Electronic Supplementary Material (ESI) for Analyst

Assessment of an osteoblast-like cell line as a model for human primary osteoblasts using Raman spectroscopy

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Supplementary Figures

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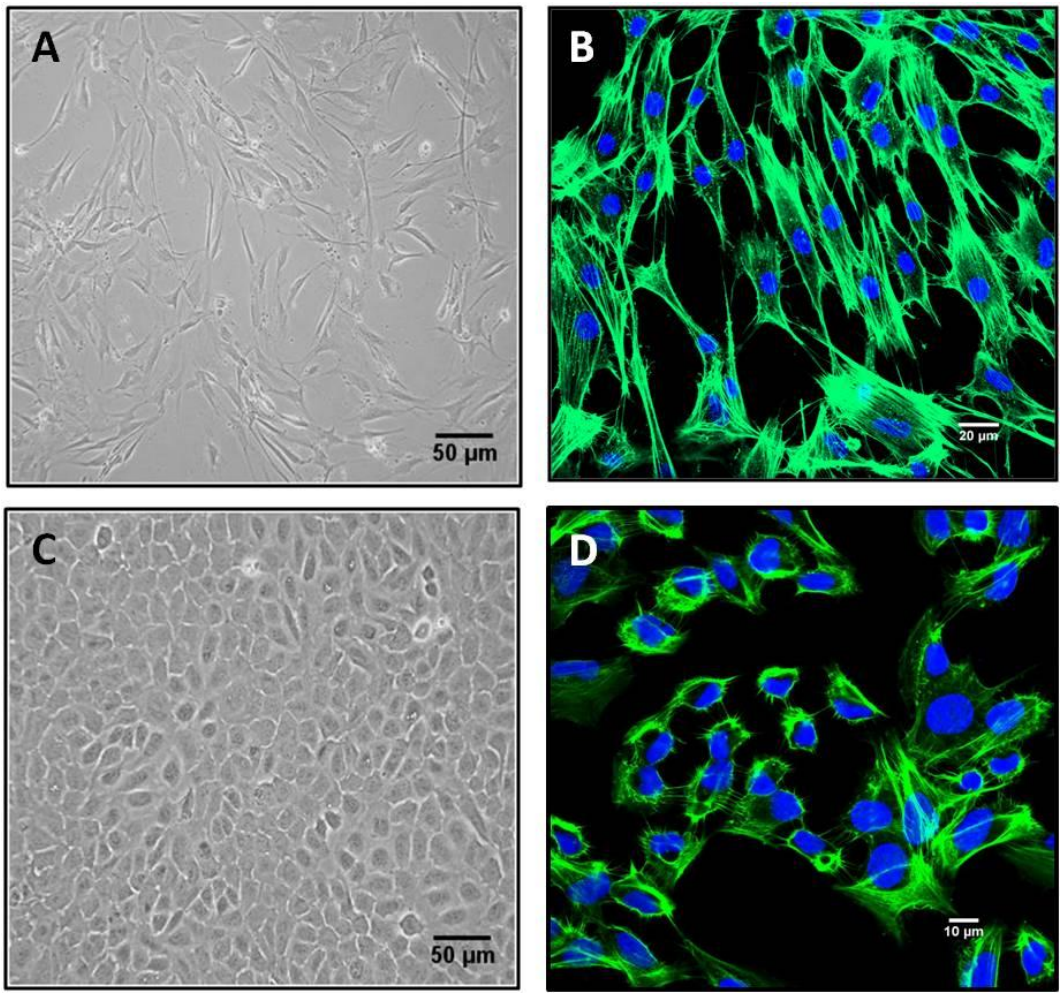
