

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Diabetes

**Manuscript NO:** 63333

**Title:** The role and function of granin proteins in diabetes mellitus

**Reviewer's code:** 05426937

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Hungary

**Manuscript submission date:** 2021-01-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-01-27 14:33

**Reviewer performed review:** 2021-01-31 14:56

**Review time:** 4 Days

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## **SPECIFIC COMMENTS TO AUTHORS**

The contribution of granins to carbohydrate metabolism and diabetes mellitus is a recent research area. The authors have also conducted a more in-depth study in this regard. The manuscript provides a comprehensive, systematic and in-depth summary of that, and summarizes as follow: CgA is associated with glucose homeostasis and the progression of type 1 diabetes. WE-14, CgA10-19, and CgA43-52 are peptide derivatives of CgA, and act as CD4<sup>+</sup> or CD8<sup>+</sup> autoantigens in type 1 diabetes, whereas pancreastatin and catestatin have regulatory effects in the carbohydrate metabolism, furthermore, pancreastatin is related to gestational and type 2 diabetes. CgB has a crucial role in physiological insulin secretion. Secretogranins II and III have an angiogenic activity in diabetic retinopathy, and are one of the novel targets in recent diabetic retinopathy studies. Ongoing studies are beginning to investigate the potential use of granin derivatives as drugs to treat diabetes based on the divergent relationships between granins and different diabetes types. The article is clear, organized, logical, and of high quality. It focuses on current research hotspots and frontiers, which is very important for subsequent research. The article also puts forward the current problems and future research directions, that is studies investigating the relationship of granins to T2DM and other diabetes forms, and the potential application of PSTi8, CST, and antibodies against SgIII as future medications further increases the importance of granins in diabetes. Therefore, I recommend publishing this manuscript.

## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Diabetes

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**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Doctor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** Hungary

**Manuscript submission date:** 2021-01-27

**Reviewer chosen by:** Jia-Ru Fan

**Reviewer accepted review:** 2021-03-09 01:36

**Reviewer performed review:** 2021-03-13 01:08

**Review time:** 3 Days and 23 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## SPECIFIC COMMENTS TO AUTHORS

No comments.