

Supplementary Table 1. Donor population

Donor ID.	Age	Gender	Final PD	Culture Period (days)	Telomere			p16 gene	
					Early mTRFL (kb)	Late mTRFL (kb)	Shortening ratio (bp)	Group ^a	Methylation ^b
hMSC08	67	F	25	164	6.7	6.5	30	GI	ND
hMSC09	66	M	29	175	10.8	8.1	150	GI	ND
hMSC15	42	M	27	117	9.4	7.1	120	GI	ND
hMSC16	63	F	18	132	8.5	7.1	200	GI	-
hMSC18	49	F	26	116	7.8	6.4	90	GI	ND
hMSC19	20	M	31	147	9.9	7.2	120	GI	ND
hMSC21	57	M	22	123	9.9	8.4	120	GI	ND
hMSC22	65	M	27	113	9.2	7.1	110	GI	ND
hMSC23	29	F	29	151	9.9	7.2	160	GI	ND
hMSC25	66	M	27	149	8.5	7.4	50	GI	ND
hMSC28	28	M	28	117	10.0	7.4	170	GI	-
hMSC29	51	F	25	132	10.1	8.0	140	GI	-
hMSC34	77	F	27	159	9.9	8.8	60	GI	-
hMSC35	69	F	27	153	9.8	7.2	140	GI	-
hMSC36	44	M	28	180	9.1	7.8	70	GI	-
hMSC37	42	F	37	240	10.9	7.6	120	GI	-
hMSC38	84	M	13	125	8.3	8.0	50	GI	-
hMSC39	19	M	35	181	9.8	7.6	100	GI	-
hMSC40	18	M	39	199	8.9	7.3	60	GI	-
hMSC41	70	M	25	145	9.3	8.5	60	GI	-
hMSC42	29	F	30	167	9.9	7.5	110	GI	-
hMSC43	58	F	30	112	9.4	7.8	80	GI	ND
hMSC44	74	F	18	100	7.1	6.7	200	GI	ND
hMSC45	53	M	29	111	9.4	7.1	100	GI	ND
hMSC46	71	F	24	90	8.8	6.9	100	GI	ND
hMSC14	17	F	33	147	9.5	7.6	110	IR	+
hMSC17	24	F	54	334	11.5	6.9	130	IR	+
hMSC10	74	F	28	138	10.3	8.5	100	NI	+
hMSC24	10	F	27	170	9.0	7.1	100	NI	+
Average	49.1		28.1	151.2	9.4	7.5	109		
Stdev	21.8		7.2	47.7	1.0	0.6	43		