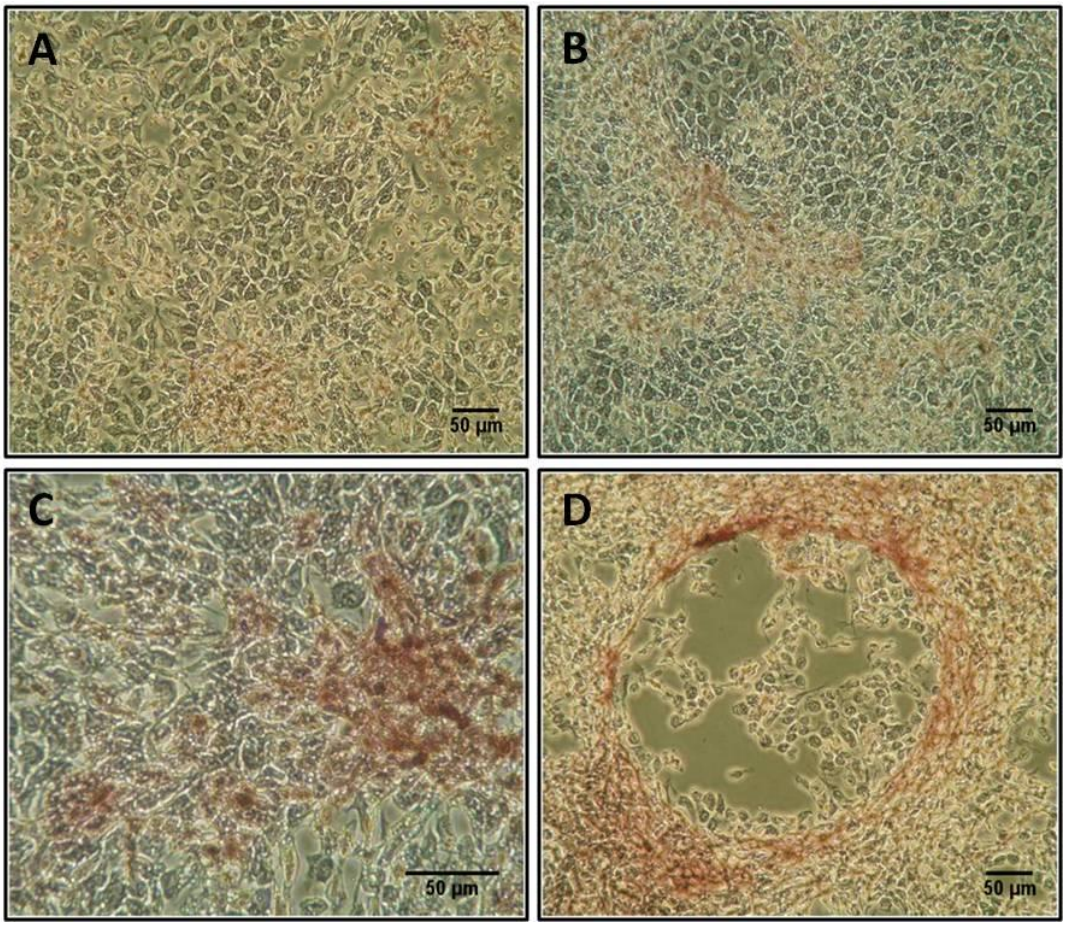
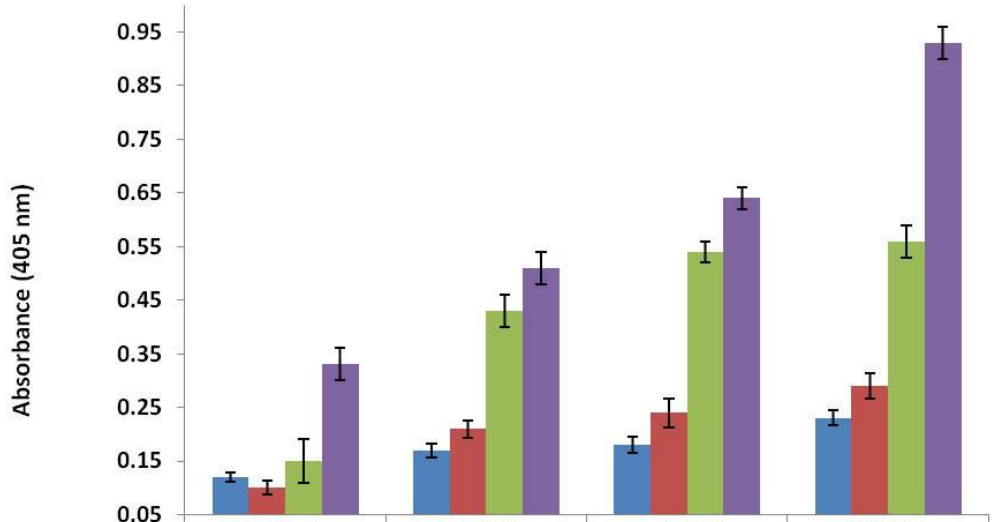


Supplementary Figure 1: Phase contrast micrographs of (A) HOBs and (C) U20Ss cultured for 48 h in non-osteogenic media and immunofluorescent labelling of (B) HOBs and (D) U20Ss cultured in non-osteogenic media. The scale bar represents (B) 20 µm and (D) 10 µm.

