

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Oncology

Manuscript NO: 64445

Title: Breast cancer: Muscarinic receptors as new targets for tumor therapy

Reviewer's code: 05837732

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: France

Author's Country/Territory: Argentina

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-02-19 10:32

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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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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 type="checkbox"/> Accept (High priority) <input checked="" 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

COMMENTS TO AUTHORS: The review by Español et al discusses the potential use of muscarinic agonists in combination with conventional chemotherapeutic agents, such as paclitaxel and doxorubicin, in the metronomic treatment of breast cancer. Due to the lack of expression of muscarinic acetylcholine receptors in the normal mammary gland, the authors argue that this proposed combinatorial treatment is particularly relevant to prevent the cytotoxic effects of the drugs on normal cells. The manuscript adequately reports on the current state of knowledge of breast cancer and currently used therapies, muscarinic acetylcholine receptors and their interaction with conventional chemotherapeutic agents. The metronomic therapy section is well documented with appropriate bibliography. In general, this review is coherently organized and well written. Minor concern: - page 5, lane 7: The authors claim that “changes in the cellular phenotype lead tumor cells to invade the surrounding matrix,...”. Invasion is due to changes in the cellular biological properties (which includes cellular phenotype), as cells are subjected to an epithelial-to-mesenchymal transition (EMT). The text should be modified accordingly.