**Review for “Combining Stem Cells and Biomaterial Scaffolds for Constructing Tissues and Cell Delivery”, by Willerth, SM and Sakiyama-Elbert, SE. DOI 10.3233/STJ-180001.**

<https://content.iospress.com/articles/stemjournal/stj180001>

(this Review article is an update of a Chapter of the same name on [www.StemBook.org](http://www.StemBook.org) that had gone through extensive review before)

The Reviewer has selected to remain anonymous.

Rate the below 5 markers with a number between (low/poor)  1  2  3  4  5 (high/excellent):

* Significance to Field: 4
* Methodology: N/A
* Data Analysis: N/A
* Literature Review: 4
* Writing Style/Clarity:  4

Your recommendation: (choose the option that most closely summarizes your recommendation)

* Accept As Is
* **Accept Pending Minor Revisions**
* Revise and Resubmit After Major Revisions
* Reject Outright

Narrative (sent to corresponding author and other reviewers):

The paper has provided extensive information about the current state of the field of Stem Cells and Biomaterials, however at the moment the paper needs:

1- In Section 2.1. Hydrogels- Authors should provide more recent works that show more proof-of-concept data on the effect of hydrogel micromanagement on the stem cells fate. Might need to provide some in-vivo studies and current state of the field in clinical studies.

2 - In Section 4.1.4. PPy - Authors would need to provide some examples of biological molecules when they cited the reference number 238 - the work on MSCs. At the moment, it is not clear what those molecules are.

3 - In Section 6 - Conclusions and Future Studies:

Authors would need to provide some other future directions of the field. At the moment, they just mentioned, using 3D printing strategies for producing a vascular network, this would need more clarification and providing some other future recommendations for opening new directions in the field.