



**Figure S1: Human BM-MSC and ASC characterization . (A):** Flow cytometry analysis. BM-MSC (left) and ASC (right) in culture display a mesenchymal phenotype: CD105+, CD73+, CD90+, CD45-, CD34-, CD11b-, CD19-, HLA-DR-. **(B):** BM-MSC (left) and ASC (right) adhere to plastic (upper panels) and differentiate into adipocytes demonstrated by numerous lipidic droplets stained with Oil red-O (middle panels) and osteoblasts demonstrated by calcic deposits stained with Alizarin red (down panels) when cultured under standard differentiating conditions. (scale bars 50  $\mu$ m).