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**Last modified:** 12/9/2009  
 See note for more details

### Prostaglandin Synthesis and Regulation

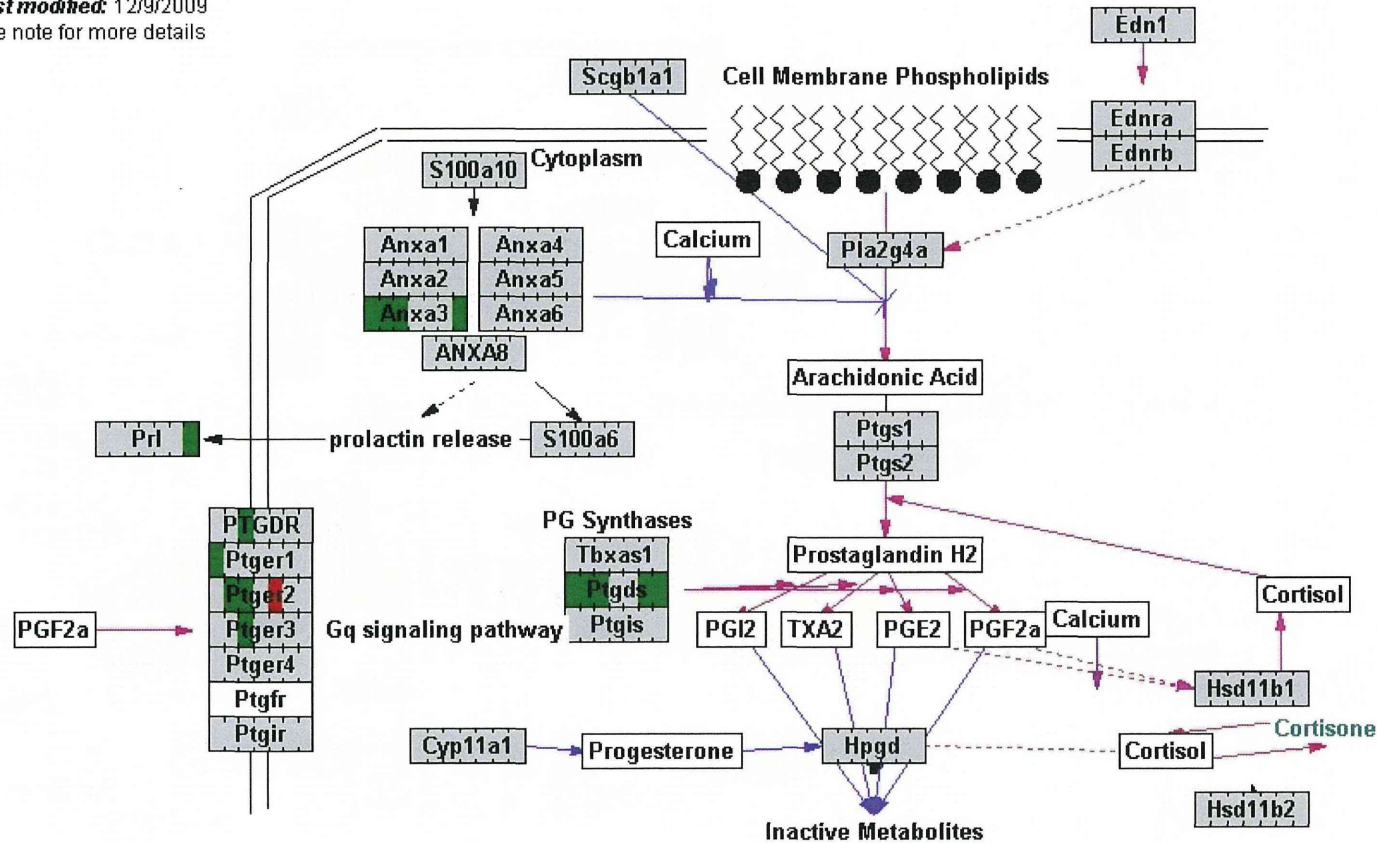


Figure 9 Prostaglandin synthesis and regulation in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

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### Apoptosis Mechanisms

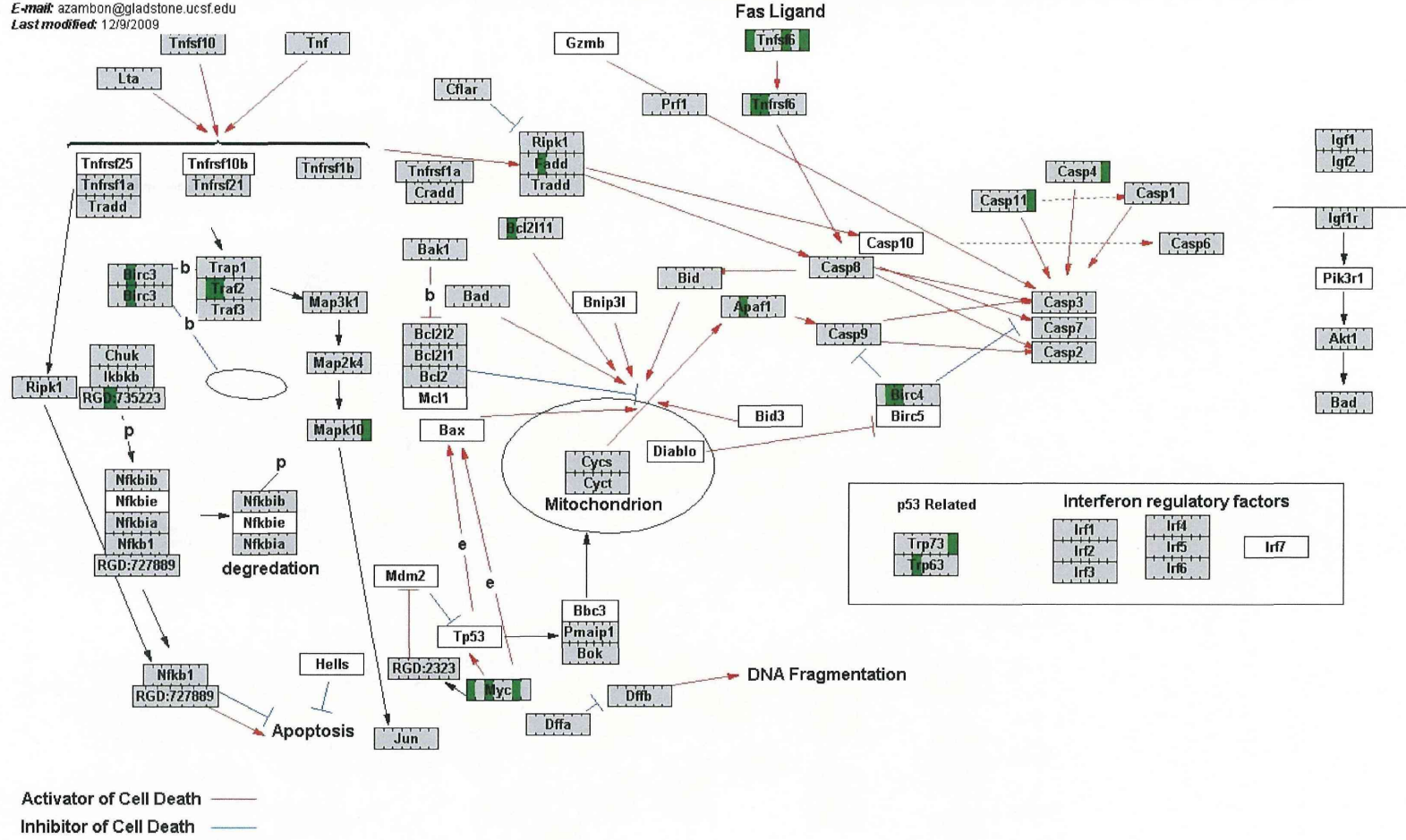


Figure 10 Apoptosis mechanisms in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

