

Stem Cell Reports, Volume 3

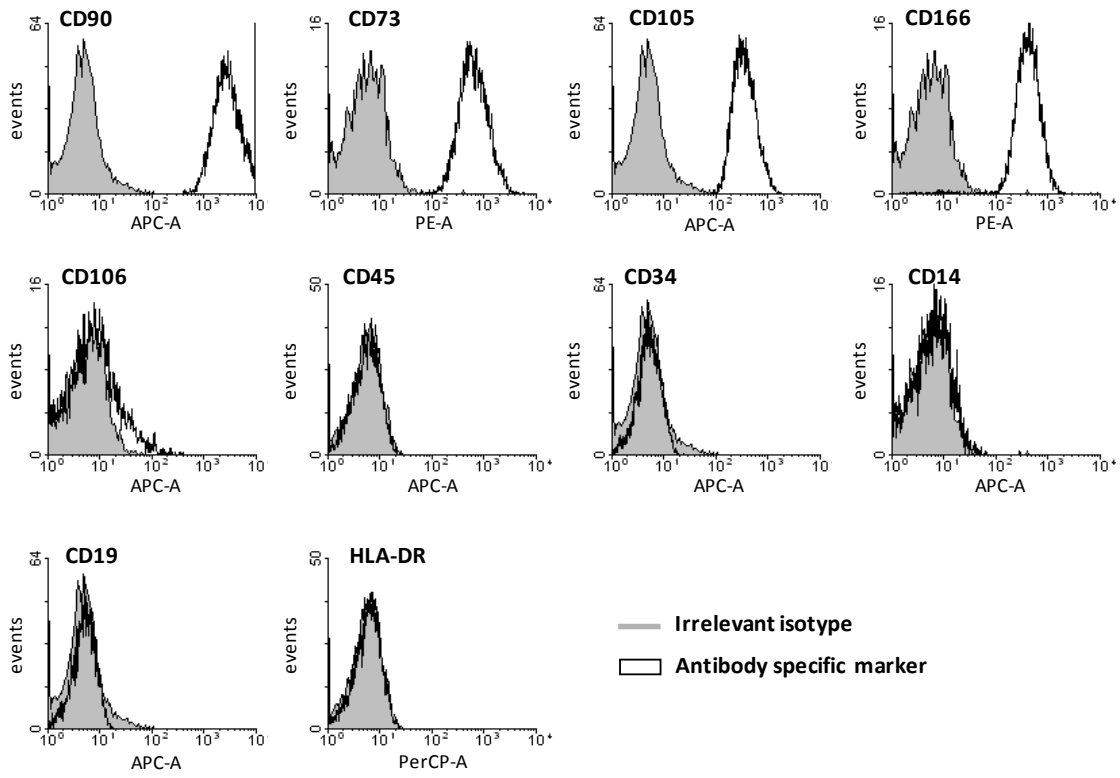
Supplemental Information

**Human Bone Marrow Stromal Cells Lose
Immunosuppressive and Anti-inflammatory Properties upon
Oncogenic Transformation**

Rene Rodriguez, Michael Rosu-Myles, Marcos Aráuzo-Bravo, Angélica Horrillo, Qiuwei Pan, Elena Gonzalez-Rey, Mario Delgado, and Pablo Menendez

