

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12830

Title: Stem Cell Biology in Thyroid Cancer: Insights for Novel Therapies

Reviewer code: 02148395

Science editor: Yue-Li Tian

Date sent for review: 2014-08-11 17:14

Date reviewed: 2014-08-20 01:51

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" 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	<input type="checkbox"/> Existing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

The review "Stem Cell Biology in Thyroid Cancer: Insights for Novel Therapies" by Parisha Bhatia, MD; Koji Tsumagari, MD; Zakaria Y Abd Elmageed PhD and Emad Kandil, MD is concerned about the isolation and identification of thyroid cancer stem cells and outlines open questions to be answered in advance of therapeutic strategies. In the introduction the authors first outline the different types of thyroid cancer and proceed to introduce cancer stem cells. In the following the authors outline the organogenesis of the thyroid gland and then the potential origin of thyroid CSC, where they outline the distinct hypothesis still being discussed. In the following isolation and identification of CSC is summarized. They outline that various approaches for CSC enrichment in thyroid cancer and describe the panel of markers described in the literature so far. It follows the in vivo controls on tumorigenicity that have been published so far, including the authors approval to mix tumor cells with adipose-derived stromal stem cells. In the section on future perspectives. The authors focus on self renewal and EMT associated with CSC, which, however, needs further elaboration in thyroid cancer. The review is well written and wisely restricted to thyroid cancer. I have no suggestion and recommend publication in its present form. Minor points: 1. Page 8, last sentence §2 is confusing

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Name of journal: World Journal of Stem Cells

ESPS manuscript NO: 12830

Title: Stem Cell Biology in Thyroid Cancer: Insights for Novel Therapies

Reviewer code: 00506358

Science editor: Yue-Li Tian

Date sent for review: 2014-08-11 17:14

Date reviewed: 2014-08-27 23:17

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 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	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No records	<input type="checkbox"/> Major revision

COMMENTS TO AUTHORS

Bhatia P, et al: Stem Cell Biology in Thyroid Cancer: Insights for Novel Therapies EVALUATION: This review is a nice update of some of the recent exciting research advances achieved in the field of thyroid cancer, and cancer stem cells with perspectives. The review is concise. The content is well organized and well written, and can be deemed as a good supplement/continuation of the reviews published earlier. The points and perspectives presented in this review are very interesting developments. All the references are appropriate. I have a question/suggestion as below: Were these figures published or they are original produced for this review? The inclusion of figure(s) that was published earlier without modification (Figure 3) may not be appropriate. The journals published these figures may hold the copyright and require permission to reproduce them. Even with the permission, there should be a citation in the figure legends indicating the origin of the figure. If the figure(s) is original, please give details about the figure (methods obtaining the image, materials and methods or treatment etc).