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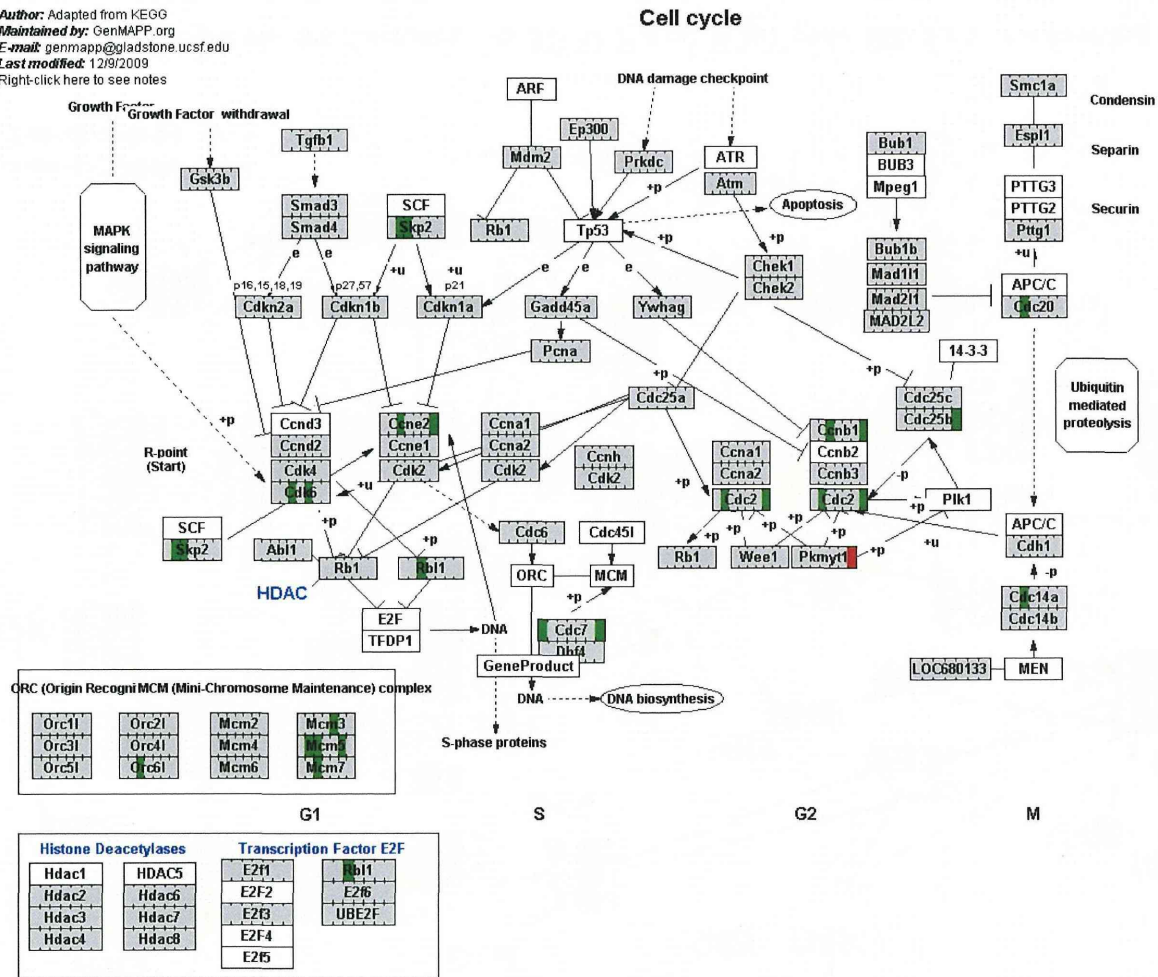


Figure 11 Cell cycle in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

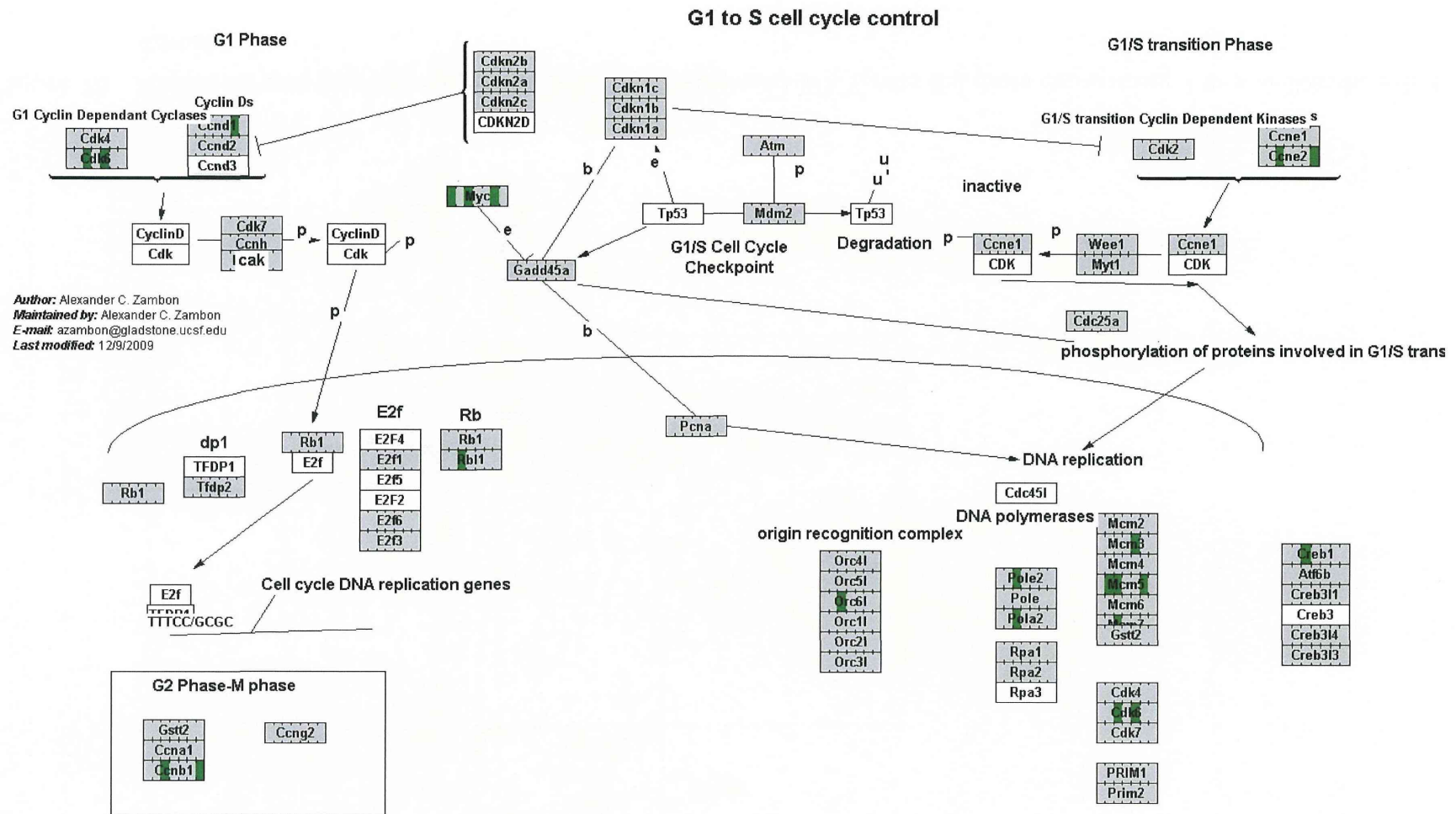


Figure 12 G1 to S cell cycle control in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

