

Supplementary Material

Effects of local testicular heat treatment on Leydig cell hyperplasia and testosterone biosynthesis in rat testes

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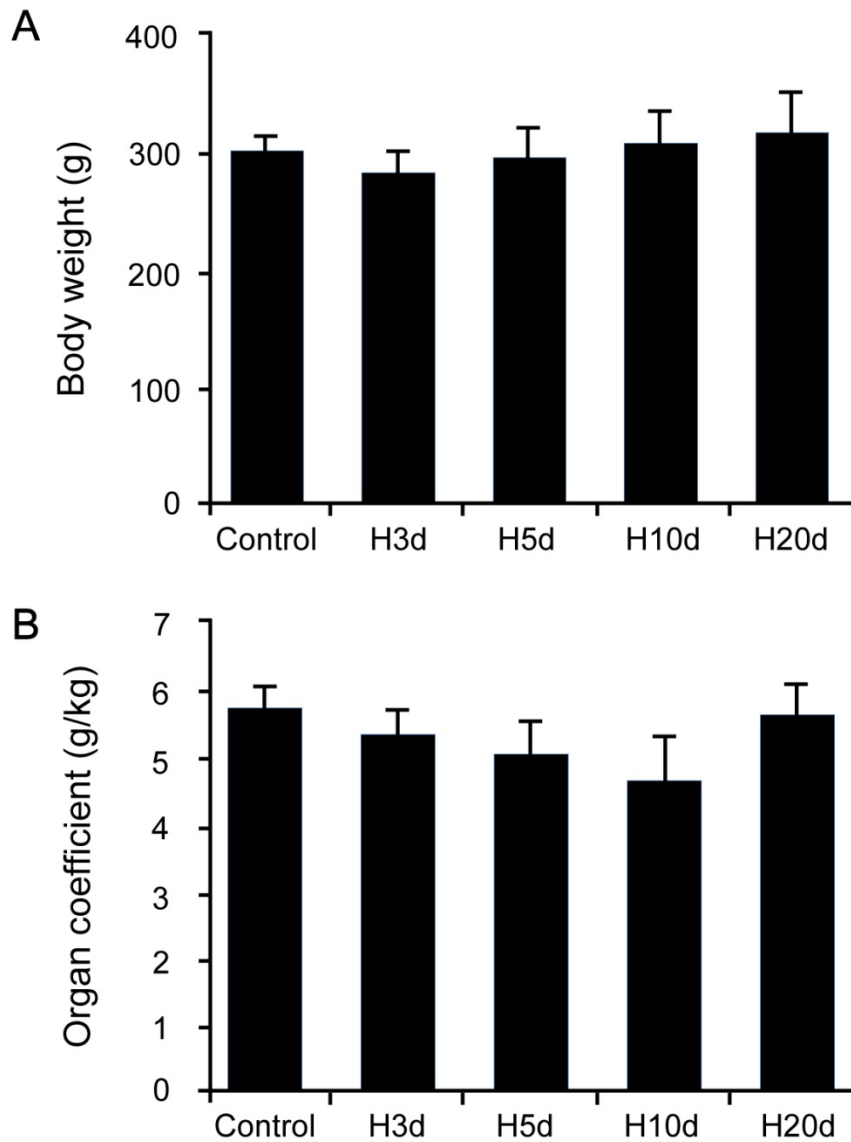


Fig. S1. Effects of testicular heat treatment on body weight and organ coefficients. Effects of testicular heat treatment on the body weight of rats that had recovered from treatment for 3, 5, 10 or 20 days (**A**). Effects of testicular heat treatment on the coefficients of the testes in each group (**B**). The organ coefficient of the testes was determined as follows: organ coefficient = organ weight/body weight \times 1000. Values are the mean \pm s.e.m. of eight rats (each group).

