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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 15426

Title: New insights into the epigenetic control of satellite cells

Reviewer's code: 00573611

Reviewer's country: Afghanistan

Science editor: Yue-Li Tian

Date sent for review: 2014-11-26 16:52

Date reviewed: 2014-12-09 09:34

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

In this review, the authors focus on the epigenetic changes controlled by histone modifications – methylation or acetylation- and noncoding mRNAs that occur along satellite cell differentiation. This is an interesting review article. The reviewer has some minor comments. Comments: 1. The authors may consider adding a description for role of satellite cells in myogenesis or muscle regeneration at the beginning of article. 1. In Table 1, adding the explanation of symbol indication in footnote can help to read by readers. 2. A schematic diagram for epigenetic control of satellite cells during myogenesis may help to make the article livelier and to enhance the reader's attention and interest.



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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 15426

Title: New insights into the epigenetic control of satellite cells

Reviewer's code: 02446114

Reviewer's country: Afghanistan

Science editor: Yue-Li Tian

Date sent for review: 2014-11-26 16:52

Date reviewed: 2014-12-09 10:53

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	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"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

This manuscript is a good review paper and can attract the readers of epigenetic field.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 15426

Title: New insights into the epigenetic control of satellite cells

Reviewer's code: 02446119

Reviewer's country: Afghanistan

Science editor: Yue-Li Tian

Date sent for review: 2014-11-26 16:52

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CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" 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"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input checked="" type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Because so many excellent reviews and update studies as listed below were not included or mentioned in present review, I really doubt if the authors have read these papers before their decision on writing this review. All of the aspects of epigenetic regulation on gene expression were discussed as in other reviews, but there was little new knowledge, comment or prospect for readers.

1. Segales J, Perdiguero E, & Munoz-Canoves P (2014) Epigenetic control of adult skeletal muscle stem cell functions. The FEBS journal.
2. Giordani L & Puri PL (2013) Epigenetic control of skeletal muscle regeneration: Integrating genetic determinants and environmental changes. The FEBS journal 280(17):4014-4025.
3. Palacios D & Puri PL (2006) The epigenetic network regulating muscle development and regeneration. Journal of cellular physiology 207(1):1-11.
4. Perdiguero E, Sousa-Victor P, Ballestar E, & Munoz-Canoves P (2009) Epigenetic regulation of myogenesis. Epigenetics : official journal of the DNA Methylation Society 4(8):541-550.
5. Sdek P, et al. (2013) Epigenetic regulation of myogenic gene expression by heterochromatin protein 1 alpha. PloS one 8(3):e58319.
6. Dilworth FJ & Blais A (2011) Epigenetic regulation of satellite cell activation during muscle regeneration. Stem cell research & therapy 2(2):18.
7. Saccone V & Puri PL (2010) Epigenetic



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regulation of skeletal myogenesis. *Organogenesis* 6(1):48-53. 8. Delgado-Olguin P, et al. (2012) Epigenetic repression of cardiac progenitor gene expression by Ezh2 is required for postnatal cardiac homeostasis. *Nature genetics* 44(3):343-347. 9. Albini S, et al. (2013) Epigenetic reprogramming of human embryonic stem cells into skeletal muscle cells and generation of contractile myospheres. *Cell reports* 3(3):661-670.