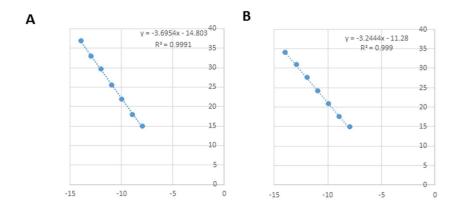


Supplementary Figure 1. (**A**) Investigation of relationship between circulating EV number and disease stage (**B**) Circulating EV number in healthy control individuals compared to breast cancer patients with primary tumours in situ and those with metastases present.



Supplementary Figure 2. A standard curve for 1×10^{-8} to 1×10^{-14} mol dilutions of synthetic miR-451a was reproduced and a linear equation (**A**) (y = -3.70 X-14.80) for the murine study and (**B**) (y = -3.24 X-11.31) for human sample analysis was accepted.