

Supplementary Material

Extracellular vesicles secreted by pre-hatching bovine embryos produced in vitro and in vivo alter the expression of IFN τ - stimulated genes in bovine endometrial cells

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1 Supplementary Figures

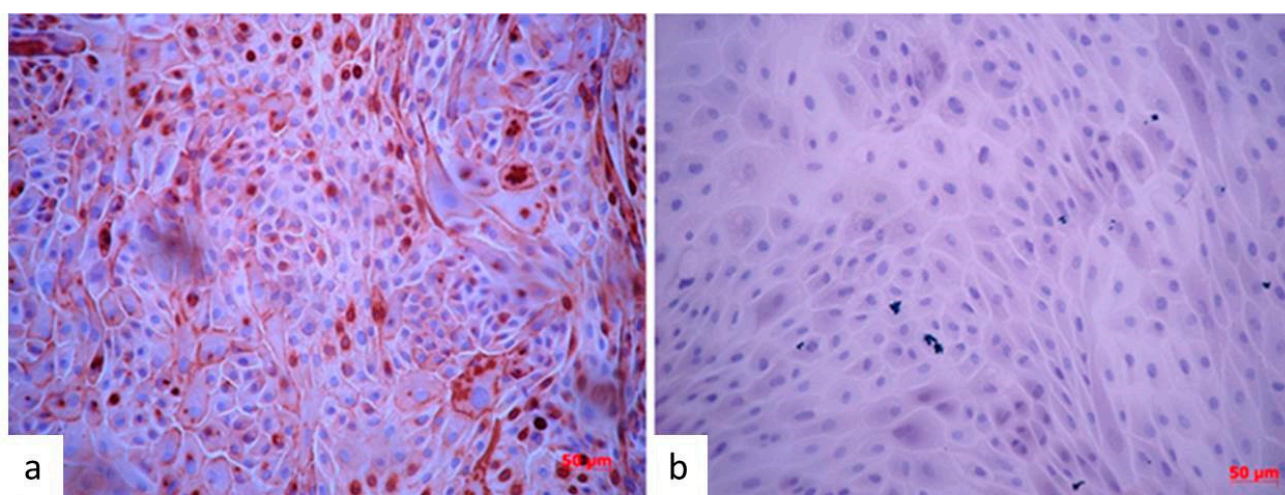


Figure 1S. Immunocytochemistry of cytokeratin. a) epithelial cells positive to cytokeratin , b) negative cells to vimentin stromal cell marker.

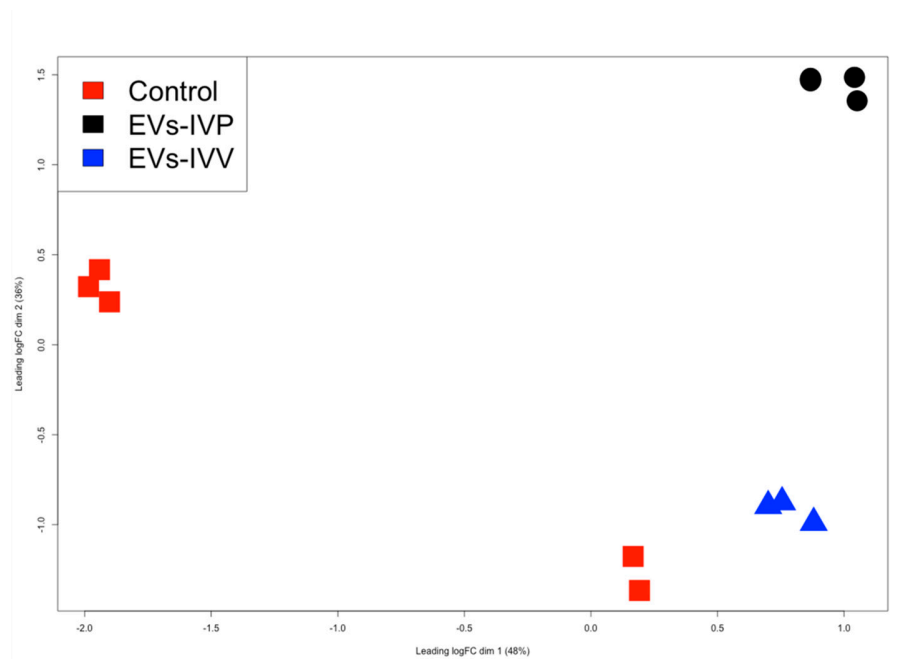


Figure 2S. Principal component analysis (PCA) of gene expression level in endometrial cells exposed to in vitro (EVs-IVP) or In vivo (EVs-IVV) EVs from bovine embryos. The PCA shows clusters of expressed genes that differ across the samples.

