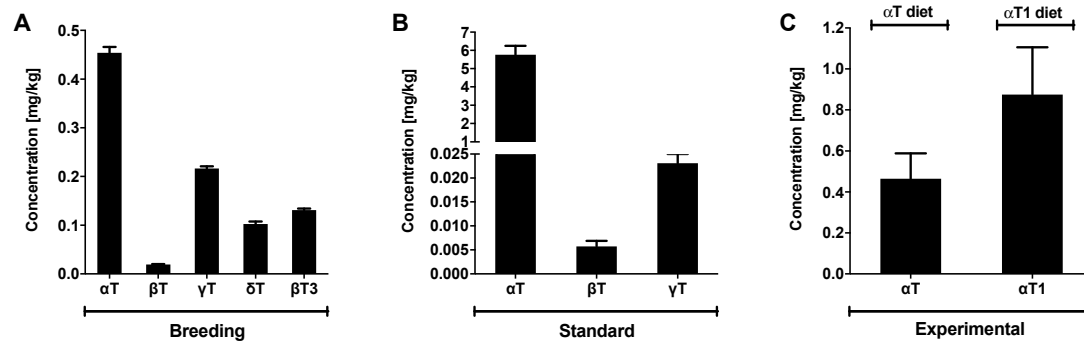
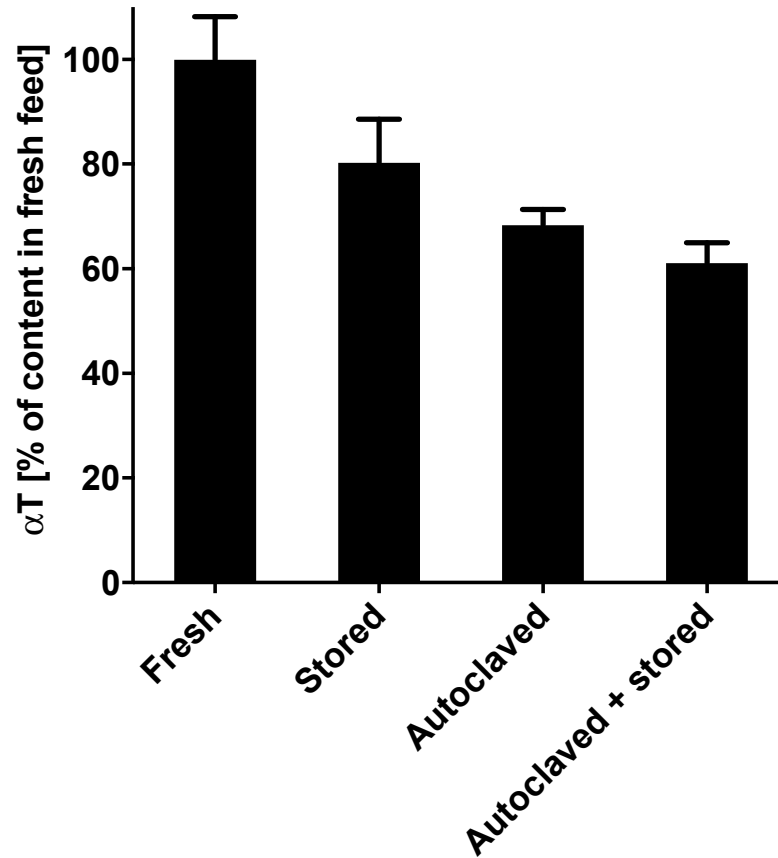
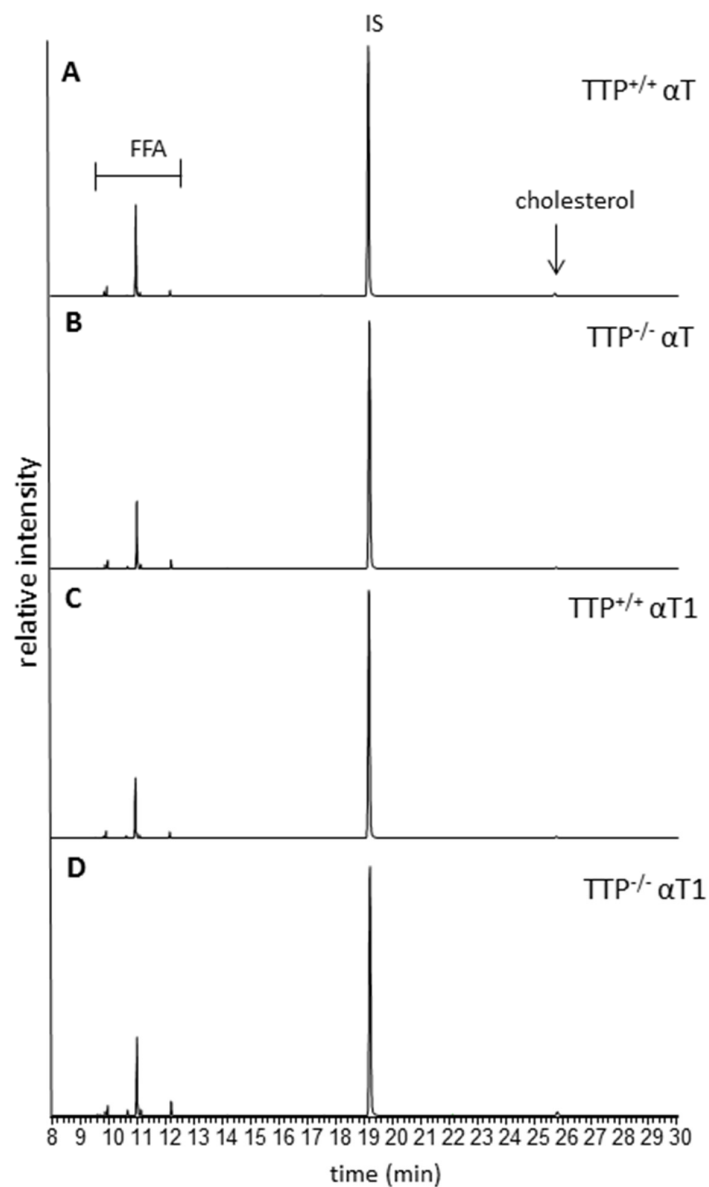




