

Supplementary Table 9. Details of the differentially methylated probes identified within zinc transporter genes. The methylation differences at cg02362439 were genome-wide significant, however there was not a 10% difference in methylation between NOF and OA hip cluster 2.

Gene	CpG probe ID	Chr.	Location	Region	Mean β value NOF	Mean β value OA hip cluster 1	Mean β value OA hip cluster 2	Benjamini-Hochberg p value
<i>ZIP4</i>	cg22059438	8	145641882	Body	0.36	0.34	0.46	0.03
<i>ZIP7</i>	cg26750489	6	33171106	Body	0.59	0.54	0.76	0.002
	cg25059165		33171467	Body	0.34	0.32	0.50	0.003
	cg02362439		33171324	Body	0.63	0.59	0.72	0.006
<i>ZIP11</i>	cg25067702	17	70723227	Body	0.37	0.38	0.24	0.008
	cg11761483		70723386	Body	0.58	0.64	0.47	0.04
	cg21461745		70948937	Body	0.39	0.47	0.63	0.004
<i>ZIP14</i>	cg24136932	8	22281979	Body	0.44	0.52	0.64	0.006