

**S4 Table.** Quantification of osteogenic differentiation of ovine mesenchymal stem cells (MSCs) for all coatings on 10 mm diameter and 3mm thickness discs.

<b>Timepoint (days)</b>	<b>Coating</b>	<b>Normalised ALP assay (<math>\pm</math>SD)</b>
3	Uncoated	10.1 $\pm$ 3.4
	Plasma sprayed	8.3 $\pm$ 1.6
	HA	5.7 $\pm$ 1.7
	SiHA	9.3 $\pm$ 2.7
	SrHA	8.1 $\pm$ 1.7
7	Uncoated	8.7 $\pm$ 2.8
	Plasma sprayed	7.2 $\pm$ 1.8
	HA	9.2 $\pm$ 1.4
	SiHA	8.8 $\pm$ 4.3
	SrHA	6.9 $\pm$ 0.9
14	Uncoated	12.6 $\pm$ 5.2
	Plasma sprayed	10.1 $\pm$ 5.4
	HA	7.8 $\pm$ 0.6
	SiHA	9.9 $\pm$ 5.8
	SrHA	12.6 $\pm$ 3.1