### Androgen Receptor Signaling Pathway

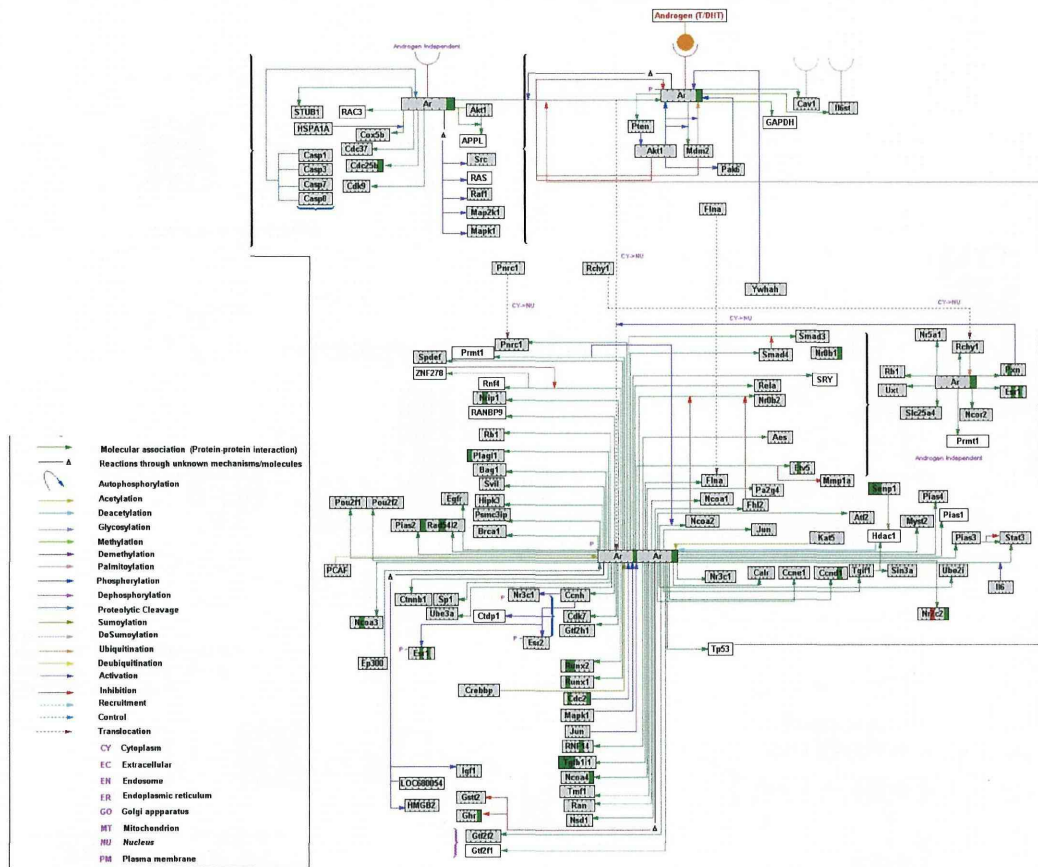
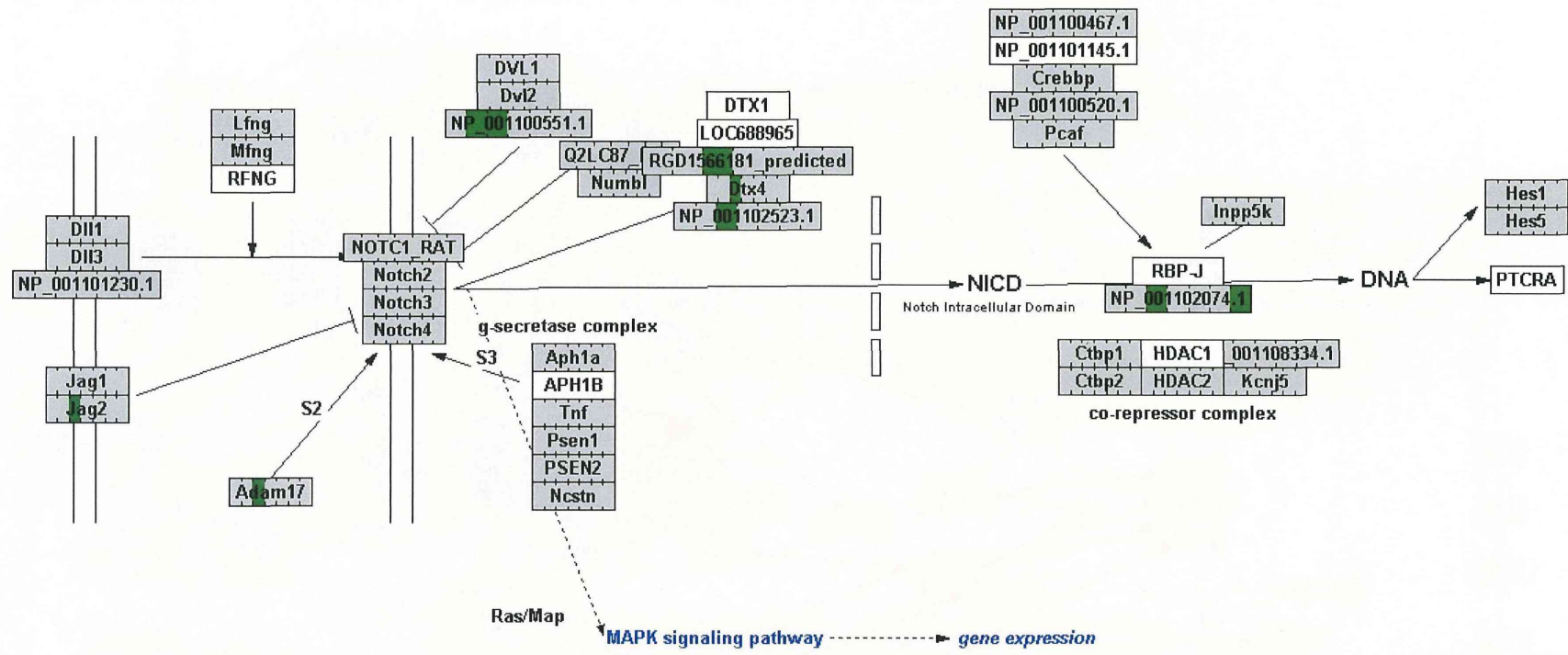


Figure 13 Androgen receptor signaling pathway in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks



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### Notch Signaling Pathway



- 43 -

Figure 14 Notch signaling pathway in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

