

Table S1: Data for the gene expression of osteoblast-related markers. Mean, standard deviation and p value information after treatment with phenolic compounds vs control.

TGF-β1 Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	4,09 $\pm$ 1,11			
Apigenin 10 ⁻⁶ M	8,33 $\pm$ 0,38	0,003	-6,13	-2,33
Luteolin 10 ⁻⁶ M	13,87 $\pm$ 3,11	0,007	-15,08	-4,47
Ferulic acid 10 ⁻⁶ M	9,16 $\pm$ 0,60	0,002	-7,10	-3,02
Cumaric acid 10 ⁻⁶ M	27,31 $\pm$ 2,40	0,001	-28,26	-18,16
Cafeic acid 10 ⁻⁶ M	14,56 $\pm$ 4,00	0,012	-17,12	-3,79

TGFβ1-R1 Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.561 $\pm$ 0.099			
Apigenin 10 ⁻⁶ M	1.293 $\pm$ 0.202	0.005	-1.094	-0.369
Luteolin 10 ⁻⁶ M	1.180 $\pm$ 0.053	0.001	-0.799	-0.437
Ferulic acid 10 ⁻⁶ M	3.580 $\pm$ 0.740	0.002	-4.21	-1.82
Cumaric acid 10 ⁻⁶ M	1.787 $\pm$ 0.174	0.0001	-1.547	-0.903
Cafeic acid 10 ⁻⁶ M	1.903 $\pm$ 0.479	0.009	-2.127	-0.556

TGFβ1-R2 Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.926 $\pm$ 0.144			
Apigenin 10 ⁻⁶ M	2.098 $\pm$ 0.360	0.007	-1.798	-0.545
Luteolin 10 ⁻⁶ M	1.066 $\pm$ 0.26	0.471	-0.627	0.347
Ferulic acid 10 ⁻⁶ M	3.082 $\pm$ 0.23	0.0001	-2.603	-1.707
Cumaric acid 10 ⁻⁶ M	3.10 $\pm$ 0.59	0.004	-3.160	-1.198
Cafeic acid 10 ⁻⁶ M	3.150 $\pm$ 0.20	0.0001	-2.627	-1.830

TGFβ1-R3 Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.279 $\pm$ 0.003			
Apigenin 10 ⁻⁶ M	1.618 $\pm$ 0.199	0.007	-1.835	-0.842
Luteolin 10 ⁻⁶ M	0.297 $\pm$ 0.070	0.674	-0.131	0.094
Ferulic acid 10 ⁻⁶ M	0.215 $\pm$ 0.01	0.023	0.020	0.107
Cumaric acid 10 ⁻⁶ M	0.310 $\pm$ 0.150	0.757	-0.414	0.351
Cafeic acid 10 ⁻⁶ M	0.738 $\pm$ 0.20	0.018	-0.789	-0.129

BMP2 Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.055 $\pm$ 0.032			
Apigenin 10 ⁻⁶ M	0.162 $\pm$ 0.023	0.013	-0.170	-0.041
Luteolin 10 ⁻⁶ M	0.032 $\pm$ 0.006	0.304	-0.030	0.076
Ferulic acid 10 ⁻⁶ M	0.20 $\pm$ 0.046	0.011	-0.236	-0.054
Cumaric acid 10 ⁻⁶ M	0.13 $\pm$ 0.01	0.023	-0.138	-0.017
Cafeic acid 10 ⁻⁶ M	0.127 $\pm$ 0.023	0.037	-0.137	-0.006

BMP7 Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.479 $\pm$ 0.11			
Apigenin 10 ⁻⁶ M	2.404 $\pm$ 0.35	0.001	-2.53	-1.32
Luteolin 10 ⁻⁶ M	0.807 $\pm$ 0.114	0.025	-0.589	-0.066
Ferulic acid 10 ⁻⁶ M	1.397 $\pm$ 0.221	0.003	-1.31	-0.516
Cumaric acid 10 ⁻⁶ M	0.921 $\pm$ 0.108	0.009	-0.696	-0.187
Cafeic acid 10 ⁻⁶ M	1.815 $\pm$ 0.396	0.005	-1.998	-0.674

