

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.

