



Fig. S1. NAM treatment enhances cell proliferation and cell viability. (A) Determination of cell division number. The method developed by Lyons and Parish (1994) was used. Briefly, BMSCs from 39-yr old donor were briefly incubated with $0.5 \mu\text{M}$ carboxyfluorescein ccinimidyl ester (CFSE), and divided into two plates and cultivated in the absence (red line) or presence (pink line) of NAM. After seven days, cells were analyzed by flow cytometry by using FACSCalibur (BDBiosciences). (B) Determination of cell viability. Cells were cultivated in the absence (-) or presence (+) of NAM for 3 days, Number of viable cells were counted in AccuChip kit (Science services, Munchen, Germany).