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**Apoptosis Mechanisms**

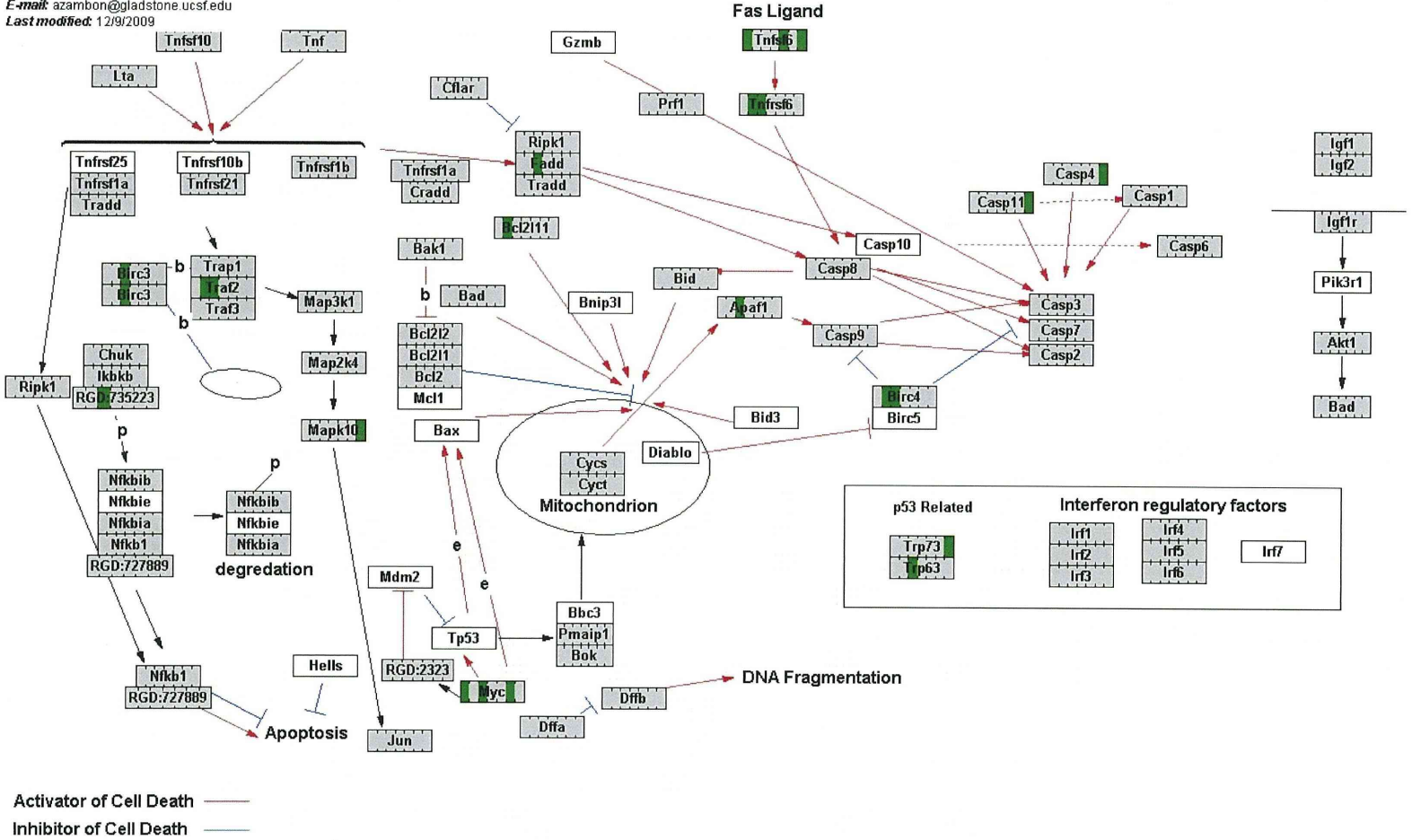


Figure 32 Apoptosis mechanisms in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