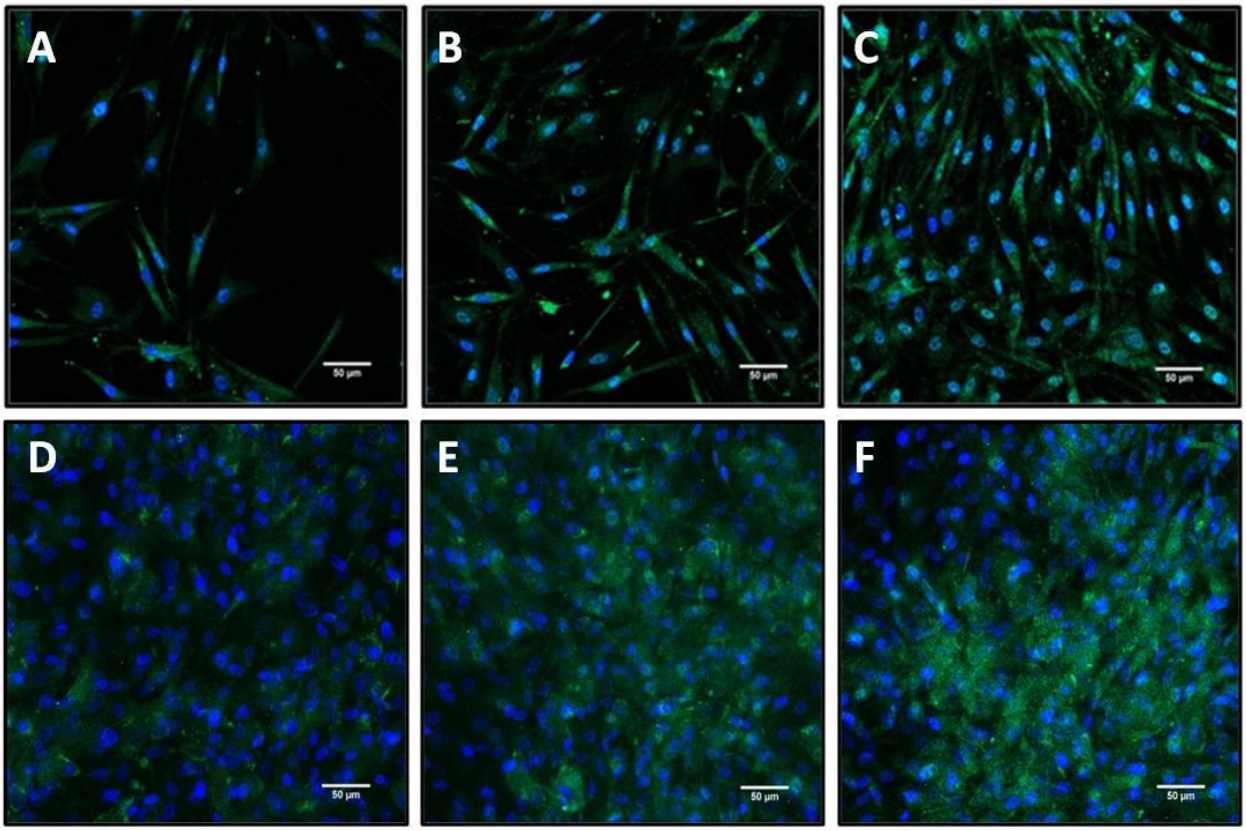


Supplementary Figure 2: Alizarin red staining of U20Ss cultured in non-osteogenic media for (A) 7 days, (B) 14 days, (C) 21 days and (D) 28 days.

