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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes
Manuscript NO: 33256
Title: Expression of matrix metalloproteinase-11 is increased under conditions of insulin resistance
Reviewer's code: 00562236
Reviewer's country: Italy
Science editor: Fang-Fang Ji
Date sent for review: 2017-02-12
Date reviewed: 2017-02-25

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[ ] Grade A: Priority publishing	Google Search:	[ ] Accept
[ ] Grade B: Very good	[Y] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[Y] Minor revision
[ ] Grade E: Poor		[Y] No	[ ] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

The paper by Arcidiacono and coauthors is interesting. It reports data on MMP-11 expression in murine cell culture and in an animal model of insulin resistance. They show that MMP-11 is upregulated under that condition, causing dysregulation of ECM, and contributing to the onset of obesity. The paper is straighforward, well written, and it adds novel information on the topic. I think it should be accepted for publication. However a major problem should be addressed: figure 3 seems wrong, indeed it shows that mice on a low-fat diet have insulin resistance. The authors should explain. Minor: some typing errors should be corrected (i.e., line 238 "expresion"…)

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PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes
Manuscript NO: 33256
Title: Expression of matrix metalloproteinase-11 is increased under conditions of insulin resistance
Reviewer's code: 00506276
Reviewer's country: Poland
Science editor: Fang-Fang Ji
Date sent for review: 2017-02-27
Date reviewed: 2017-03-02

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[ ] Grade A: Excellent	[Y] Grade A: Priority publishing	Google Search:	[ ] Accept
[ ] Grade B: Very good	[ ] Grade B: Minor language polishing	[ ] The same title	[ ] High priority for publication
[Y] Grade C: Good	[ ] Grade C: A great deal of language polishing	[ ] Duplicate publication	[ ] Rejection
[ ] Grade D: Fair	[ ] Grade D: Rejected	[ ] Plagiarism	[ ] Minor revision
[ ] Grade E: Poor		[Y] No	[Y] Major revision
		BPG Search:	
		[ ] The same title	
		[ ] Duplicate publication	
		[ ] Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

The aim of this study was to examine the effect of insulin resistance on the expression of MMP-11 in the adipose tissue. The study was performed in vitro using 3T3-L1 adipocytes as well as in vivo in mice made obese by high fat diet applied for 15 weeks. It is demonstrated that: 1) the expression of MMP-11 increases during preadipocite to adipocyte differentiation, 2) hypoxia and/or TN-alpha increase the expression of MMP-1 in 3T3-L1 cells, 3) the expression of MMP-11 in white adipose tissue is higher in obese than in lean mice which is accompanied by up-regulation of several markers of fibrosis. The results are of interest and the manuscript is quite well-written. Nevertheless, there are some issues which should be addressed. 1) It should be specified in the Abstract what was actually measured (MMP-11 mRNA or protein). 2) Which WAT depot was used for the measurement of MMP-11? 3) Why only mRNA but not MMP-11protein was measured in vivo? 4) The results are rather descriptive. Neither the mechanism nor the consequences of MMP-11 up-regulation have been elucidated in this study.