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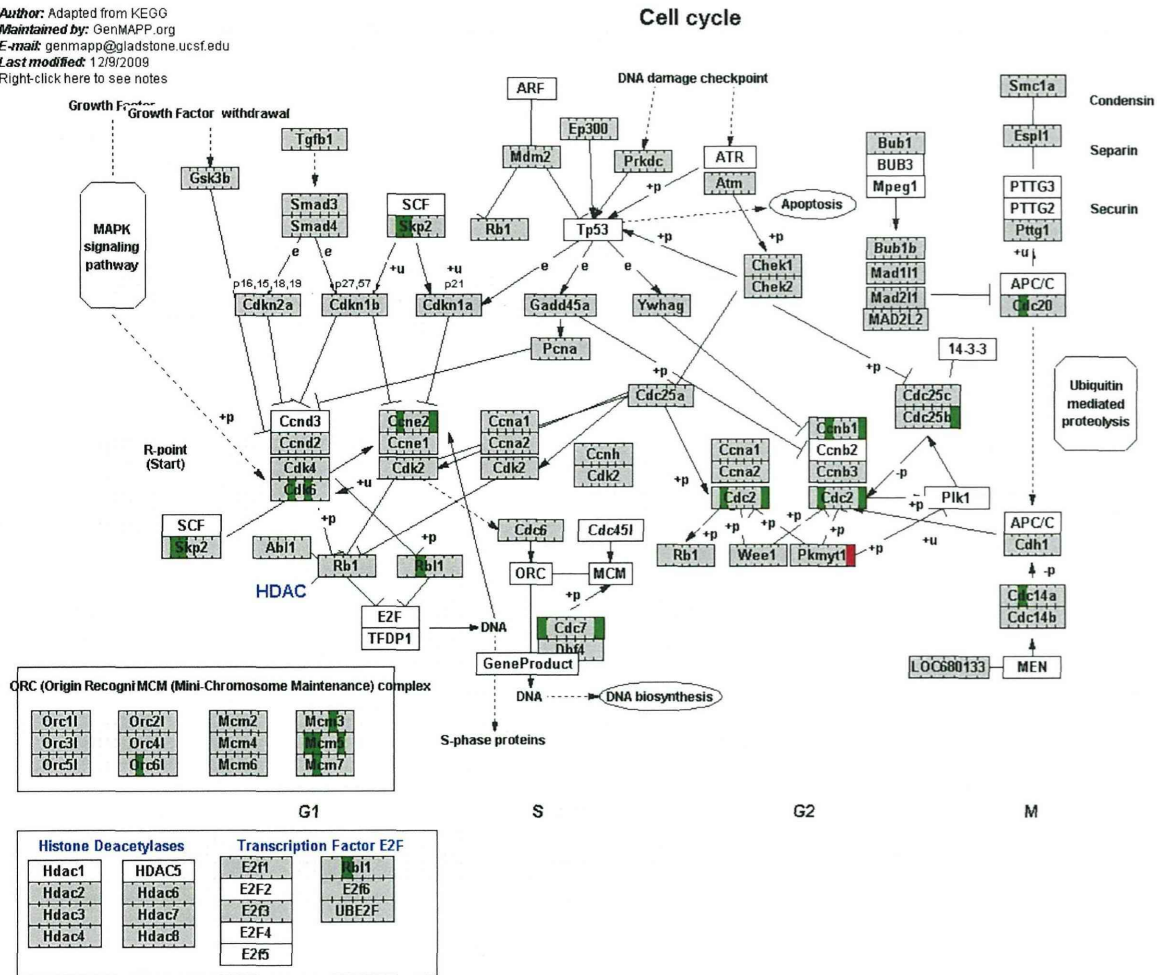


