



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_32056
Title of the Manuscript:	Pineapple juice ameliorates the high fat diet-induced alterations in cardiac gene expression pattern in male 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	1. the treatment was for 4 weeks. The authors showed expression of genes only after the treatment. Please shed some light on gene expression changes during the treatment period. 2. The authors showed body weight and other biochemical parameter only after the treatment. Please shed some light on changes during the treatment period. 3. in discussion the authors mainly focused on the effect of juice treatment of expression of cardiac genes. Please include some discussion on body weight. 4. the effect of the juice treatment is striking, is there any other report of such juice treatment with similar reports? 5. figure 6, the gel picture and mRNA expression data contradicts, how the juice treatment expression is lower than the control. 6. figure 7, only gel picture shown, no mRNA expression figure present? 7. in figure captions, "representative blot" was written. Did the authors perform any blotting? No indications found in the method section.	1. The study addressed the effect of pineapple juice treatment on obesity-induced cardiac dysfunction at molecular level, not to study the effect of time course of juice treatment. Thus the gene expressions were tested after reasonable period based on the previous studied. 2. As mentioned above the aim the study was to test whether there is an effect of juice treatment on the gene expressions or not. Thus the time course effect of treatment was out of scope of the designed study. The time course effect can be investigated in the future study. 3. The authors mainly focused on the effect of juice treatment of expression of cardiac genes because pineapple juice was reported to have body weight lowering effect in various previous studies as indicated in the following list of references (Hossain Md. Farid, Akhtar Shaheen, Anwar Mustafa. Nutritional Value and Medicinal Benefits of PineappleInt. J. Food Sci. Nutr. 2015; 4(1): 84-88.; Garcia-Alvarez A, Mila-Villaruel R, Ribas-Barba L Egan B, et al. Usage of Plant Food Supplements (PFS) for weight control in six



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	8. figure 5B. shows serum level of NO, but it was not indicated in the method section.	European countries: results from the PlantLIBRA PFS Consumer Survey 2011-2012. BMC Complement Altern Med. 2016; 16:254. doi: 10.1186/s12906-016-1227-5.; de Villar NG, Loria V, Monereo S, Grupo de Obesidad de la SEEN. Alternative drugs for obesity treatment: myth and reality 2003. Med Clin (Barc); 121(13):500-10.; Dave S, Kaur NJ, Nanduri R, Dkhar HK, Kumar A, Gupta P. Inhibition of adipogenesis and induction of apoptosis and lipolysis by stem bromelain in 3T3-L1 adipocytes. PLoS One. 2012; 7(1):e30831). Thus the current study focused mainly on its cardio-protective effect of pineapple. 4. See these references [Debnath, P.; Dey. P.; Chanda, A. and a Bhakta, T. 2012. A Survey on Pineapple and its medicinal value. Scholars Academic J. Pharm.1 (1); Juhasz B, Thirunavukkarasu M, Pant R, et al. 2008. Bromelain induces cardioprotection against ischemia-reperfusion injury through Akt/FOXO pathway in rat myocardium. Am J Physiol Heart Circ Physiol 4(3):H1365-70; Mozaffarian, D. 2016. Dietary and policy priorities for cardiovascular disease, diabetes, and obesity: A comprehensive review. Circulation, 133, 187–225; Srikanth and Zhong Chen. Plant Protease Inhibitors in Therapeutics-Focus on Cancer Therapy. Front Pharmacol. 2016; 7: 470]. 5. This is because only one representative
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		gel photo is shown. 6. In figure 7, only gel picture is shown, no densitometric analysis of the mRNA expression is shown, because the mRNA expression of ACEI could not detected in the control group. As the results wre shown relative to control, I could not divide the analysis results of the other group with that of the control. 7. in figure captions, “representative blot”, It means representative gel photo. 8. Assay for serum NO was aded to the material and methods section in the revised version of the manuscript.
<u>Minor</u> REVISION comments	1. There are some spelling and font mistakes. Please correct.	The mistakes were corrected.
<u>Optional/General</u> comments		