want probably write: 18-25°C <u>Results:</u> <u>Statistics:</u> ‘less than 0.05: OK so check, sometimes you have written: $P>0.05$! There is no axis legend on figures 43, 44, 46, 47, It should be nice to have numerical results (the means for instance, in tables) Important: the sentence written under the figure does not correspond to the figure:	
--	---	--



SDI Review Form 1.6

	For figure 41: are you sure that -8.33% is correct? This is not visible on the figure For figure 42: are you sure the control is '0.80%' Figure 44: correct the '0' written after 'control' Legend of figure 46: you repeat twice the legend! One is enough Legend of figure 47: shorten! <u>Discussion</u> shorten the two first alineas <u>Effect of coffee on weight</u>: please, re-write this passage; it is very important! Remark: a diuretic affect has an adverse effect on the males' ability in reproductive behavior <u>Effect on reproductive hormones</u>: interesting, but really too long, and not well written, essentially lines 376-383. <u>Recommendations</u>: bad sub title; find another more appropriate one! Remark: I have studied the effects of caffeine on ants as models. I have found that this substance increases the linear speed, the conditioning ability (the learning), the memory, so traits that are under the orthosympathetic nervous system, and not the other traits; that this substance decreases the food	
--	--	--



SDI Review Form 1.6

	consumption. Consequently, under caffeine consumption, the parasympathetic nervous system is decreased. And that latter system allows the functioning of (among others) the reproductive functions (the glands, the behavior, the hormones). This is probably the reason why there is a conflict between the antioxidant properties of caffeine (which should ameliorate the reproduction) and your result (it decreases the reproduction). Also, I recall that caffeine is diuretic! (I had to give water to my ants), and this impact the reproductive ability of the mammal males. Theophylline is a little less active than caffeine, theobromine is still less active. The latter substance, reducing less the parasympathetic system, and having antioxidant properties, enhances the reproduction (chocolate is aphrodisiac). You can find the molecule of these three substances on internet. They are similar, and are often present all together in a product (coffee, chocolate ...). The effects of caffeine lasted 11-16 hours after the end of its consumption. So, for humans, they can drink coffee during the day (though not too late) and stop doing so during the afternoon. Doing so, they will have the antioxidant properties and not the adverse impact n their reproductive ability.	
--	---	--



SDI Review Form 1.6

	You can find my work on caffeine (theophylline, cocaine and atropine) on internet. May I suggest you to re-write your paper, shorten it, correct the English, re-order the alineas and sentences, ameliorate the figures and their legends, add tables, add my new proposed ideas ... The experiments are correctly made, the subject is very interesting, but the paper is really very difficult to read and understand. It must be completly re-written. The presentation of the results, the order of the sentences, the vocabulary, the grammar, the ideas many things must be corrected.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		