

**Supplementary Table 1.** Growth-associated variables and relative organ weights in 11 weeks old animals.

BODY	Male				Female			
	REF	FP	REF OVA	FP OVA	REF	FP	REF OVA	FP OVA
<b>Final body weight (g)</b>	367.5 ± 8.53	374.5 ± 18.52	365.2 ± 7.82	388.0 ± 16.15	263.7 ± 5.95	254.7 ± 7.92	258.3 ± 5.49	245.3 ± 12.02
<b>BMI</b>	0.74 ± 0.02	0.78 ± 0.02	0.76 ± 0.02	0.75 ± 0.02	0.62 ± 0.01	0.60 ± 0.01	0.60 ± 0.01	0.60 ± 0.01
<b>Lee index</b>	326.6 ± 3.89	331.5 ± 8.39	327.0 ± 3.44	321.6 ± 4.77	312.3 ± 4.73	304.6 ± 3.80	307.7 ± 2.43	309.4 ± 2.53
<b>ORGANS</b>								
<b>Thymus (%)</b>	0.19 ± 0.01	0.17 ± 0.01	0.21 ± 0.01	0.20 ± 0.01#	0.27 ± 0.01	0.23 ± 0.01*	0.31 ± 0.02	0.24 ± 0.01*
<b>Spleen (%)</b>	0.26 ± 0.01	0.25 ± 0.00	0.26 ± 0.01	0.29 ± 0.02#	0.29 ± 0.02	0.29 ± 0.01	0.35 ± 0.03	0.32 ± 0.01
<b>Submaxillary salivary gland (%)</b>	0.16 ± 0.01	0.16 ± 0.01	0.16 ± 0.01	0.15 ± 0.01	0.19 ± 0.01	0.18 ± 0.01	0.17 ± 0.00	0.19 ± 0.01*
<b>Stomach (%)</b>	0.50 ± 0.02	0.47 ± 0.01	0.51 ± 0.02	0.49 ± 0.01	0.57 ± 0.04	0.52 ± 0.03	0.59 ± 0.04	0.61 ± 0.04
<b>Small Intestine (%)</b>	2.53 ± 0.10	2.53 ± 0.03	2.54 ± 0.09	2.43 ± 0.06	3.05 ± 0.06	3.42 ± 0.24	3.05 ± 0.32	2.99 ± 0.16
<b>Caecum (%)</b>	0.95 ± 0.10	0.85 ± 0.04	0.97 ± 0.08	0.95 ± 0.05	1.00 ± 0.07	0.85 ± 0.04	0.78 ± 0.11	0.93 ± 0.05
<b>Liver (%)</b>	3.82 ± 0.12	3.99 ± 0.11	3.77 ± 0.10	4.02 ± 0.04*	3.76 ± 0.09	3.87 ± 0.31	3.79 ± 0.20	3.94 ± 0.14
<b>Kidney (%)</b>	0.35 ± 0.02	0.34 ± 0.01	0.37 ± 0.01	0.33 ± 0.01*	0.40 ± 0.01	0.38 ± 0.02	0.44 ± 0.04	0.45 ± 0.04
<b>Brain (%)</b>	0.47 ± 0.01	0.44 ± 0.01	0.48 ± 0.01	0.48 ± 0.01	0.64 ± 0.01	0.69 ± 0.03	0.68 ± 0.01#	0.70 ± 0.04
<b>Heart (%)</b>	0.30 ± 0.01	0.31 ± 0.01	0.31 ± 0.01	0.30 ± 0.01	0.37 ± 0.03	0.34 ± 0.01	0.33 ± 0.01	0.37 ± 0.01

Data corresponding to relative organ weights are expressed as a percentage of body weight expressed as mean ± SEM (n = 3-6). REF groups were those born from mothers fed reference diet; FP groups were those born from mothers fed fiber- and polyphenol-enriched diet; OVA groups were those that were immunized at week 7 of life. Statistical differences: \* p < 0.05 vs. reference diet in the same immunized condition; # p < 0.05 vs. not immunized in the same diet condition.