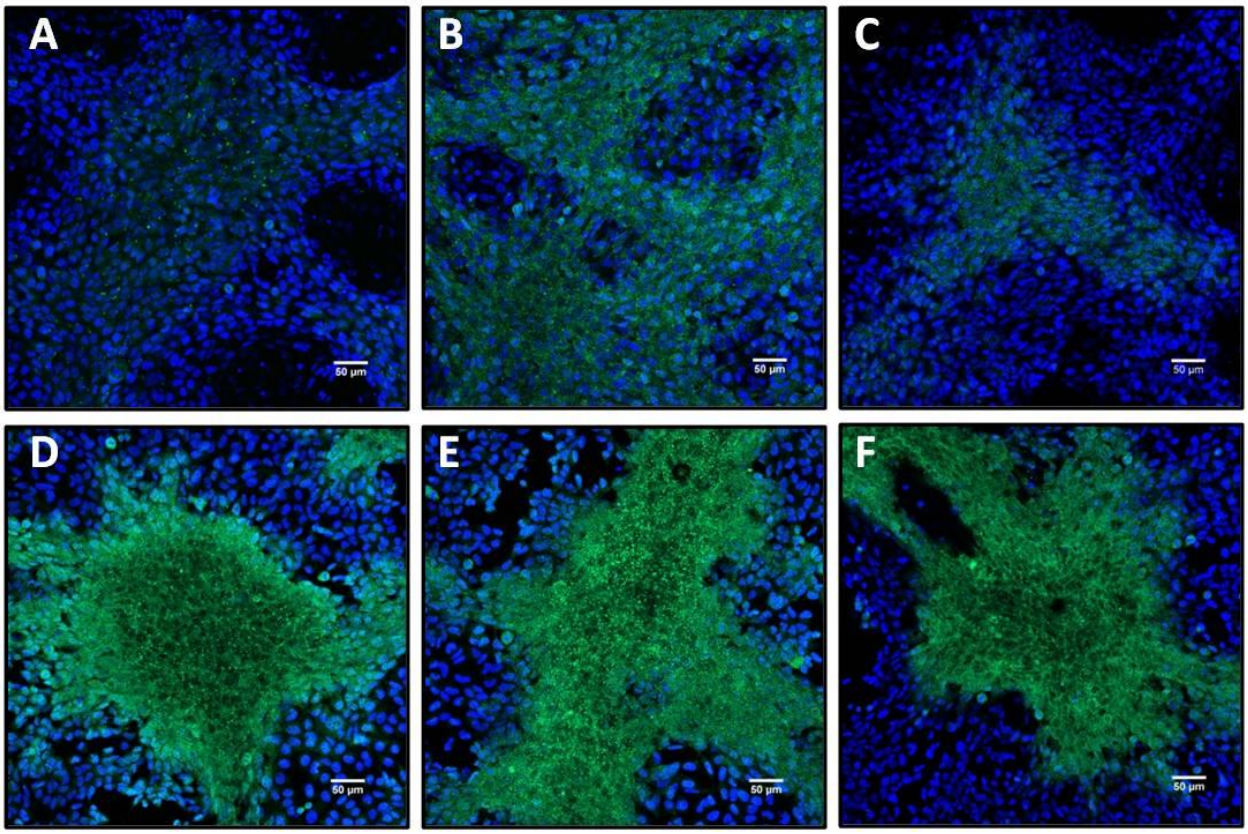


	Day 7	Day 14	Day 21	Day 28
NON-OSTEOGENIC HOBs	0.12	0.17	0.18	0.23
OSTEOGENIC HOBs	0.10	0.21	0.24	0.29
NON-OSTEOGENIC U20Ss	0.15	0.43	0.54	0.56
OSTEOGENIC U20Ss	0.33	0.51	0.64	0.93

Supplementary Figure 3: Graph showing the quantification of alizarin red staining for HOBs and U20Ss cultured for 28 days in both non-osteogenic and osteogenic media.



Supplementary Figure 4: Immunocytochemical localisation of OPN, OCN and ALP of HOBs cultured in non-osteogenic media (A-C) and osteogenic media (D-F) for 28 days. The scale bar represents 50 µm.



Supplementary Figure 5: Immunocytochemical localisation of OPN, OCN and ALP of U20Ss cultured for 28 days in non-osteogenic media (A-C) and osteogenic media (D-F). The scale bar represents 50 µm.