



SDI Review Form 1.6

PART 1:

Journal Name:	<u>International Journal of TROPICAL DISEASE & Health</u>
Manuscript Number:	2013 IJTDH 4391
Title of the Manuscript:	Importance of N-terminal glycine-arginine rich (GAR) domain in Giardia lamblia fibrillarin in formation of snoRNA-fibrillarin complex
Type of the Article	Research paper

General guideline for Peer Review process is available in this link:
(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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	1. This work includes two parts: identifying (<i>in silico</i>) the GAR domain from <i>Giardia</i> fibrillarin and proving its essentiality during the binding of the protein with snoRNA. But the first part is described too simply. The sequence of the identified GAR should be given out and compared (aligned) with those of typical GAR to find the similarities and differences or specific traits. 2. All the lines of evidence from experiments are exactly to prove GAR domain from <i>Giardia</i> fibrillarin is essential for the binding with snoRNA of this protein NOT for the formation of snoRNA-fibrillarin complex directly. 3. The final sentence of "4. DISCUSSION" is excellent. The two possibilities have been considered. Therefore, the GAR should be essential for binding not have been proved to be involved in formation of the complex directly. Thus, the title might be changed into "Identification of the N-terminal glycine-arginine rich (GAR) domain in <i>Giardia lamblia</i> fibrillarin and evidence for its essentiality for the binding with snoRNA of this protein". And the last part of the sentence in Conclusion of ABSTRACT is also should changed into "... and is essential for the binding with snoRNA of this protein"	1. The GAR domain and the amino acid sequence of giardial fibrillarin has been analysed with those of Human, <i>Mus musculus</i> and <i>Arabidopsis thaliana</i> by ClustalW using SeaView Graphical representation version 4. 2. We agree with the reviewer's comment and changes has been made accordingly. 3. We agree with the reviewer's comment and changes has been made accordingly Thus, the title has been changed to "Identification of the N-terminal glycine-arginine rich (GAR) domain in <i>Giardia lamblia</i> fibrillarin and evidence for its essentiality for the binding with snoRNA of this protein"
Minor REVISION comments	1. In "Methodology" of "ABSTRACT"(first line) and line 71 , the word fibrillarin should be fibrillarins;	1. "Fibrillarin" is changed to "fibrillarins".



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	2. In “Methodology” of “ABSTRACT”(third line) and line 73, “using different softwares” should be “using two different softwares” 3. Line 78, “The fibrillarin gene” should be “The <i>Giardia</i> fibrillarin gene”	2. This line has been replaced by “The analysis was performed by ClustalW using SeaView Graphical representation version 4.” 3. “The fibrillarin gene” has been replaced by “ the <i>Giardia</i> fibrillarin gene”
<u>Optional/General</u> comments	1. In 2.4.1, where did the so called “different snoRNAs of <i>Giardia</i>” used for experiments come from? It is better to explain that. Why a virus RNA rather than a <i>Giardia</i> RNA was chose to carry out the experiment?	1. The line “different snoRNAs of <i>Giardia</i>” is replaced by “RNA J and RNA H” which are reported to bind with giardial fibrillarin protein, and the virus RNA was also used previously as a negative control RNA for binding experiments of fibrillarin protein with snoRNAs. (Ghosh et al. Protein Expression and Purification. 2001, 21: 40-48)