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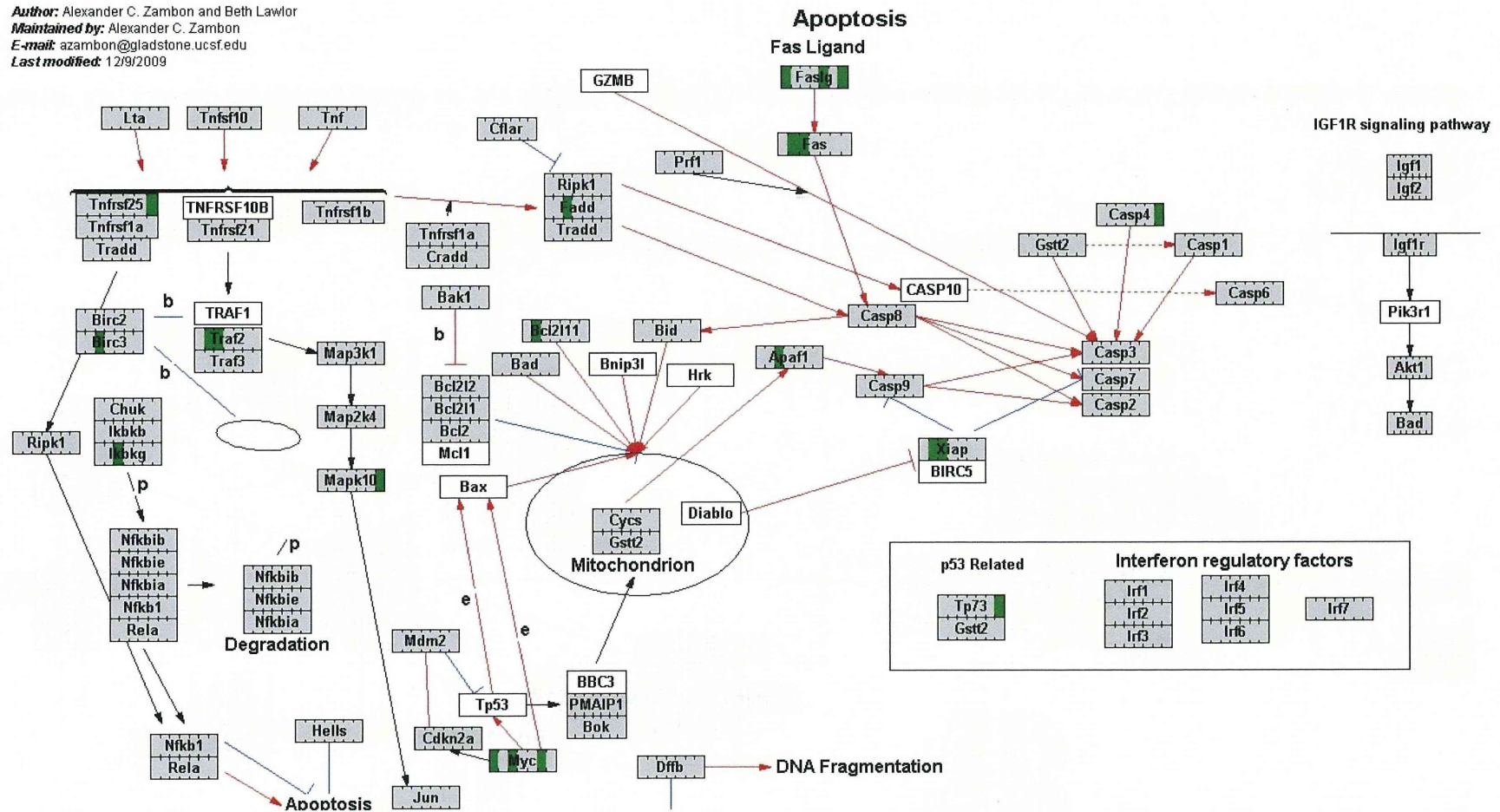


Figure 15 Apoptosis in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

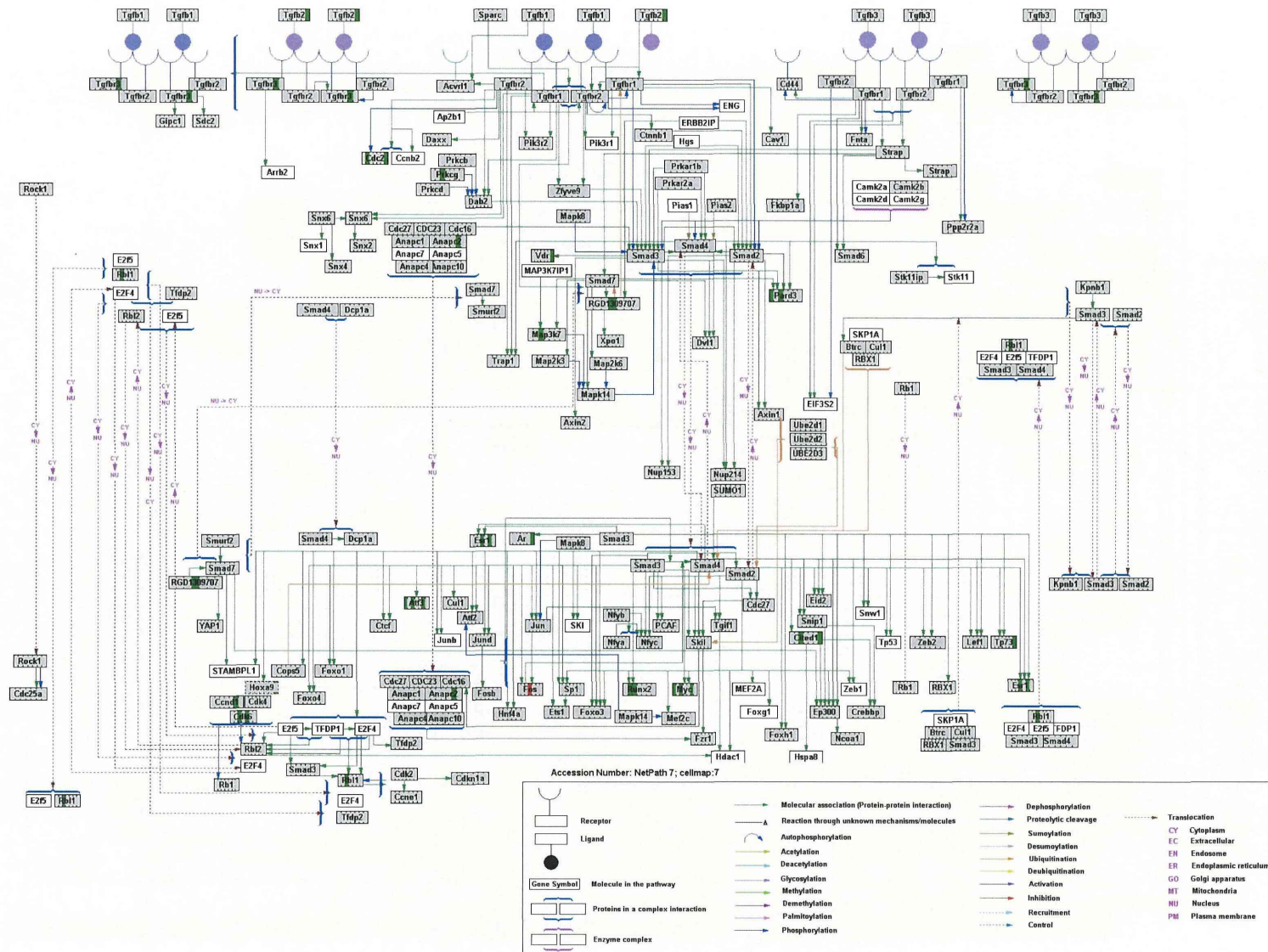
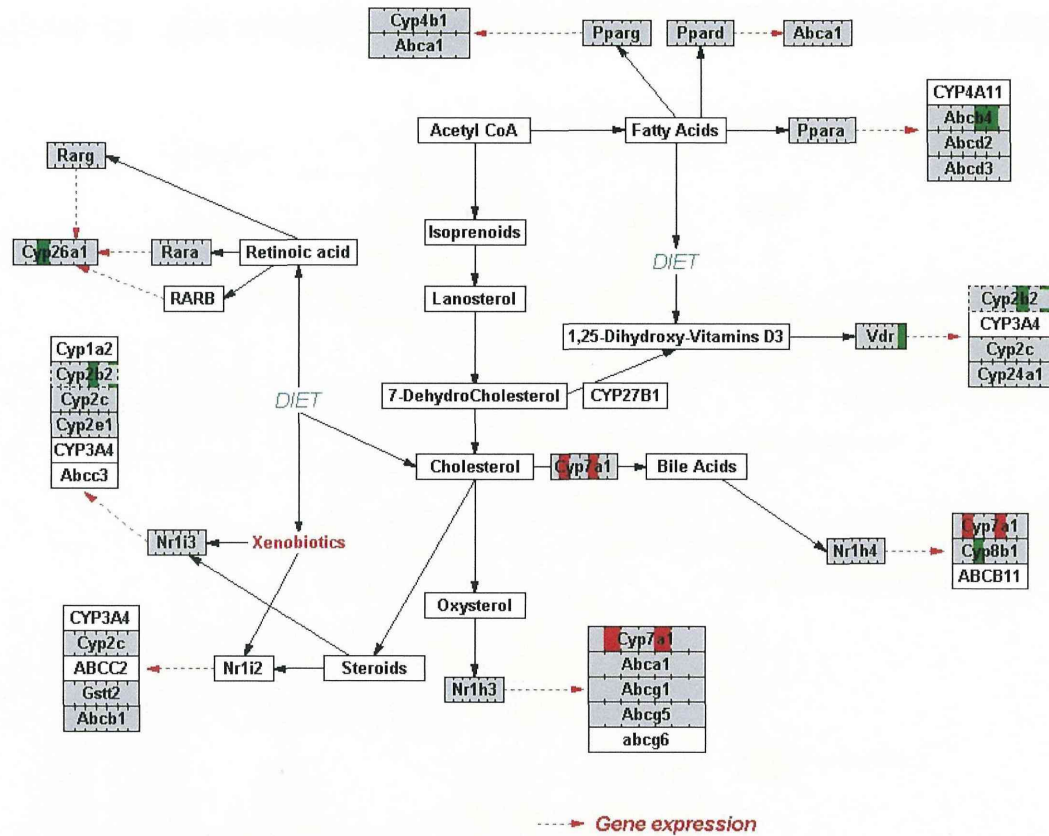


