

**ESPS Peer-review Report****Name of Journal:** World Journal of Translational Medicine**ESPS Manuscript NO:** 11140**Title:** "Arsenic induced abnormalities in glucose metabolism: biochemical basis and potential therapeutic & nutritional interventions"**Reviewer code:** 00503536**Science editor:** Fang-Fang Ji**Date sent for review:** 2014-05-07 18:53**Date reviewed:** 2014-05-11 17:33

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"/> Existed	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C (Good)	<input type="checkbox"/> Grade C: a great deal of	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D (Fair)	language polishing	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

**COMMENTS TO AUTHORS**

The review written by Kulshrestha et al. summarizes the molecular and cellular effect of arsenic on the glucose metabolism. They comprehensively summarized the current knowledge on the mechanisms of diabetes mellitus induced by arsenic. The review is well written and gives important information on the current understanding of toxic mechanisms of arsenic.

# ESPS Peer-review Report

**Name of Journal:** World Journal of Translational Medicine

**ESPS Manuscript NO:** 11140

**Title:** "Arsenic induced abnormalities in glucose metabolism: biochemical basis and potential therapeutic & nutritional interventions"

**Reviewer code:** 00064852

**Science editor:** Fang-Fang Ji

**Date sent for review:** 2014-05-07 18:53

**Date reviewed:** 2014-05-20 18:13

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 type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input checked="" 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)		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E (Poor)	<input type="checkbox"/> Grade D: rejected	<input type="checkbox"/> Existed	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

## COMMENTS TO AUTHORS

In this review the Authors extensively describe the biochemical events related to arsenic exposure and how these events may affect glucose metabolism and type 2 diabetes mellitus. The review also focuses on various potential therapeutic and nutritional interventions aimed at attenuating arsenic toxicity. However, the paper is not well written, is badly organized and has many punctuation, typographical and grammatical errors. Also, but this is only the reviewer's opinion, there are too many biochemical details that make the paper not easy to read with a good flow and difficult to review fairly. Reorganization and rewriting of the paper is recommended to enhance reader interest. Apart from this, I have one recommendation that need consideration: It is known that arsenic affects the expression of HMGA1 (Kawata et al, Environ Sci Technol, 2007), a nuclear protein that has been previously implicated in insulin signaling and glucose homeostasis (Foti et al, MCB, 2003; Chiefari et al, SciRep 2012; Chiefari et al, BMC Biol. 2009). Authors should refer to these aspects in the work.

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**Date reviewed:** 2014-05-20 18:22

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 type="checkbox"/> Grade B: minor language polishing	<input type="checkbox"/> Existed	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C (Good)	<input checked="" type="checkbox"/> Grade C: a great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
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