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REVIEWER'S REPORT

Manuscript No.: IJAR-58397

Title: *Molecular Mechanisms of Stem Cell–Derived Exosomes in Myocardial Regeneration and Cardiac Remodelling in Heart Failure*

Recommendation:

Accept as it is .....

✓ Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance	✓			

Reviewer Name: Dr S. K. Nath

Detailed Reviewer's Report

Strength of the study:

- The review covers an important and emerging topic in cardiovascular medicine
- The manuscript is comprehensive and supported by recent literature
- Molecular mechanisms are explained in a logical sequence
- Figures and tables improve understanding of complex concepts
- The discussion includes translational challenges and future directions
- The review is scientifically relevant for researchers and clinicians
- The overall organization of the manuscript is clear and systematic

Weakness of the study:

- The manuscript is lengthy and contains repetitive information
- Some sections can be shortened for better readability
- A few grammatical and formatting errors require correction
- Clinical evidence is limited compared with preclinical findings
- More critical comparison of published studies would strengthen the review
- Ethical aspects of stem cell sources deserve additional discussion
- Some illustrations could be simplified for easier interpretation

Reviewers Comments:

This review presents a detailed overview of the molecular mechanisms through which stem cell derived exosomes may promote myocardial regeneration and cardiac remodeling in heart failure. The topic is timely and clinically significant, and the manuscript is supported by an extensive review of current literature. The figures and tables effectively summarize complex pathways and improve the readability of the manuscript. The writing is generally clear, although minor grammatical errors, repetition, and formatting inconsistencies should be corrected before publication. Since this is a review article, ethical clearance is generally not required; however, the authors should clearly mention that no human participants or animal experiments were directly involved if applicable. The review would benefit from a more balanced discussion of conflicting evidence, limitations of current studies, and ongoing clinical challenges. Overall, the manuscript is scientifically valuable, well organized, and provides useful insights for researchers working in regenerative cardiovascular medicine.

Previously Published anywhere/Plagiarism check:

The manuscript appears to be an original review prepared from published scientific literature. No obvious evidence of duplicate publication was identified during this review. However, a standard plagiarism similarity check should be completed by the journal before acceptance to confirm originality and ensure compliance with publication ethics.