Figure 16 TGF-beta receptor signaling pathway in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks





### Nuclear receptors in lipid metabolism and toxicity



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 Converted to human by GenMAPP.org

Figure 18 Nuclear receptors in lipid metabolism and toxicity in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

### Wnt Signaling Pathway and Pluripotency

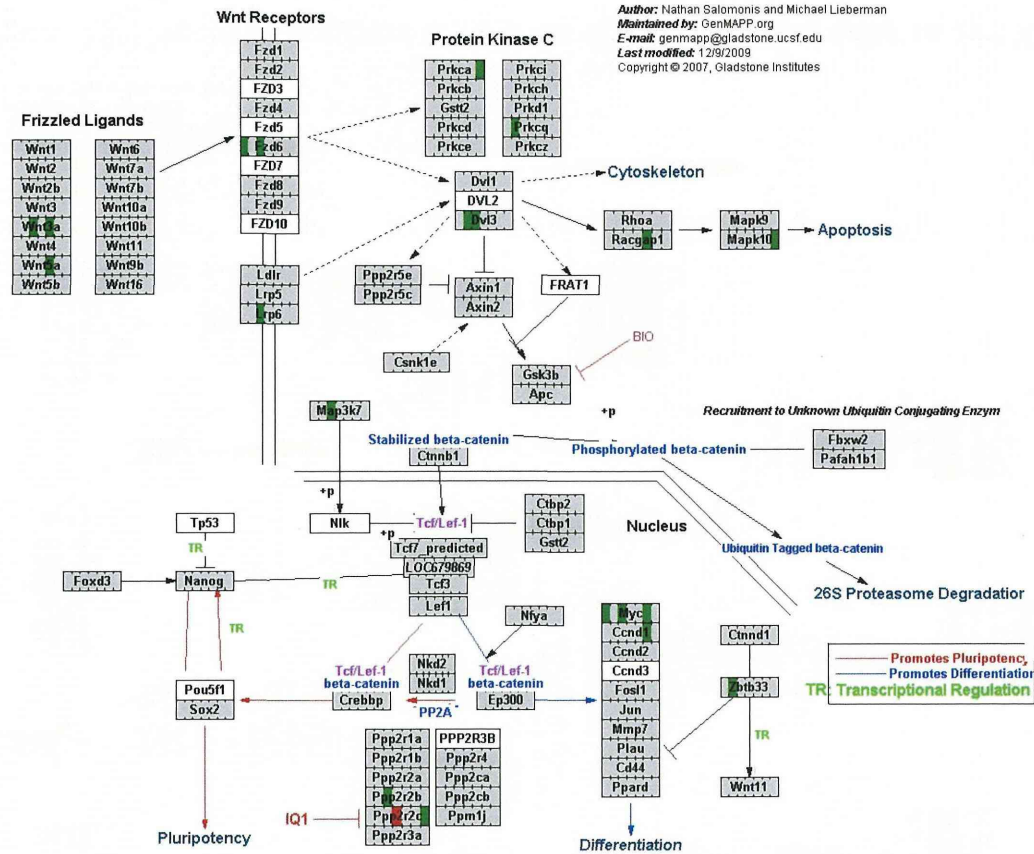


Figure 19 Wnt signaling pathway and pluripotency in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

Author: Thomas Kelder (Adapted from science slides)  
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## Biosynthesis of Aldosterone and Cortisol

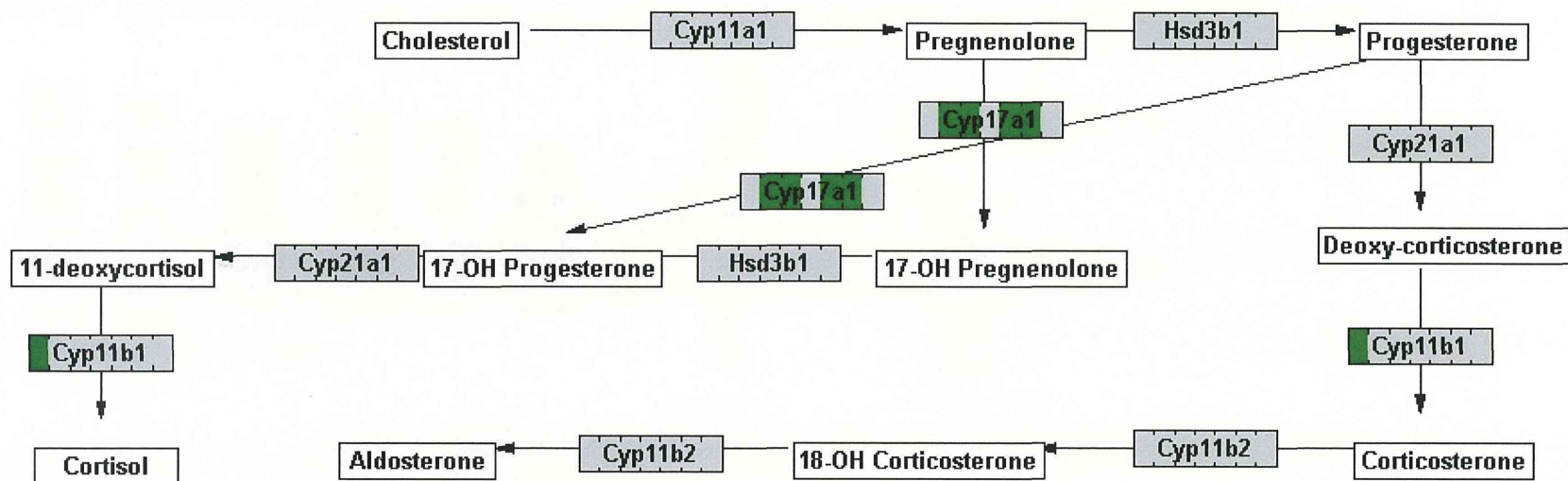


Figure 20 Biosynthesis of aldosterone and cortisol in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks