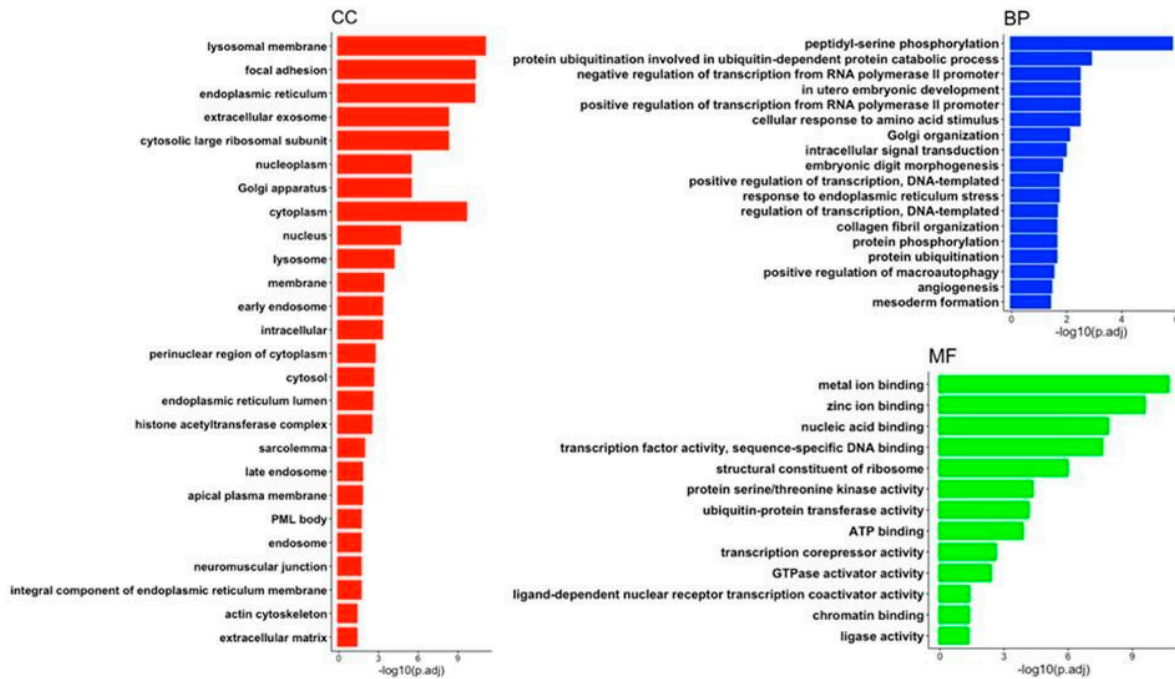


Figure 3S. G.O analysis based on DEGs between EVs-IVV and control. The significantly pathways were classified as biological process (BP), cellular component (CC) and molecular function (MF).

