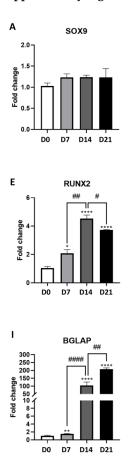
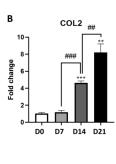
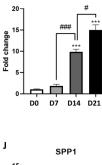
Supplementary Figure S1

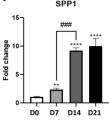


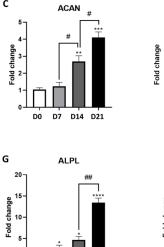


COL1



F



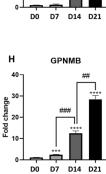


D7 D14 D21

С

0

D0



COLX

D

30

20

10

Figure S1. Relative expression levels of chondrocyte (a-d) and osteoblast (e-j) markers in ATDC5 cells throughout the 21 days of differentiation only in the control condicion. This is to prove that the differentiation was performed correctly. SOX9: SRY-box transcription factor 9; COL2: type II collagen; ACAN: aggrecan; RUNX2: Runt-related transcription factor 2; COL1: type I collagen; ALPL: alkaline phosphatase; GPNMB: osteoactivin; BGLAP: osteocalcin; SPP1: osteopontin. Bars represent means with SEM (n = 3). *: statistically different vs. day 0 (*p* < 0.05); **: *p* < 0.01; ***: *p* < 0.001; ****: *p* < 0.0001; #: statistically different vs. untreated control from the same day (*p* < 0.05); ##: *p* < 0.01; ###: *p* < 0.001; ####: p < 0.0001.

Supplementary Figure S2

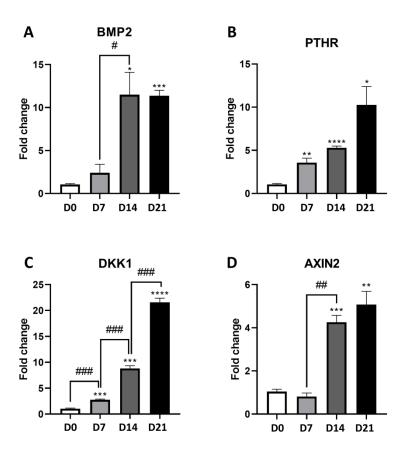


Figure S2. Relative expression levels of BMP2 (a), PTHR (b) and Wnt signallingrelated genes (c-d) in ATDC5 cells throughout the 21 days of differentiation only in the control condition. This is to prove that the differentiation was performed correctly. BMP: Bone Morphogenetic Protein 2; PTHR: Parathyroid Hormone 1 Receptor; DKK1: Dickkopf WNT Signaling Pathway Inhibitor; AXIN2: Axis Inhibition Protein 2. Bars represent means with SEM (n = 3). *: statistically different vs. day 0 (p < 0.05); **: p < 0.01; ***: p < 0.001; ***: p < 0.0001; ##: p < 0.01; ##: p < 0.01; ##: p < 0.001.