

[Review Form 3](#)

Book Name:	Achievements and Challenges of Medicine and Medical Science
Manuscript Number:	Ms_BPR_4161
Title of the Manuscript:	Effect of aging and obesity on parameters of insulin, T4/T3 ratios, metabolic rates, sirtuins and longevity in congenic LA/Ntull//cp (Corpulent) rats
Type of the Article	BOOK CHAPTER

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The manuscript titled "Effect of aging and obesity on parameters of insulin, T4/T3 ratios, metabolic rates, sirtuins and longevity in congenic LA/Ntull//cp (Corpulent) rats" focus on the aging, obesity and thyroidal function in congenic rats. Changes in thyroidal activity occur in aging, with variable responses in other parameters of thyroidal function and peripheral physiological actions. The progressive decreases in plasma insulin and deiodination-mediated activation of T4 may represent a longevity attribute via decreases in resting metabolic rates, and in an associated attenuation of free radical generation and other metabolic factors of aging and longevity in this strain. Genetic factors may also be at play in longevity in this strain, since the background LA/N strain has been noted for its healthful longevity.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article is suitable.	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract of the article is comprehensive. The reader can easily understand the summary of the whole article by reading the abstract. Although the terms like adiposity, thyroid hormones, sirtuins and corpulent rat are used as the keywords, but the terms are missing in the body of the abstract. To make the abstract more interesting for the readers please add those terms in the body of the abstract accordingly.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is partially scientifically robust and technically sound as some of the important sections are missing in the manuscript. I have highlighted some points regarding the sections that needs to be added in the file. Making those small but very important corrections will make the manuscript fully scientifically robust and technically sound.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The redundant old references shall be omitted and the latest citation/information upto year 2024 can be added for making the manuscript more up-to-date for the readers. Accordingly, I have highlighted this issue in the file.	
Is the language/English quality of the article suitable for scholarly communications?	The English language quality of the article is overall suitable for scholarly communications.	
Optional/General comments	The manuscript described the information in it very specifically, without deviating from the final outcome.	

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PART 2:

	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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