



SDI Review Form 1.6

PART 1:

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	MS: 2012 IJBcRR 2833
Title of the Manuscript:	Hormonal Sensitivity of Adenylyl Cyclase in the Myocardium, Brain and Testes of 18-month-old Non-Diabetic and Diabetic Rats

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 9 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	In the conclusion of the Abstract, the authors need to be a bit more specific. Using words like "change" does not really convey much. The authors need to specify up or down	In the Conclusion of the Abstract we replaced the phrase "undergoes significant changes" to "significantly weakened", and then the word "changes" to "abnormalities".
Minor REVISION comments	(1)Page 2, Materials and Methods lines 74-81, this information should be put in a table (2) page 3, line 129, change cardiac to ventricle	(1) We have presented the table (Table 1) with the body weight, plasma glucose and insulin levels in three-, eight-, and 18-months-old diabetic and control rats and modify the text (lines 74-81). Additionally, we have presented the figure (Fig. 1) with glucose tolerance test results. (2) We have replaced the word "cardiac" to "ventricle" (page 3, line 129).
Optional/General comments	This is an interesting study that investigates the effects of long term diabetes on the AC system and attempt to discern changes from that triggered by aging. The strength of the study is the use of 18 months animals. A weakness (minor) is that other studies have demonstrated defects in the AC in diabetes. The techniques used for the study are well established. Three organs were investigated, brain heart and testes using a battery of pharmacological agents. There are some grammar issues, for example in the abstract, purpose line	Indeed, there are our investigations and the works of other authors devoted to the functional activity of AC system in diabetes. However, the studies of hormone-sensitive AC system in old rats with long-term experimental diabetes and its comparison with the control old rats are not currently available. We have changed a number of phrases that include the word "neonatal" in an inappropriate combination (in the Abstract and in the main



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	2" instead of saying with "neonatal model of T2D" it might be more appropriate to say using a rat model of T2D. Please check the rest of the text for similar oversights	text). For example, the phrase "with neonatal model of T2DM" was replaced by "with experimental T2DM" (Abstract: line 2, Purpose), and the phrase "in neonatal T2DM" replaced by "in a rat model of T2DM" (Abstract: the last line, Results).
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