Supplementary Figure S1. Mean concentrations (error bars represent standard error of the mean; $n = 3$) of vitamin E in the diets used for breeding (A), standard (B), and experimental (C) foods fed the TTP^{+/+} and TTP^{-/-} mice during their lives. The standard food included all forms of vitamin E, and only two experimental foods were used: with α -tocopherol (α T) or with α -11'-tocomonoenol (α T1). The breeding food was produced by ssniff Spezialdiaeten GmbH (Soest, Germany) and the standard and experimental diets were produced by Altromin Spezialfutter GmbH & Co. (KG, Lage, Germany).



Supplementary Figure S2. Mean total α -tocopherol (α T) content (error bars represent standard error of the mean; $n = 3$) of stored (1 week at room temperature with 12 h light/dark cycle), autoclaved (20 min at 121 °C), and autoclaved and stored rodent feed relative to fresh feed (not stored, not autoclaved, directly extracted, and analyzed). The C1000 rodent feed used was obtained from Altromin Spezialfutter GmbH & Co. (KG, Lage, Germany).



Supplementary Figure S3. Representative GC/MS chromatograms (full scan mode) of the analyzed liver extracts of TTP^{+/+} and TTP^{-/-} mice fed a standard diet with either α -tocopherol (α T; A and B, respectively) or α -11'-tocomonoenol (α T₁; C and D, respectively) for 2 weeks. Peaks from 10–12 minutes belong to free fatty acids (FFAs), the peak at 19 minutes is the internal standard (IS) 5- α -cholestane, and the slight peak at 26 minutes corresponds to cholesterol. α T and α T₁ were reported to appear at 24 and 25 minutes, respectively, and their absences were noted in all experimental groups.