Dear editor- in-chief,

We would like to submit the enclosed manuscript entitled “Making a pleural effusion model in rats with polyacrylate/nanosilica and isolating nanoparticles in the pleural effusion ”, which we wish to be considered for publication in “JOVE”. No conflict of interest exits in the submission of this manuscript, and the manuscript is approved by all authors for publication. We certify that the submission is original work and is not under review at any other publication. All the authors listed have seen and approved the manuscript that is enclosed.

In the study, we aim to make a model of pleural effusion in rats by intratracheal instillation of polyacrylate/nanosilica, and to introduce the method of nanoparticles isolation in pleural effusion. Ultrasound and CT examinations were performed to confirm the presence of pleural effusion. This model may be useful for the further study of nanotoxicology and pleural effusion diseases.

We deeply appreciate your consideration of our manuscript, and we look forward to receiving comments from the reviewers.

Sincerely yours,

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