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### Adipogenesis

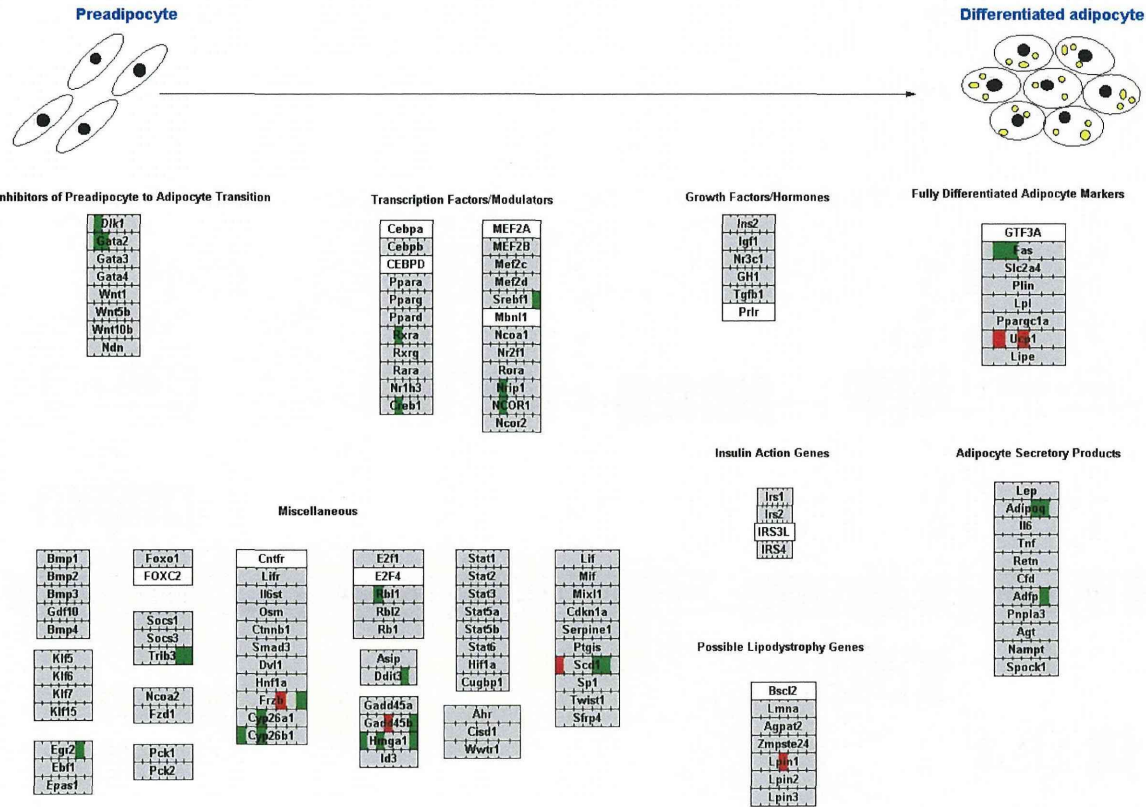


Figure 21 Adipogenesis in SHRSP and WKY rats fed diets containing 7 w/w% Tokuh oils for 4 weeks

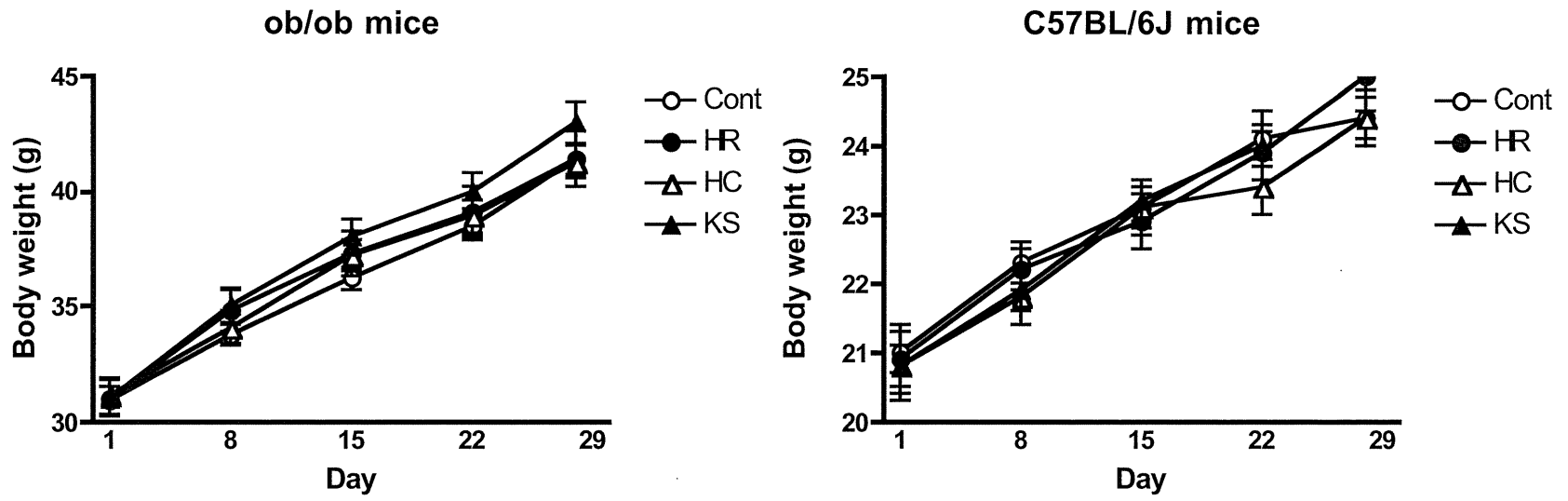


Figure 22 Body weight changes in ob/ob and C57BL/6J mice fed diets containing 7 w/w% Tokuho oils for 4 weeks

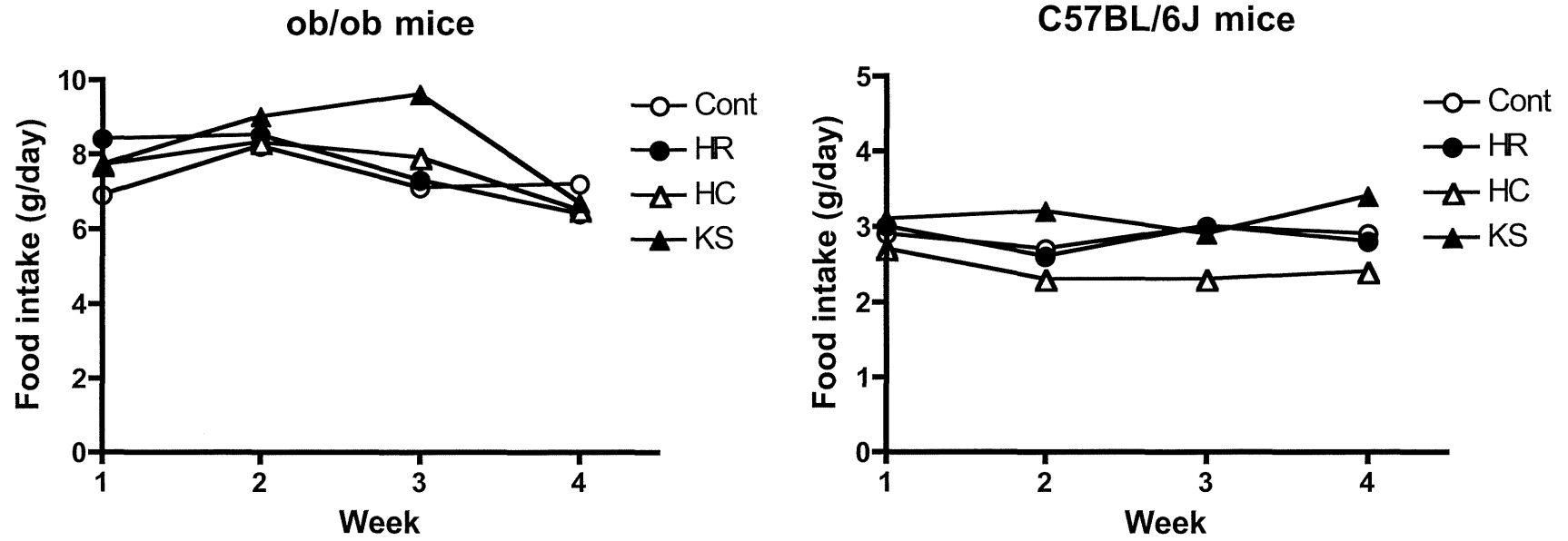


Figure 23 Food intake in ob/ob and C57BL/6J mice fed diets containing 7 w/w% Tokuho oils for 4 weeks

