



SDI Review Form 1.6

Journal Name:	British Microbiology Research Journal
Manuscript Number:	2013_BMRJ_6433
Title of the Manuscript:	Prevalence and Molecular Diversity of <i>Legionella pneumophila</i> in Domestic Hot Water Systems of Private Houses
Type of the Article	Research Paper

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>)



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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)
<u>Compulsory</u> REVISION comments	My comments to the authors: The objective of this work is to determine the presence and diversity of <i>Legionella spp.</i> in domestic water systems in the city of Aqaba. It uses an adequate sampling size and a well established analysis methodology with slight modifications. What is more, the results and conclusions can be very useful for the region. Based on the above mentioned reasons, I would like to recommend this paper to be published in British Microbiology Research Journal after major revision. -I think the material and methods are well explained, but I would like to know if the slight modifications introduced, like the amount of water sampled (250mL instead of 2L) or the filter pore size (0.45µm instead of 0.20µm) could explain the low number of positives found	



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	(8.5% instead 30.5% [14])? -In my opinion, the amount of positives obtained are not enough to conclude that the genotype heterogeneity in serogroup 1 is higher than in the other serogroups. Anyway, in the sentence "We can also suppose that this high tolerance of <i>L. pneumophila</i> serogroup 1 isolates to elevated temperature within the water heating system is in relation with the genetic diveristy among the isolates and may result in enhancing their capacity towards colonizing these water systems." (lines 260-263) it seems that the authors suggest that the diversity is the reason of the colonization, and in my point of view it is the opposite. A better adaptation to a niche increases the diversity of that strain in that place.	
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<u>Minor</u> REVISION comments	-In table 1. It is possible to indicate the data of each sample? Are there replicates and/or areas with samples taken in different months? Seeing the evolution of the distribution of each genotype/serogroup in the different areas could be interesting. -In the last paragraph (lines 267-271) I would recommend you not to use the word “eradication” in a global sense, because <i>Legionella pneumophila</i> in the natural water systems rarely causes disease, it is when the artificial conditions of human water systems, and a high growth of these strains can affect to susceptible people. So, I recommend to use “control Legionella proliferation in human water systems” or something similar.	
<u>Optional/General</u> comments	I am not a native English speaker but in spite of finding the text, in general, clear and well written, I strongly recommend that many corrections should be done by a native English speaker. For example: -In the abstract it is written “were Legionella species other than pneumophila”. It must say “were <i>Legionella</i> species other than <i>L. pneumophila</i>”. -“30 C and 35 C” (33) -Legionellae spp. (143) -“Legionella pneumophila serogroup 1 and five were Legionella pneumophila serogroup 2-	



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	14." (151-152). Genus is only written in full when it is used the first time. - "10 out of the17" (157) - <i>L. pneumophila</i> is the correct name of the specie and not "<i>L. pneumophila</i>" (lines 198, 257, 259 and others) -diveristy (262).	
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Note: Anonymous Reviewer