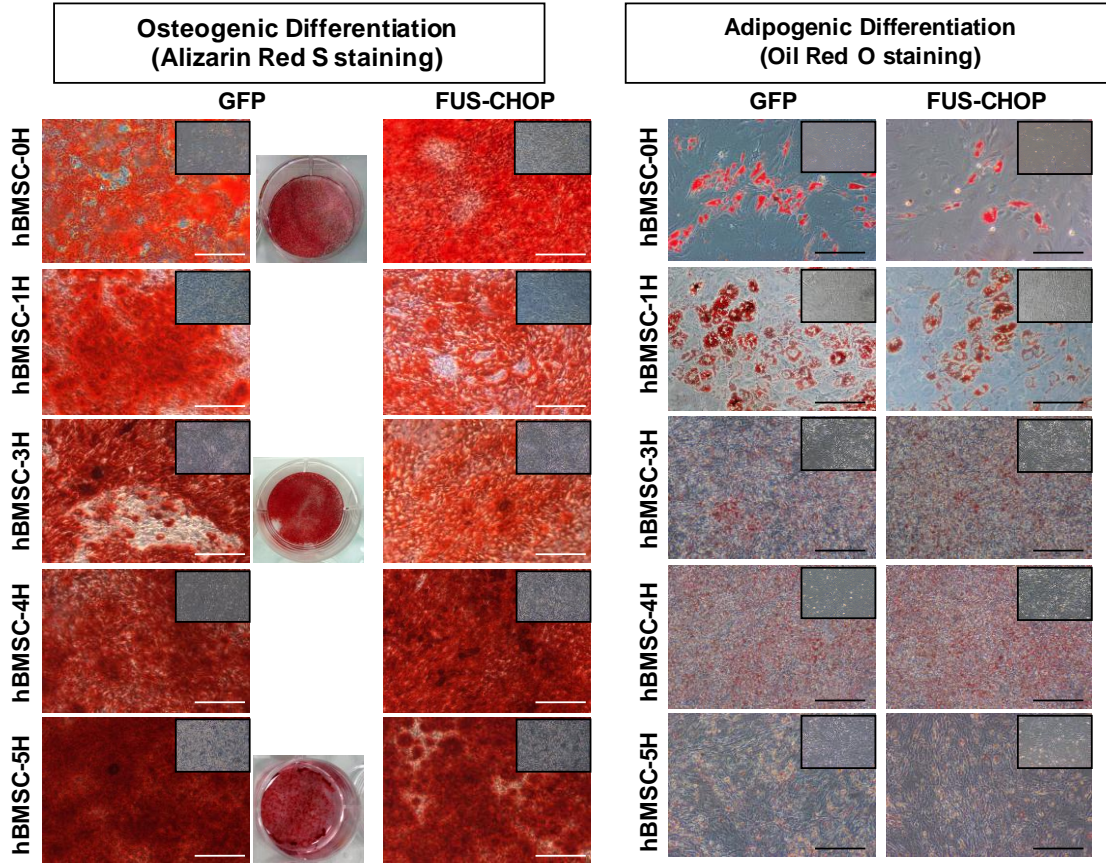
1.-SUPPLEMENTAL FIGURES

Supplemental Figure 1



Supplemental Figure 2

A



B

	adipogenic differentiation		Osteogenic differentiation	
	level of diff.	description	level of diff.	description
BMSC-0H-GFP	++	Abundant presence of adipocytes presenting fat droplets-filled cytoplasm	+	High level of extracellular calcium deposits
BMSC-0H-FC	+	Abundant presence of adipocytes presenting fat droplets-filled cytoplasm	+	High level of extracellular calcium deposits
BMSC-1H-GFP	+++	Abundant presence of adipocytes presenting fat droplets-filled cytoplasm	+	High level of extracellular calcium deposits
BMSC-1H-FC	++	Abundant presence of adipocytes presenting fat droplets-filled cytoplasm	+	High level of extracellular calcium deposits
BMSC-3H-GFP	+/-	Majority of partially differentiated cells presenting few fat droplets in the cytoplasm	+	High level of extracellular calcium deposits
BMSC-3H-FC	+/-	Majority of partially differentiated cells presenting few fat droplets in the cytoplasm	+	High level of extracellular calcium deposits
BMSC-4H-GFP	+/-	Majority of partially differentiated cells presenting few fat droplets in the cytoplasm	+	High level of extracellular calcium deposits
BMSC-4H-FC	+/-	Majority of partially differentiated cells presenting few fat droplets in the cytoplasm	+	High level of extracellular calcium deposits
BMSC-5H-GFP	-	low presence of partially differentiated cells presenting few fat droplets in the cytoplasm	+	High level of extracellular calcium deposits
BMSC-5H-FC	-	low presence of partially differentiated cells presenting few fat droplets in the cytoplasm	+	High level of extracellular calcium deposits

2.-SUPPLEMENTAL LEGENDS

Figure S1, related to Figure 1. Representative flow cytometric analysis of the surface markers indicated.

Figure S2, related to Figure 1. Sequential acquisition of oncogenic hits in hBMSCs impairs their adipogenic differentiation ability. **(A)** Representative images of the osteogenic (alizarin red staining; stained entire 6-well plates are shown to show that oncogenic hits do not impair osteogenic differentiation) and adipogenic (oil red staining) differentiation capacity of the indicated hBMSC cultures. Inset images represent negative controls of differentiation. Scale bars=100 μ m. **(B)** Summary table of the osteogenic and adipogenic potential of the hMSC assayed. The adipogenic differentiation was estimated according to the level of Oil Red staining as follows: +++ (>50% of cells show complete differentiation), ++ (35%-50% of cells show complete differentiation), + (20%-35% of cells show complete differentiation), +/- (majority of the cells show partial differentiation) and - (<5% of the cells are partially differentiated). All the hMSC types assayed for osteogenic displayed a strong level of Alizarin Red S staining (+).

3.-SUPPLEMENTAL TABLE

Table S1. Summary of the immunophenotypic profile of the different hBMSCs used in this study, related to Figure 1.

hBMSC line	CD90	CD73	CD105	CD166	CD44	CD106	CD45	CD34	CD14	CD19	HLA-DR
hBMSC-0H-GFP	+	+	+	+	+	-	-	-	-	-	-
hBMSC-0H-FC	+	+	+	+	+	-	-	-	-	-	-
hBMSC-1H-GFP	+	+	+	+	+	-	-	-	-	-	-
hBMSC-1H-FC	+	+	+	+	+	-	-	-	-	-	-
hBMSC-3H-GFP	+	+	+	+	+	-	-	-	-	-	-
hBMSC-3H-FC	+	+	+	+	+	-	-	-	-	-	-
hBMSC-4H-GFP	+	+	+	+	+	-	-	-	-	-	-
hBMSC-4H-FC	+	+	+	+	+	-	-	-	-	-	-
hBMSC-5H-GFP	+	+	+	+	+	-	-	-	-	-	-
hBMSC-5H-FC	+	+	+	+	+	-	-	-	-	-	-