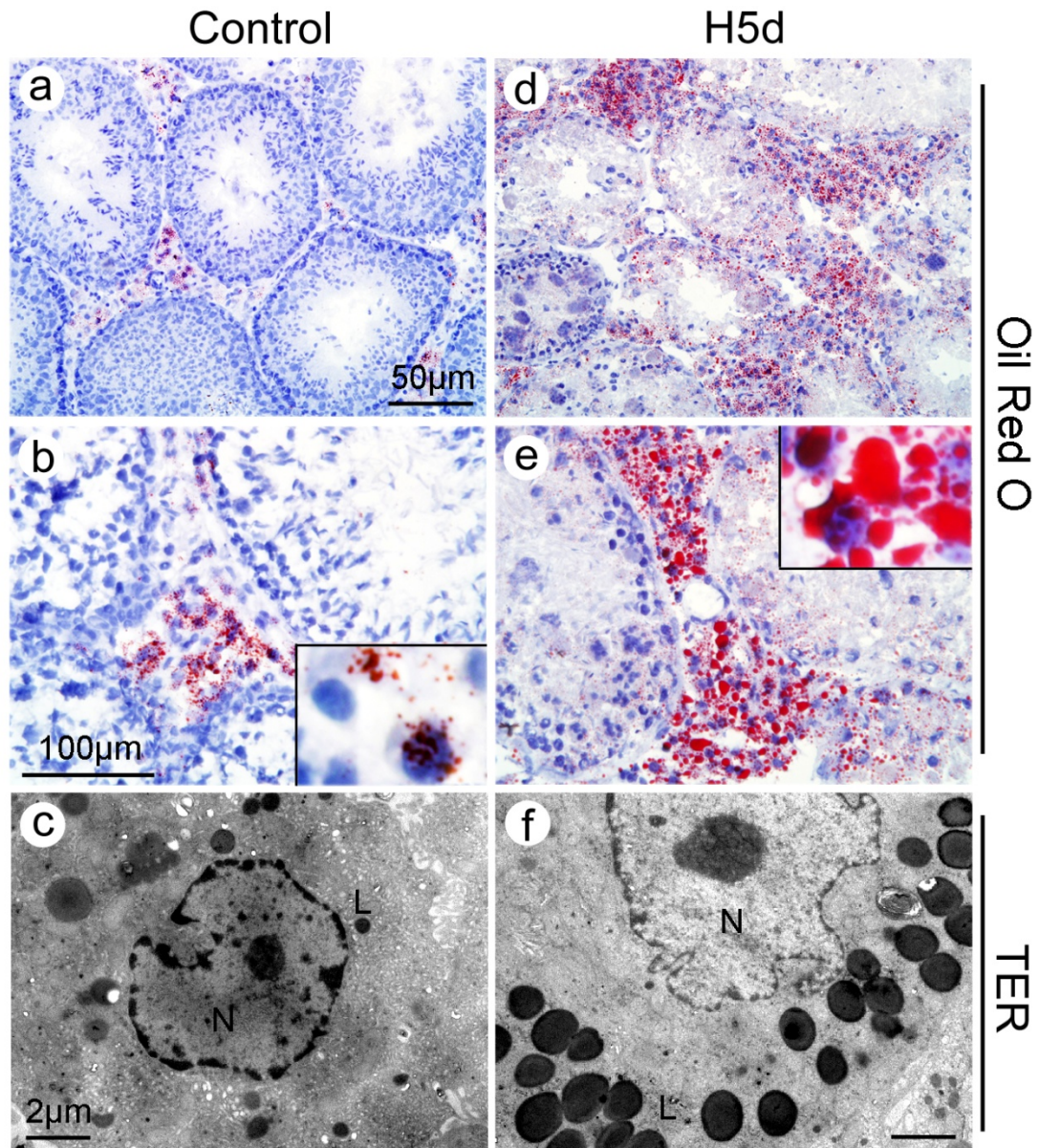


Fig. S2. Leydig cells in testicular heat-treated males contained large numbers of clustered lipid droplets. Extensive large lipid droplets were found in Leydig cells of testicular heat-treated males (**d**), whereas small lipid droplets were observed in Leydig cells of control males (**a**). **b** and **e** are the corresponding magnified views of **a** and **d**. Scale bar in **a** and **d**, 50 μm . Scale bar in **b** and **e**, 100 μm . TEM of Leydig cells in a control testis (**c**) vs a local heat-treated testis (**f**). N, nucleus; L, lipid droplet; scale bar in **c** and **f**, 2 μm .