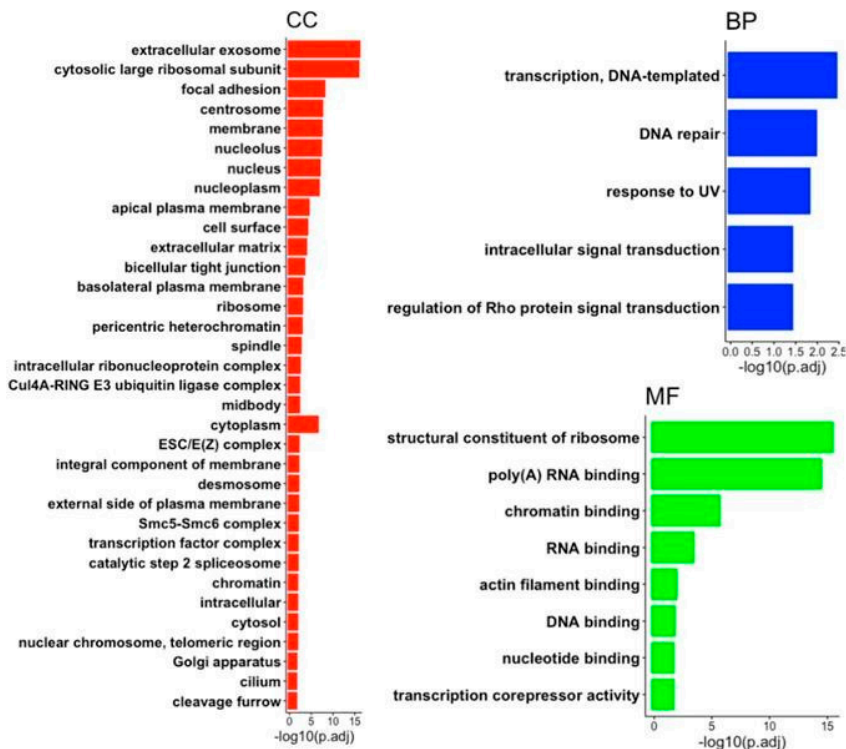


Figure 4S. G.O analysis based on DEGs between EVs-IVP and control. The significantly pathways were classified as biological process (BP), cellular component (CC) and molecular function (MF).

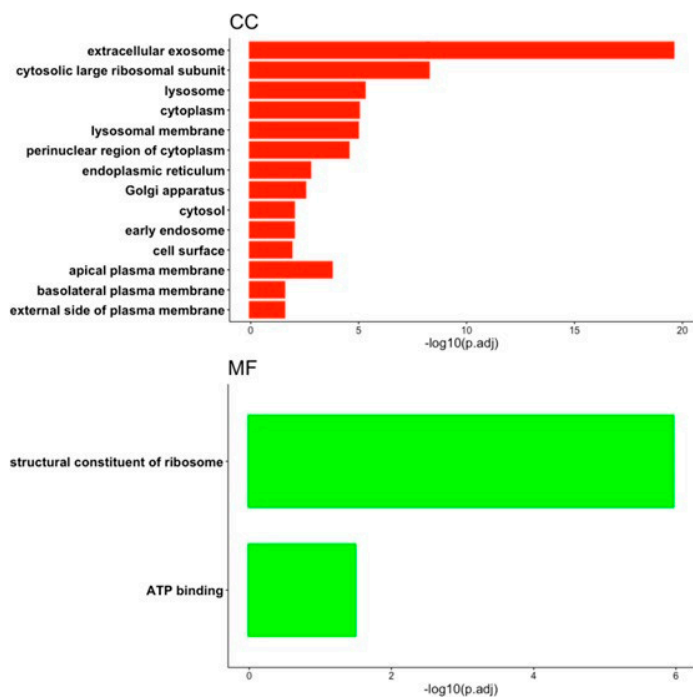


Figure 5S. G.O analysis based on DEGs between EVs-IVP and EVs-IVV. The significantly pathways were classified as biological process (BP), cellular component (CC) and molecular function (MF). Non biological process was up regulated by EVs-IVP in bEECs compared to EVs-IVV.

Table 1S. Number of reads sequence per sample and Mapping rates. More than 93% of the setof reads of each sample aligned one time and less than 4% aligned more than 1 time, with a total rate of alignment more than 98% reflecting the accurate of assembly using the genome reference ARS-VCD1.2

Sample ID	Total Reads	Reads aligned 1 time	Reads aligned > 1 time	Total Aligment Rate
Control1	28474603	27051719 (95.00%)	933916 (3.28%)	99.07%
Control2	23415608	22301271 (95.24%)	768176 (3.28%)	99.18%
Control3	28609208	27179707 (95.00%)	953299 (3.33%)	99.13%
Control4	21993991	20566496 (93.51%)	822725 (3.74%)	98.59%
Control5	25892496	24243743 (93.63%)	891009 (3.44%)	98.47%
EVs- IVV1	27239389	25600687 (93.98%)	950207 (3.49%)	98.68%
EVs- IVV2	24962780	23549901 (94.34%)	822727 (3.30%)	98.77%
EVs- IVV3	26056250	24559132 (94.25%)	859209 (3.30%)	98.73%
EVs- IVP1	24351896	23181076 (95.19%)	800772 (3.29%)	99.16%

