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RESPONSE TO LETTER

# Response to Article "Microfluidic Synthesis of miR-200c-3p Lipid Nanoparticles: Targeting ZEB2 to Alleviate Chondrocyte Damage in Osteoarthritis" [Response to Letter]

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## Dear editor

Thank you for your letter and for the readers' comments concerning our manuscript entitled "Microfluidic Synthesis of miR-200c-3p Lipid Nanoparticles: Targeting ZEB2 to Alleviate Chondrocyte Damage in Osteoarthritis". These opinions have a certain guiding significance for our follow-up research.

Thank you for your interest in our research and your question regarding the lack of animal experiments in our studies. We want to clarify that we are conducting relevant animal experiments; however, due to the need for ethical approval and the duration of the experimental cycle, we do not yet have complete results. We look forward to sharing our findings with you as soon as they are available. The stability and potential side effects of nanomaterials pose significant challenges to the advancement of nanopharmaceutics. To address this issue, we have chosen liposome nanomaterials, which are widely used in clinical practice, to facilitate the process of clinical transformation. The pathological mechanisms of osteoarthritis are quite complex. This paper primarily focuses on the inflammatory response triggered by lipopolysaccharides (LPS). In future work, we will further explore related mechanisms, including cartilage degeneration, oxidative stress, and synovial disease.

## Disclosure

The authors report no conflict of interest in this communication.



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