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Journal Name:	Advances in Research
Manuscript Number:	2014_AIR_12639
Title of the Manuscript:	Environmental parameters and <i>Biomphalaria</i> snail distribution along River Kochi, West Nile region, Uganda
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:

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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	 Abstract: The abstract should be rewritten in a more concise way. Is the sampled locality a transmission focus? Correlation coefficients should be placed immediately after the factor and state simply the relation: It would be better to write: <i>The abundances of</i> Biomphalaria <i>showed a positive relation with pH (r=0.614) but negative with water velocity (r=-0.749)</i>. The fact that the study was part of a Master project is not relevant to be placed in the abstract. Introduction: It is not clear why authors, having identified two species of <i>Biomphalaria</i>, treat both as just one species: Have both species exactly the same ecology and more important the exact same role as a transmitting host of schistosomiasis? Material and Methods: It is not clear why the study area was <i>generally</i> divided into three altitude zones? Was not these the zones used throughout the whole study? The map (fig. 1) lacks quality and it is not understandable. I recommend it to be remade using a higher resolution. Line 84: The authors have misspelled the genus <i>Lymnaea</i> (see also throughout the document). Besides that, authors should review updated literature in order to check if the species observed are actually <i>Lymnaea</i> or the individuals belongs to species of the genus <i>Galba</i> and/or <i>Radix</i> which were formerly placed under the genus <i>Lymnaea</i> (see Correa et al. 2010; 2011). Line 85: Some <i>Bulinus</i> species are also hosts of <i>Schistosoma haematobium</i> and the authors may want to mention why this species was not considered in their study in the same way as they did for <i>Biomphalaria</i>. Line 88: Were water samples collected always at the same time of the day? It is known that daytime actually alters the values of some factors such as pH, temperature, etc. Authors should then specify. 	

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- The authors did not explain if they considered the nature of the variables correlated	
(normal distribution, variance homogeneity) which is necessary to conduct parametric	
statistical analysis like the Pearson correlation.	
Results:	
- One would wander why if sampling was performed during 30 minutes the snails	
abundances would not be given as ind/30' instead of the mean number. In this sense, it is	
recommended to graph the relative abundances monthly in order to better observe a	
patter or tendency in each sampled site.	
- Line 107: The statement: "no Biomphalaria species of snails" is not understandable.	
- Fig. 2 should be reconstructed: it lacks resolution and it is unnecessarily big. Authors	
may consider to place the legend box inside the graph and gain some space for	
publishing. There is no difference between <i>Bulinus</i> and <i>Lymnaea</i> in the legend.	
- In the results one would expect the authors to give which species of Bulinus and Pila	
occurred in the area.	
- Table 1: There is no need to write "0.00", just "0".	
- Line 118-119: The authors may want to state when the correlation was positive or	
negative and give the r coefficient in parenthesis with the probability value (P).	
- Table 2: this table is completely unnecessary if the authors simply state in the text the	
results of correlations (it just repeats information). This table is also embedded like a	
figure and not a Word table.	
- Fig. 3: this figure can be deleted and simply state that a strong negative correlation (r = -	
0.899, P=??) was observed between pH and water velocity. In any case, this seems like	
an obvious statement after considering the correlations found between species	
abundance and pH and water velocity respectively. Authors may want to ask themselves	
if Biomphalaria individuals are actually affected by either pH or water velocity, or if only	
one factor is actually affecting the population but the correlation between both factors is	
giving a <i>ghost</i> effect to the population.	
- Fig. 4 & 5: The authors may want to consider placing both graphs inside only one figure	
(one adjacent to the other) and increase the resolution.	
Discussion:	
- The lines 157-160 of the first paragraph of the Discussion are merely results.	
- Line 161: The authors state that the presence of Lymnaea may pose a risk of Fasciola	
hepatica infection. However, since they do not specify the species of Lymnaea, they	
should not specify the species of the parasite since F. gigantica may infect Radix	
natalensis.	
 Discussion is poor regarding scientific based relations that would explain the risks of 	

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Results: - This section is named "Results and Discussion", but then there is another section named "Discussion" only ?? - Some tables have different font styles that must be corrected. The manuscript deals with the ecology of <i>Biomphalaria</i> species in the West Nile region. The authors relate the abundances of <i>Biomphalaria</i> with some ecological factors that affect their populations. The ecology of snails that serve as hosts for parasites are always interesting to review in order to better understand the transmission and as a complement	
 Results: This section is named "Results and Discussion", but then there is another section named "Discussion" only ?? Some tables have different font styles that must be corrected. The manuscript deals with the ecology of <i>Biomphalaria</i> species in the West Nile region. 	
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Results:	
•	
- Line by. Authors may want to check if it must say border instead of boarder.	
- Line 17: There is no need to repeat in humans, it was stated before.	
name.	
- Line 16: it should say: "for the human blood fluke" since authors are stating the species	
Introduction:	
Conclusions:	
Schistosoma mansoni transmission?	
	Conclusions: - Besides what the authors want to expose in the conclusions regarding the risks the intermediary hosts of <i>Schistosoma</i> spp. pose in the Kochi River despite national efforts to control the disease, it would be necessary to conclude how exactly the results of this particular study (relations of <i>Biomphalaria</i> with ecological factors) contribute to vector managing and control. Some words seem to be placed together probably due to compatibility problems with Words processors but need to be taken care of. The English must be carefully revised. I suggest that authors write in third person instead of first. Introduction: - Line 16: it should say: "for the human blood fluke" since authors are stating the species mame.

Note: Anonymous Reviewer