

Isolation and characterization of extracellular vesicles from culture media individually conditioned by bovine blastocysts and by bovine or human degenerate embryos

Pavani, K.C.¹; Hendrix, A.²; Leemans, B.¹; Tilleman, K.³; Van Soom, A.¹

¹Department of Reproduction, Obstetrics and Herd Health, Faculty of Veterinary Medicine,

²Department of Radiation Oncology and Experimental Cancer Research, Ghent University,

³Department for Reproductive Medicine, Ghent University Hospital, De Pintelaan 185, 9000 Ghent, Belgium.

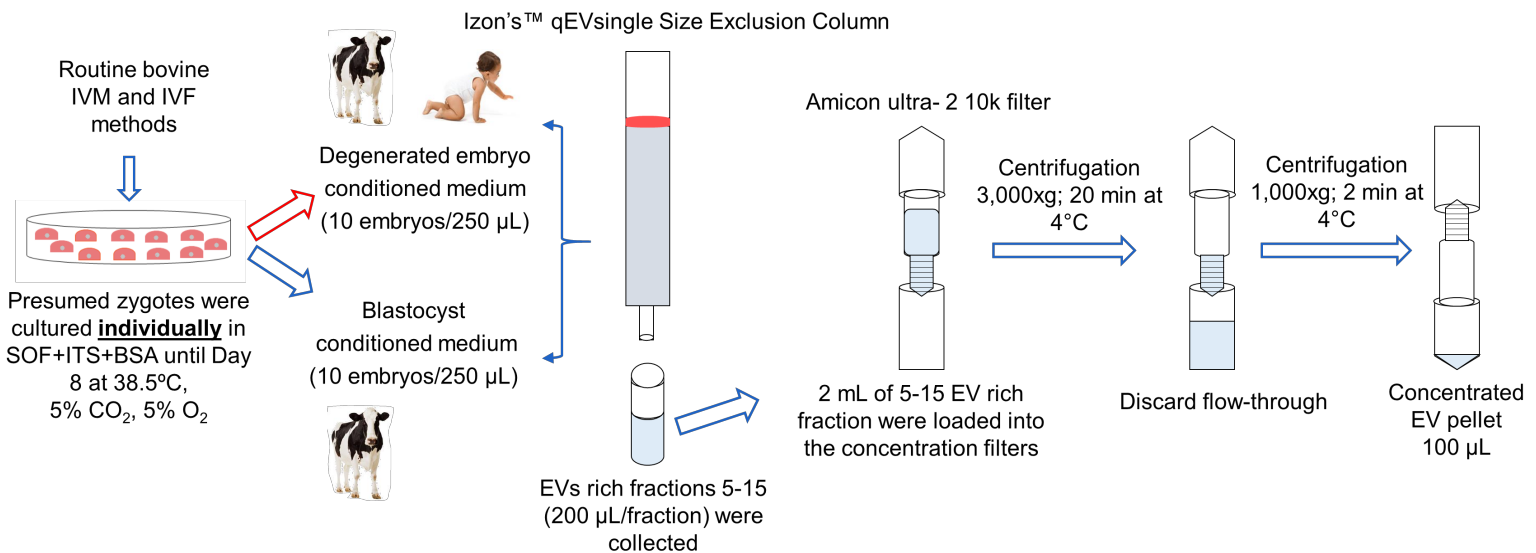
Study question

Are extracellular vesicles (EVs), as putative autocrine factors, released into the culture medium by individually cultured bovine embryos? Similarly, can human embryos release EVs into the culture medium?

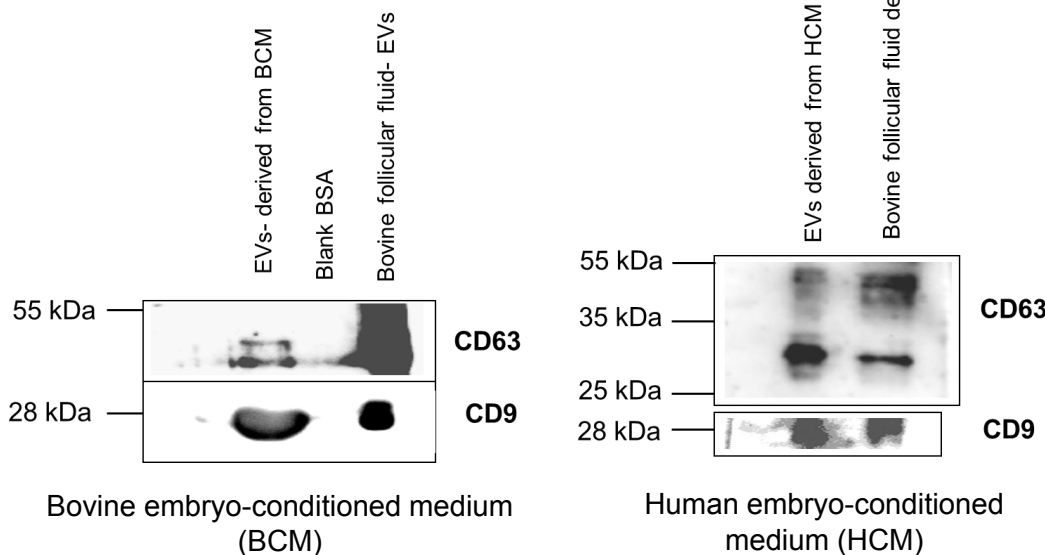
Summary answer

Extracellular vesicles were identified by electron microscopy and western blotting after isolation from embryo-conditioned media. We confirmed that individually cultured bovine and human embryos can release EVs into culture medium.

Experimental Design



Western Blot



Electron microscopy

