



## Adhesion and Mesenchymal cell markers

**Figure S1.** Representative BM-MSCs' characterization. A. Morphology. B. Representative plot of multicolor flow cytometry showing the expression/adhesion cell markers CD44<sup>+</sup> (glycoprotein), CD29<sup>+</sup> (β-integrin), and CD105<sup>+</sup>s (endoglin) expression in the absence of hematological marker CD45.

**Supplementary Table S1.** Absolute number (concentration) of WBCs and RBCs and percentage of Neutrophils, according to age or site of BM sampling.

Volunteers	Youngsters	Adults	Elders	Site of BM sampling		
Age (range)	18-35	36-65	65-92	Femur	Iliac Crest	Sternum
WBC (10 <sup>3</sup> /ml)	68413 ± 32914	40711 ± 29031*	25532 ± 18047**	31650 ± 220305	52280 ± 26307	18725 ± 6167
RBC (10 <sup>6</sup> /ml)	4.22 ± 1	3.45 ± 2	3.35 ± 1.2	4.29 ± 1	3.45 ± 2	4.7 ± 3
Neutrophils (%)	62.45 ± 6	64 ± 12	63 ± 2	62.14 ± 14	51 ± 15	53 ± 16

\*  $p < 0.05$ .**Supplementary Table S2.** Percentage of suppression of heterologous (Hetero) or autologous (Auto) T cell proliferation exerted by youngsters or adults or elders I-MDSCs either purified freshly (EX VIVO) or upon treatment with by G/GM CSF (G/GM induced).

Ratio I-MDSC/PBMC	2:1			1:1			0.5:1		
I-MDSC	EX VIVO		G/GM induced	EX VIVO		G/GM induced	EX VIVO		G/GM induced
Target	Hetero	Auto	Hetero	Hetero	Auto	Hetero	Hetero	Auto	Hetero
Youngsters	16 ± 32	34 ± 30	74 ± 21	10 ± 21	16 ± 17	47 ± 26	5 ± 14	0	17 ± 19
Adults	31 ± 34	50 ± 15	75 ± 8	16 ± 25	26 ± 14	34 ± 20	9 ± 15	4 ± 6	10 ± 16
Elders	51 ± 24	66 ± 20	66 ± 22	36 ± 26	29 ± 16	49 ± 20	14 ± 12	8 ± 12	14 ± 19