OPG Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.0035 $\pm$ 0.0005			
Apigenin 10 ⁻⁶ M	0.0089 $\pm$ 0.001	0.002	-0.007	-0.0032
Luteolin 10 ⁻⁶ M	0.0030 $\pm$ 0.0007	0.367	-0.0009	0.0019
Ferulic acid 10 ⁻⁶ M	0.0058 $\pm$ 0.001	0.027	-0.0041	-0.0004
Cumaric acid 10 ⁻⁶ M	0.052 $\pm$ 0.022	0.019	-0.084	-0.013
Cafeic acid 10 ⁻⁶ M	0.0026 $\pm$ 0.0005	0.105	-0.0002	0.0020

RANKL Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.231 $\pm$ 0.031			
Apigenin 10 ⁻⁶ M	0.407 $\pm$ 0.013	0.001	-0.23	-0.12
Luteolin 10 ⁻⁶ M	0.928 $\pm$ 0.084	0.0001	-0.58	-0.55
Ferulic acid 10 ⁻⁶ M	0.522 $\pm$ 0.08	0.005	-0.43	-0.15
Cumaric acid 10 ⁻⁶ M	0.485 $\pm$ 0.061	0.003	-0.36	-0.14
Cafeic acid 10 ⁻⁶ M	0.817 $\pm$ 0.103	0.001	-0.76	-0.41

Runx2 Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.0657 $\pm$ 0.016			
Apigenin 10 ⁻⁶ M	0.078 $\pm$ 0.08	0.08	-0.219	0.193
Luteolin 10 ⁻⁶ M	0.132 $\pm$ 0.033	0.037	-0.127	-0.006
Ferulic acid 10 ⁻⁶ M	0.253 $\pm$ 0.036	0.001	-0.252	-0.123
Cumaric acid 10 ⁻⁶ M	0.231 $\pm$ 0.024	0.001	-0.213	-0.118
Cafeic acid 10 ⁻⁶ M	0.619 $\pm$ 0.036	0.0001	-0.616	-0.489

ALP Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.022 $\pm$ 0.002			
Apigenin 10 ⁻⁶ M	0.091 $\pm$ 0.004	0.0001	-0.068	-0.060
Luteolin 10 ⁻⁶ M	0.040 $\pm$ 0.004	0.0001	-0.0227	-0.013
Ferulic acid 10 ⁻⁶ M	0.079 $\pm$ 0.013	0.015	-0.088	-0.026
Cumaric acid 10 ⁻⁶ M	0.064 $\pm$ 0.005	0.0001	-0.051	-0.031
Cafeic acid 10 ⁻⁶ M	0.068 $\pm$ 0.005	0.0001	-0.056	-0.036

Col-I Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	1.15 $\pm$ 0.21			
Apigenin 10 ⁻⁶ M	3.76 $\pm$ 0.41	0.001	-3.35	-1.86
Luteolin 10 ⁻⁶ M	1.68 $\pm$ 0.09	0.035	-0.98	-0.071
Ferulic acid 10 ⁻⁶ M	5.15 $\pm$ 0.25	0.0001	-4.53	-3.64
Cumaric acid 10 ⁻⁶ M	4.89 $\pm$ 0.94	0.017	-5.94	-1.52
Cafeic acid 10 ⁻⁶ M	1.01 $\pm$ 0.22	0.468	-0.35	0.63

OSX Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	1.052 $\pm$ 0.056			
Apigenin 10 ⁻⁶ M	2.482 $\pm$ 0.44	0.03	-2.51	-0.33
Luteolin 10 ⁻⁶ M	4.188 $\pm$ 0.207	0.0001	-3.48	-2.79
Ferulic acid 10 ⁻⁶ M	4.979 $\pm$ 0.500	0.005	-5.14	-2.70
Cumaric acid 10 ⁻⁶ M	4.434 $\pm$ 0.27	0.0001	-3.830	-2.93
Cafeic acid 10 ⁻⁶ M	3.431 $\pm$ 0.577	0.002	-3.309	-1.45

OSC Expression	Mean $\pm$ s.d.	P valor	95% Confidence Interval	
			Lower limit	Upper limit
Control	0.023 $\pm$ 0.006			
Apigenin 10 ⁻⁶ M	0.048 $\pm$ 0.003	0.004	-0.036	-0.013
Luteolin 10 ⁻⁶ M	0.038 $\pm$ 0.002	0.023	-0.025	-0.003
Ferulic acid 10 ⁻⁶ M	0.047 $\pm$ 0.01	0.003	-0.033	-0.01
Cumaric acid 10 ⁻⁶ M	0.039 $\pm$ 0.002	0.014	-0.026	-0.005
Cafeic acid 10 ⁻⁶ M	0.053 $\pm$ 0.011	0.018	-0.050	-0.005