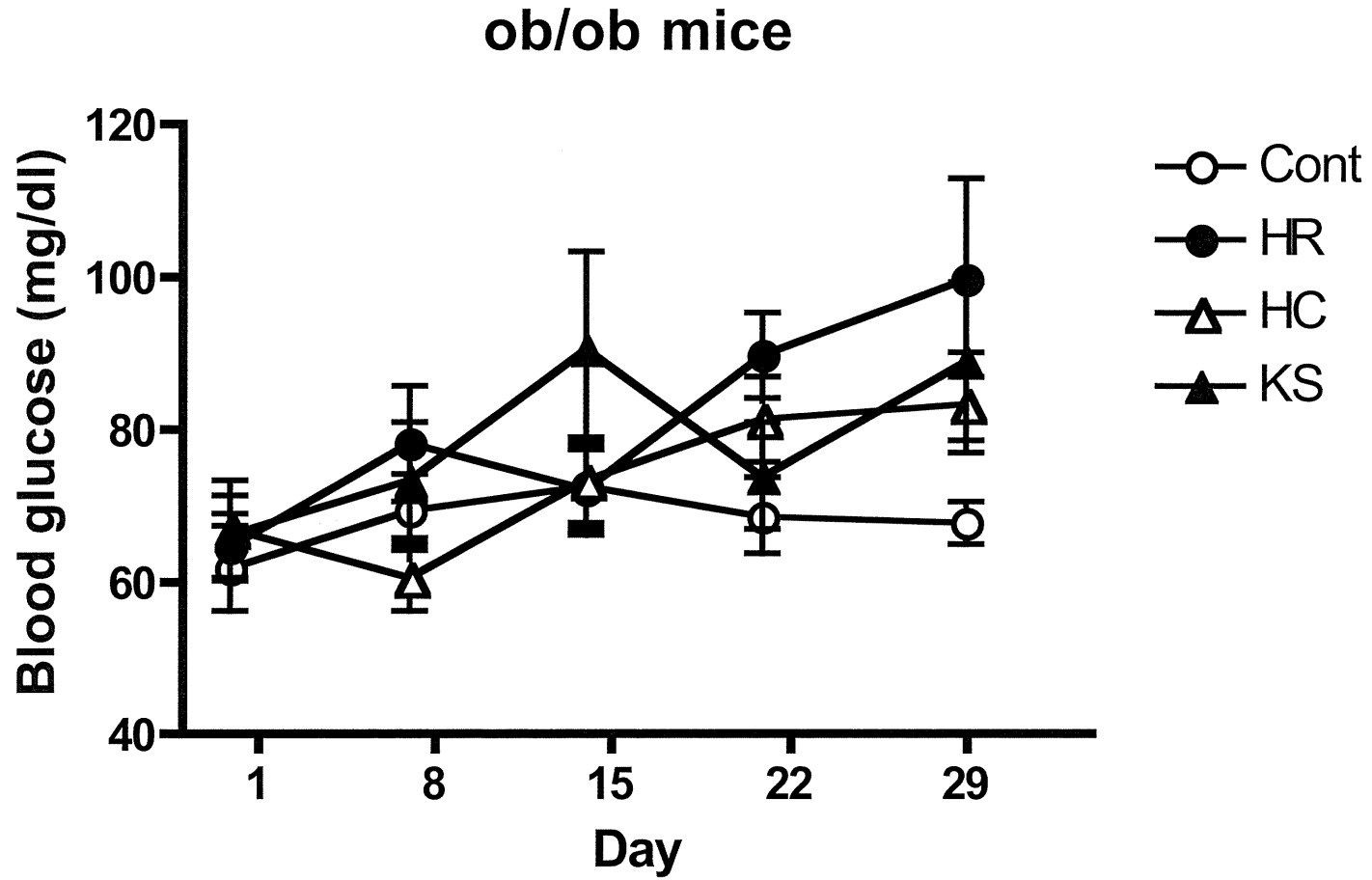


Figure 24 Blood glucose levels in ob/ob mice after 18-hr fasting fed diets containing 7 w/w% Tokuho oils for 4 weeks



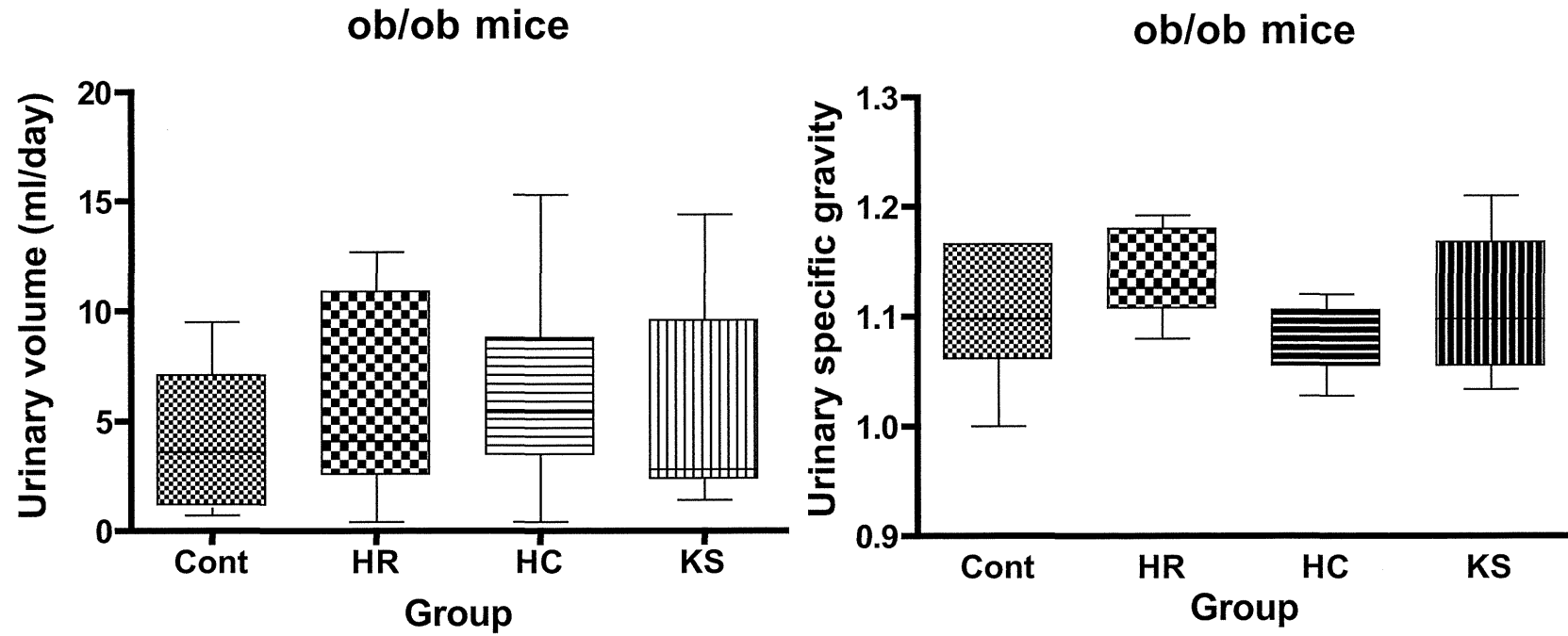


Figure 25 Urinary volume and specific gravity in *ob/ob* mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuhō oils for 4 weeks.

