

## ESPS PEER REVIEW REPORT

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

**ESPS manuscript NO:** 13650

**Title:** Adiponectin: The probe of the molecular paradigm associating diabetes and obesity

**Reviewer code:** 00506294

**Science editor:** Yue-Li Tian

**Date sent for review:** 2014-08-29 08:08

**Date reviewed:** 2014-09-12 18:24

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

## COMMENTS TO AUTHORS

This complete review about: "Adiponectin, Type Diabetes, Obesity, Insulin resistance, Dyslipidemia", explain as adiponectin secretion, in contrast to secretion of other adipokines, is paradoxically decreased in obesity and the authors studied the physiology of adipocyte; this decrease may be attributable to inhibition of adiponectin gene transcription and the authors analyze the genetic and the epigenetic control of synthesis of adiponectin. There are several mechanisms through which adiponectin may decrease the risk of type 2 diabetes mellitus, including suppression of hepatic gluconeogenesis, stimulation of fatty acid oxidation in the liver, stimulation of fatty acid oxidation and glucose uptake in skeletal muscle, and stimulation of insulin secretion. The importance of adiponectin metabolism in insulin resistance is relevant and also the importance of adiponectin metabolism for the development of diabetes mellitus. The authors also identify a novel target for prospective therapeutic research aiming successful management of diabetes mellitus. Also adipocyte has been demonstrated to play a crucial role in obesity and type 2 diabetes mellitus. It is increasing its importance as a potential biomarker in above mentioned diseased state as, it increases insulin sensitivity and fatty acid oxidation, correlates significantly with oxidative stress and acts as an important inflammatory biomarker and regulates many genes in various metabolic pathways. They propose adiponectin as a novel target for the therapeutic approach to treat diabetes mellitus in the future. Altered expression of adiponectin or related pathway genes could be an effective tool for



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researchers to mediate its function which in turn may minimize the prevalence of obesity, type 2 diabetes or other metabolic disorders. The review is complete and very well done with many figures and a complete list of references.

## ESPS PEER REVIEW REPORT

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

**ESPS manuscript NO:** 13650

**Title:** Adiponectin: The probe of the molecular paradigm associating diabetes and obesity

**Reviewer code:** 00036318

**Science editor:** Yue-Li Tian

**Date sent for review:** 2014-08-29 08:08

**Date reviewed:** 2014-09-19 16:13

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

## COMMENTS TO AUTHORS

This is a comprehensive Review of the role of adiponectin in the pathogenesis of type 2 diabetes mellitus. Some minor comments will further improve the text: 1) Many sentences do not have references throughout the text. Please add the appropriate references. 2) Please clearly state the aim of the Review at the end of the second paragraph of the text. 3) Section 2 is not very relevant and should be shortened substantially.

## ESPS PEER REVIEW REPORT

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

**ESPS manuscript NO:** 13650

**Title:** Adiponectin: The probe of the molecular paradigm associating diabetes and obesity

**Reviewer code:** 00506263

**Science editor:** Yue-Li Tian

**Date sent for review:** 2014-08-29 08:08

**Date reviewed:** 2014-09-22 16:16

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

## COMMENTS TO AUTHORS

Comments for manuscript, World Journal of Diabetes MS Number: Comments to the Author  
 The manuscript “ Adiponectin: The probe of the molecular paradigm associating diabetes and obesity ” by Kakali Ghoshal et al. Specific comments Human adiponectin protein must have 244 amino acids, but not 247 amino acids as authors described. On the other hand, mice adiponectin is composed of 247 amino acids, I suggest that author must confuse human adiponectin and mice one. Therefore, author should describe about both adiponectins, and the difference of the characters. Minor comments Page No are missing. Page 20, 2nd Paragraph; “Thus adiponectin exerts several...” Is bold style a simple mistake?