

## JOURNAL EDITORIAL BOARD'S REVIEW REPORT

**Name of journal:** World Journal of Stem Cells

**Manuscript NO:** 89107

**Title:** High quality repair of osteochondral defects in rats using the extracellular matrix of antler stem cells

**Journal Editor-in-Chief/Associate Editor/Editorial Board Member:** Shengwen Calvin Li

**Country/Territory:** United States

**Editorial Director:** Jia-Ping Yan

**Date accepted review:** 2024-01-12 08:16

**Date reviewed:** 2024-01-18 07:36

**Review time:** 5 Days and 23 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input checked="" type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	language polishing	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Major revision

## JOURNAL EDITORIAL BOARD COMMENTS TO AUTHORS

The preliminary study utilizing decellularized antler ECM-sheets, obtained from either quiescent (APC) or active (RMC) stem cells, showed effective restoration of complete osteochondral lesions. Notably, the utilization of these extracellular matrices (ECMs) successfully repaired defects without the inclusion of viable cells. The increasing prevalence of decellularized extracellular matrix (ECM), especially xenogeneic ECM, in the field of cartilage tissue engineering shows great potential because it can replicate certain characteristics that cannot be achieved with artificial biomaterials. The lack of blood vessels in cartilage poses a difficulty for natural healing, but it also provides benefits like as immunological protection. This allows for the use of extracellular matrix (ECM) from sources like other individuals or different species, which reduces the risk of rejection problems. Moreover, the compact structure of cartilage extracellular matrix (ECM), as demonstrated by antler cartilage ECM, can potentially strengthen its low immunogenicity or even lack of immunogenicity, so offering a



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physical shield to chondrocytes against T and natural killer cells that are generated after the rejection of a graft.