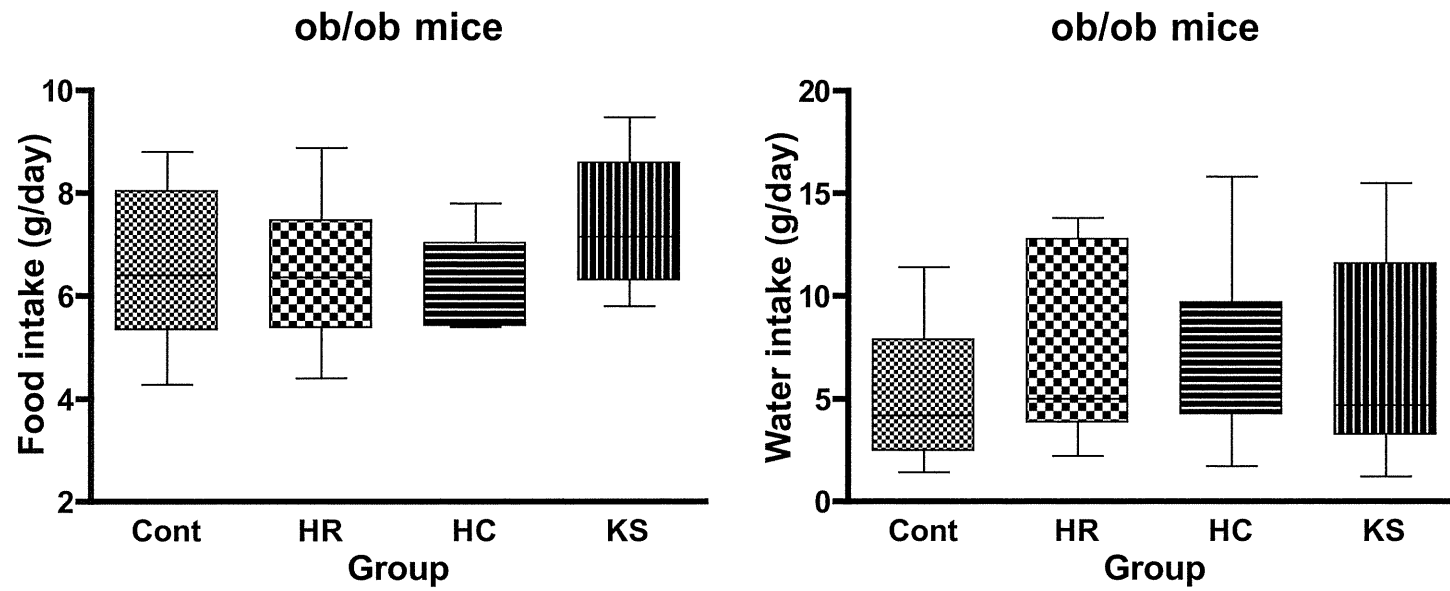


Figure 26 Food and water intake in *ob/ob* mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuho oils for 4 weeks.

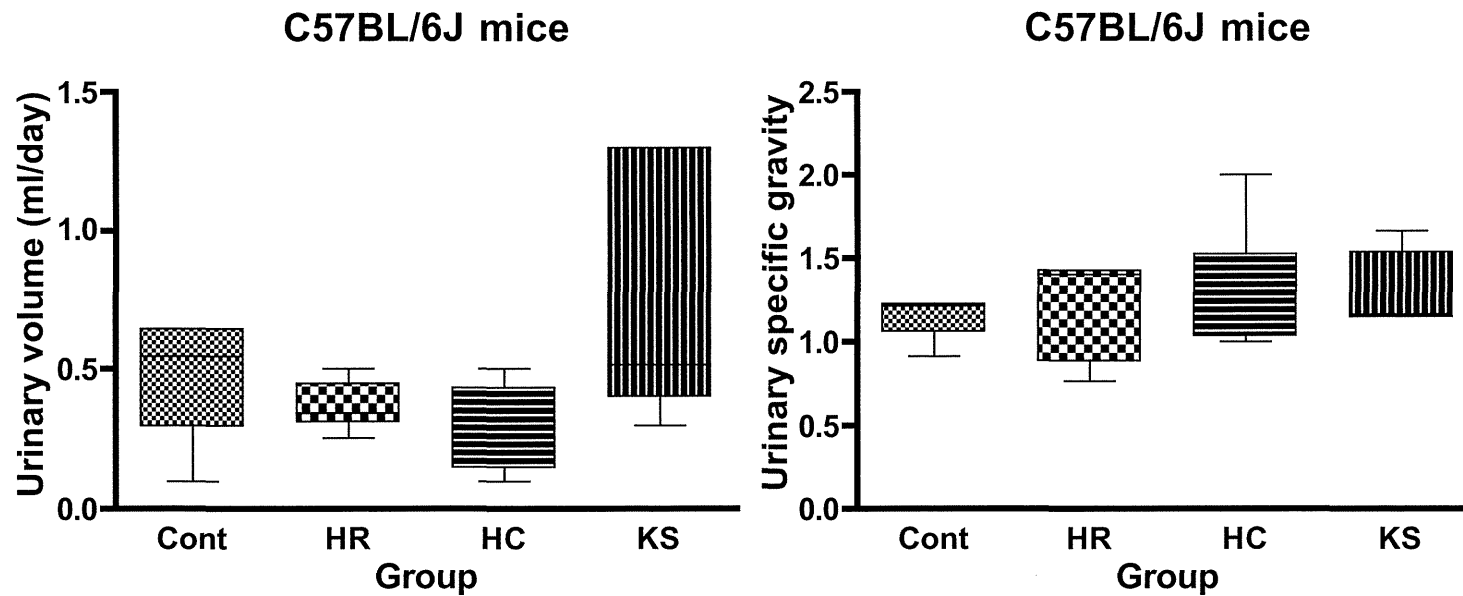


Figure 27 Urinary volume and specific gravity in C57BL/6J mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuho oils for 4 weeks.

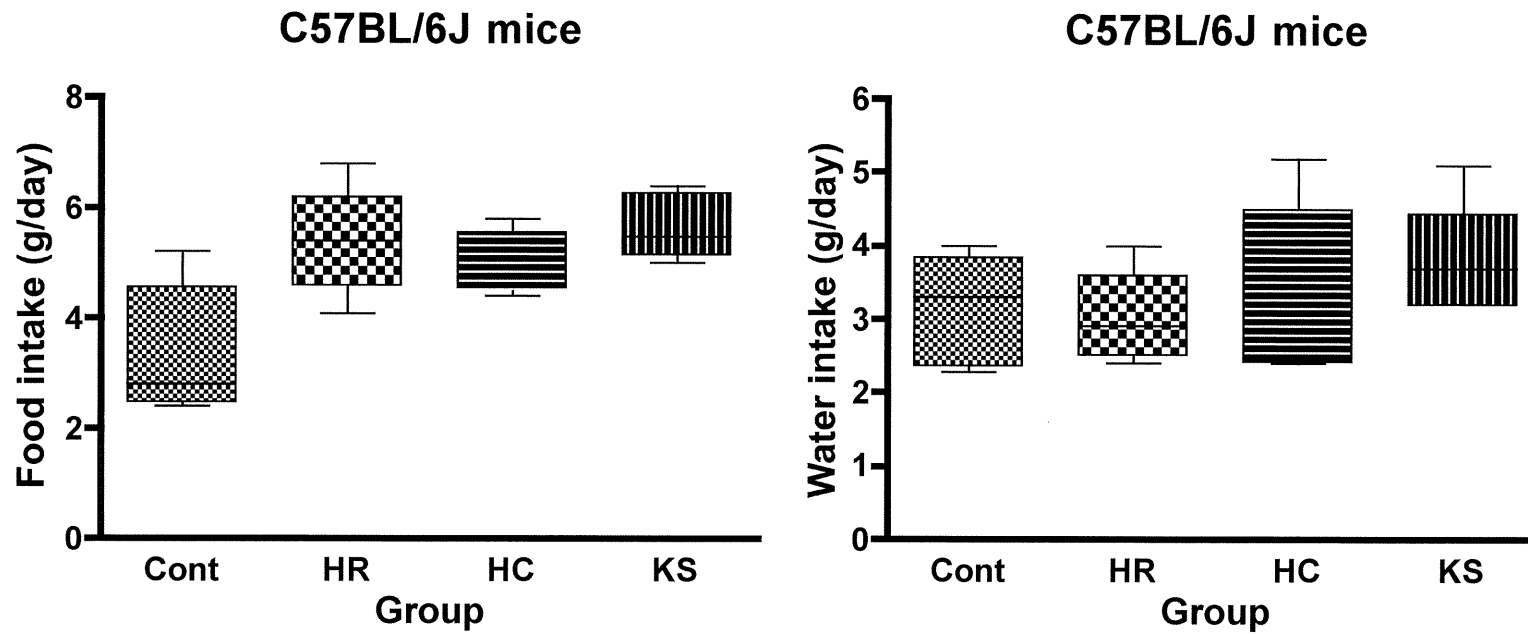


Figure 28 Food and water intake in C57BL/6J mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuhio oils for 4 weeks.