

Supplemental Figure 1. Body and prostate gland weights of C57BL/6J and TRAMP mice: **A.** Body weight change of C57BL/6J. **B.** Prostate weight of C57BL/6J. **C.** Body weight change of TRAMP. **D.** Prostate weight of TRAMP. There were no noticeable changes in weights of body and prostate after treatment of all the three doses of Polyphenon E in C57BL/6J and TRAMP mice. As expected, the body and prostate weights of mice in all groups increased with age. There is no significant difference between Polyphenon E treatment and control groups. However, significant difference of prostate weight was observed between untreated C57BL/6J and TRAMP mouse groups at 32 weeks old ($P<0.001$).

Supplemental Figure 2. Mean distribution-adjusted lesion grade of different lobes (anterior, dorsal, lateral and ventral) of the prostate in control TRAMP mice and mice treated with low, medium and high doses of Polyphenon E.

Table 1. Hematology and serum biochemistry results for C57BL/6J male mice treated with Polyphenon E

Variables	Unit	Control (n=3)	Low (n=3)	Medium (n=3)	High (n=3)	<i>P</i> value
WBC	10 ⁹ /L	5.83±0.88	9.8±1.85	6.97±4.22	4.67±1.69	0.27
Lymphocyte	%	81.4±0.68	82.9±1.06	77.5±4.63	77.1±3.09	0.19
Monocyte	%	6.06±0.12	5.03±0.45	5.43±0.34	5.97±1.02	0.32
Granulocyte	%	12.5±0.57	12.1±0.74	17.1±4.74	16.9±2.08	0.17
Hematocrit	%	36.96±1.22	38.43±0.46	37.93±0.70	38.6±0.21	0.21
Hemoglobin	g/dL	12.66±0.31	13.27±0.21	13.1±0.16	13.4±0.08	0.04
Platelet	10 ⁹ /L	656.33±33.2	567.33±33.87	473.33±117.03	474.67±156.2	0.28
BUN	mg/dL	26.1±1.80	27.1±2.40	24.23±0.69	24.13±2.17	0.37
Creatinine	mg/dL	<0.2	<0.2	<0.2	<0.2	
Phosphorus	mg/dL	7.2±0.36	7.33±0.58	8.03±1.35	7.73±0.61	0.73
Calcium	mg/dL	10.3±0.0	10.17±0.05	10.17±0.12	10.27±0.17	0.33
Total protein	g/dL	5.6±0.14	5.53±0.19	5.43±0.09	5.5±0.08	0.67
Albumin	g/dL	2.97±0.05	2.97±0.17	2.87±0.12	2.86±0.09	0.71
Globulin	g/dL	2.63±0.09	2.57±0.05	2.57±0.05	2.63±0.05	0.55
Glucose	mg/dL	194.33±9.03	185.33±7.13	188.67±4.50	191.67±15.86	0.83
ALT	IU/L	16.67±0.47	19.67±1.70	37.0±21.92	20.0±0.82	0.22
ALP	IU/L	64.33±2.87	63.67±5.31	60.33±1.89	68.33±2.62	0.31
GGT	IU/L	<10	<10	<10	<10	
Total bilirubin	mg/dL	0.1±0.0	0.4±0.14	0.17±0.09	0.23±0.09	0.07

Table 2. Hematology and serum biochemistry results for TRAMP male mice treated with Polyphenon E

Variables	Unit	Control (n=3)	Low (n=5)	Medium (n=5)	High (n=6)	<i>P</i> value
WBC	10 ⁹ /L	7.83±1.21	7.48±2.66	7.80±2.22	8.36±3.48	0.97
Lymphocyte	%	77.4±3.80	77.2±3.86	77.6±4.93	71.4±5.53	0.20
Monocyte	%	6.60±1.06	6.04±1.01	5.86±0.37	6.73±0.67	0.37
Granulocyte	%	16.03±2.74	16.72±3.04	16.5±4.73	21.83±5.05	0.20
Hematocrit	%	38.87±1.55	38.4±0.95	36.7±1.03	38.8±0.88	0.05
Hemoglobin	g/dL	13.1±0.33	13.08±0.24	12.5±0.34	13.1±0.30	0.03
Platelet	10 ⁹ /L	713.3±14.0	663.0±97.2	523.8±87.9	477.7±114.6	0.02
BUN	mg/dL	18.1±0.19	20.3±4.2	17.28±2.63	19.9±2.18	0.42
Creatinine	mg/dL	<0.2	<0.2	<0.2	<0.2	
Phosphorus	mg/dL	6.9±0.41	6.54±0.80	7.20±0.65	7.77±0.68	0.09
Calcium	mg/dL	10.6±0.19	9.94±0.37	10.18±0.19	10.45±0.05	0.01
Total protein	g/dL	5.8±0.12	5.46±0.22	5.40±0.09	5.61±0.18	0.06
Albumin	g/dL	3.03±0.09	2.84±0.12	2.68±0.04	2.90±0.10	0.002
Globulin	g/dL	2.73±0.21	2.62±0.12	2.72±0.07	2.72±0.18	0.71
Glucose	mg/dL	220.7±5.79	215.6±21.3	229.6±21.18	211.0±19.63	0.55
ALT	IU/L	32.70±4.19	29.6±19.4	33.6±15.49	22.5±4.03	0.61
ALP	IU/L	66.7±2.05	71.8±7.14	57.4±8.48	67.33±6.39	0.06
GGT	IU/L	<10	<10	<10	<10	
Total bilirubin	mg/dL	0.10±0.0	0.14±0.08	0.18±0.10	0.12±0.04	0.47

Table 3. Results from imaging analysis for TRAMP male mice treated with Polyphenon E

Variables	Unit	Control (n=7)	Low (n=6)	Medium (n=6)	High (n=7)	<i>P</i> value ¹	All treated (n=19)	<i>P</i> value ²
# tumor	ea	1.57±0.98	0.83±0.41	1.0±0.0	0.86±0.38	0.09	0.89±0.32	0.01
Unidimension		9.67±4.91	6.02±3.41	6.60±1.33	6.53±3.01	0.23	6.39±2.61	0.04
Bidimension		30.84±16.6	21.7±11.6	25.7±8.06	26.3±12.4	0.65	24.7±10.5	0.27
Volume	mm ³	107.5±60.1	90.0±76.9	92.5±53.6	80.2±36.3	0.85	87.2±54.0	0.42

¹*P* values were estimated from ANOVA

²*P* values were estimated from t test comparing control vs. treated