

**Supplementary Table 1.** Flavonoid contents in the powder or extracts of *O. japonica*

Flavonoid*	<i>O. japonica</i> powder	<i>O. japonica</i> water extract	<i>O. japonica</i> ethanol extract
Gallic acid	172.97 ± 20.15	963.96 ± 110.21	335.41 ± 96.51
Apigenin	ND <sup>†</sup>	ND	ND
Naringenin	0.14 ± 0.03	ND	0.84 ± 0.07
Luteolin	0.60 ± 0.06	0.06 ± 0.01	2.14 ± 0.25
Kaempferol	63.51 ± 7.74	18.65 ± 1.13	168.47 ± 37.90
Epicatechin	64.47 ± 1.78	405.41 ± 17.20	120.72 ± 22.50
Catechin	2.41 ± 0.47	1.38 ± 0.34	4.44 ± 0.03
Quercetin	39.73 ± 1.91	15.14 ± 0.51	114.41 ± 20.89
Chlorogenic acid	0.12 ± 0.00	0.12 ± 0.08	0.15 ± 0.07
Naringin	0.32 ± 0.13	0.39 ± 0.07	0.40 ± 0.05
Rutin	8.32 ± 0.31	16.76 ± 1.27	28.11 ± 2.87
Hesperidin	0.44 ± 0.00	0.44 ± 0.09	0.61 ± 0.03
Protocatechuic acid	13.15 ± 0.61	38.02 ± 4.91	34.77 ± 8.15
Caffeic acid	21.98 ± 1.51	15.32 ± 5.29	25.86 ± 12.93
Methyl caffeate	0.05 ± 0.00	0.03 ± 0.00	0.02 ± 0.00
Hesperetin	ND	ND	0.02 ± 0.00
ECG	477.77 ± 5.10	71.71 ± 3.66	635.14 ± 133.15
Kaempferol-3-glucoside	148.65 ± 9.46	16.40 ± 0.63	330.63 ± 89.50
EGCG	757.66 ± 164.99	16.04 ± 0.62	1441.44 ± 561.14
Quercetin-3-glucoside	520.72 ± 61.47	46.76 ± 0.38	1162.16 ± 346.40

\*, Flavonoid contents are presented in units of µg/g; †, ND, not detectable

# Supplementary Figure 1

