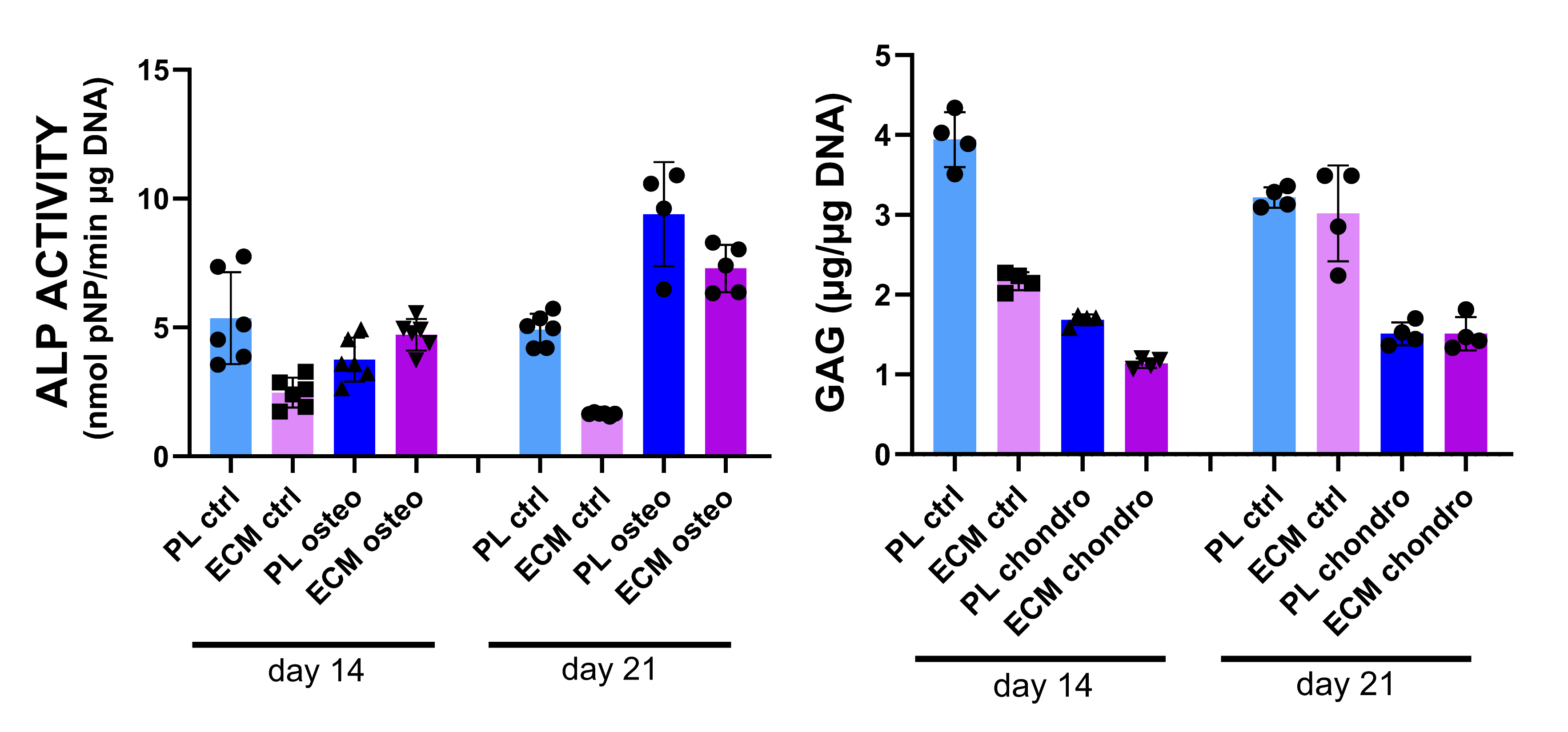
# **Supplementary Figures­­**



**Supplementary Figure 1: Expression of transcription factors in human BMSCs differentiated in three mesenchymal lineages.** Relative gene expression levels of transcription factor OSX (top left), RUNX2 (top right), PPARG (bottom left) and SOX 9 (bottom right) after 21 days of culture. Group labels: PL ctrl - plastic with control medium, ECM ctrl - ECM with control medium, PL osteo - plastic with osteogenic differentiation medium, ECM osteo - ECM with osteogenic differentiation medium, PL adipo - plastic with adipogenic differentiation medium, ECM adipo - ECM with adipogenic differentiation medium, PL chondro - plastic with chondrogenic differentiation medium, ECM chondro - ECM with chondrogenic differentiation medium. Data represents mean ± SD (n=4). Statistically-significant differences between the groups were evaluated using two-way ANOVA, followed by Tukey’s multiple comparison test, and are marked with: \*\*\*\*p < 0.0001.



***Supplementary Figure 2: ALP activity and GAG deposition normalized per DNA content.*** *ALP activity and GAG deposition were determined after 14 and 21 days of culture and normalized to DNA content. Group labels: PL ctrl - plastic with control medium, ECM ctrl - ECM with control medium, PL osteo - plastic with osteogenic differentiation medium, ECM osteo - ECM with osteogenic differentiation medium, PL chondro - plastic with chondrogenic differentiation medium, ECM chondro - ECM with chondrogenic differentiation medium. Data represents mean ± SD (n=4). Statistically-significant differences between the groups were evaluated using two-way ANOVA, followed by Tukey’s multiple comparison test.*