The caveolin protein family are integral membrane proteins that dictate the formation of caveolae, flask-shaped invaginations of the plasma membrane, by facilitating structural change of membrane curvature and lipid raft composition(Ariotti *et al.* 2015). Yet, recent studies reveal that caveolin alone is not sufficient for stable caveolae production and requires coat proteins of the cavin family (Hill *et al.* 2008). However, of the cavin members, only cavin-1 can directly bind to CAV1 (Bastiani *et al.* 2009).

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Initially, comparisons were made between GFP and cavin-1 cell lines individually for cell and EV content for each miR and expressed in the form of log2FC.

Further comparisons between all miRs identified in EVs (n=95) to the cellular levels reveals a total of 19 miRs that may be modified selectively. Generally, miRNAs present in the EVs change proportionately to the cellular expression changes induced by cavin-1, however several species present with a dramatic decrease in EVs compared to cells where 5 of these are significantly modified between cell lines.