OMTN, Volume 22

Supplemental Information

Notochordal-Cell-Derived Exosomes Induced by Compressive Load Inhibit Angiogenesis via the miR-140-5p/Wnt/β-Catenin Axis

Zhen Sun, Bing Liu, Zhi-Heng Liu, Wen Song, Dong Wang, Bei-Yu Chen, Jing Fan, Zhe Xu, Dan Geng, and Zhuo-Jing Luo

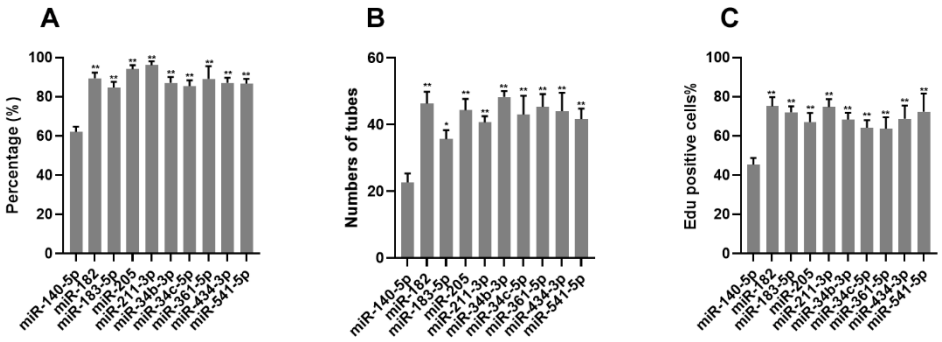

Figure S1. Effect of upregulated miRNAs of 0.5MPa/NCs-exos on angiogenesis. (A) Effect of upregulated miRNAs on migration of HUVECs. Mean±SEM are provided (n=3). *p<0.05, **p <0.01 for comparison with miR-140-5p group. **(B)** Effect of upregulated miRNAs on tube formation ability of HUVECs. Mean±SEM are provided (n=3). *p<0.05, **p<0.01 for comparison with miR-140-5p group. **(C)** Effect of upregulated miRNAs on proliferation of HUVECs. Mean±SEM are provided (n=3). *p<0.05, **p<0.01 for comparison with miR-140-5p group. NCs-exos: notochordal cells-derived exosomes.

Table S1 Primer sequences used in quantitative real-time polymerase chain reaction

Gene symbol	Forward primer	Reverse primer	GenBank ID
brachyury	GAGTGGACCACCTGCTGAGC	GGTGGATGTAGACGCAGCTG	292301
miR-140-5p	GAGTGTCAGTGGTTTTACCCT	GCAGGGTCCGAGGTATTC	406932
miR-U6	GGAACGATACAGAGAAGATTAGC	TGGAACGCTTCACGAATTTGCG	26827

Table 2 Sequences of synthetic miR140-5p mimic/inhibitor

Gene symbol	Sequences (5'-3')
miR-140-5p mimic	CAGUGGUUUUACCCUAUGGUAGACCAUAGGGUAAAACCACUGUU
miR-140-5p inhibitor	AACCCAUGGAAUUCAGUUCUCA