

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 64506

Title: Induced pluripotent stem cells as suitable sensors for fibromyalgia and myalgic encephalomyelitis/chronic fatigue syndrome

Reviewer's code: 00068723

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor, Occupational Physician

Reviewer's Country/Territory: Japan

Author's Country/Territory: Spain

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Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2021-03-09 23:24

Reviewer performed review: 2021-03-13 00:29

Review time: 3 Days and 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

The authors reviewed plasma or urine composition of patients with myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) or fibromyalgia (FM). The focus of the manuscript was search for clues to differential diagnosis between FM and ME/CFS. As the authors stated, causes of FM and ME/CFS were not known. One interesting result was that choline was decreased in patients with FM and ME/CFS. Choline is related with acetylcholine, a neurotransmitter. These results suggested that FM was related with dysfunction of neurotransmitter. It would make this review more attractive to spend discussion focusing on the relation between decreased levels of choline and cause of the diseases. Data were interesting obtained from conditioned medium from cultured cells. Induced pluripotent (iPS) cells were another useful methods because they could be established from the patients and differentiate to fibroblast or the other cells. Are there any data on conditioned medium from cultured cells differentiated from iPS cells established from the patients with FM or ME/CFS?