Figure 33 Cell cycle in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

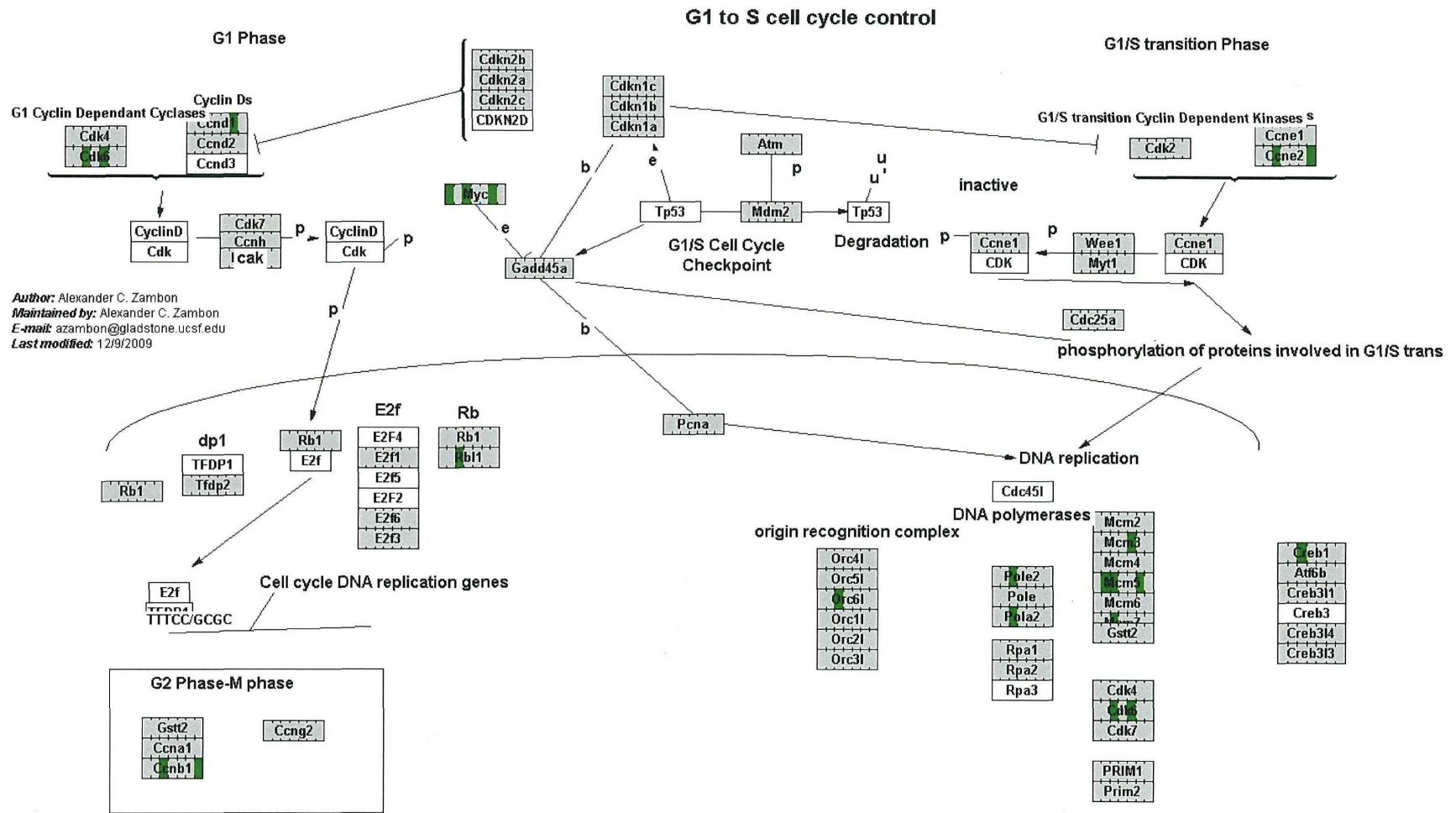


Figure 34 G1 to S cell cycle control in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

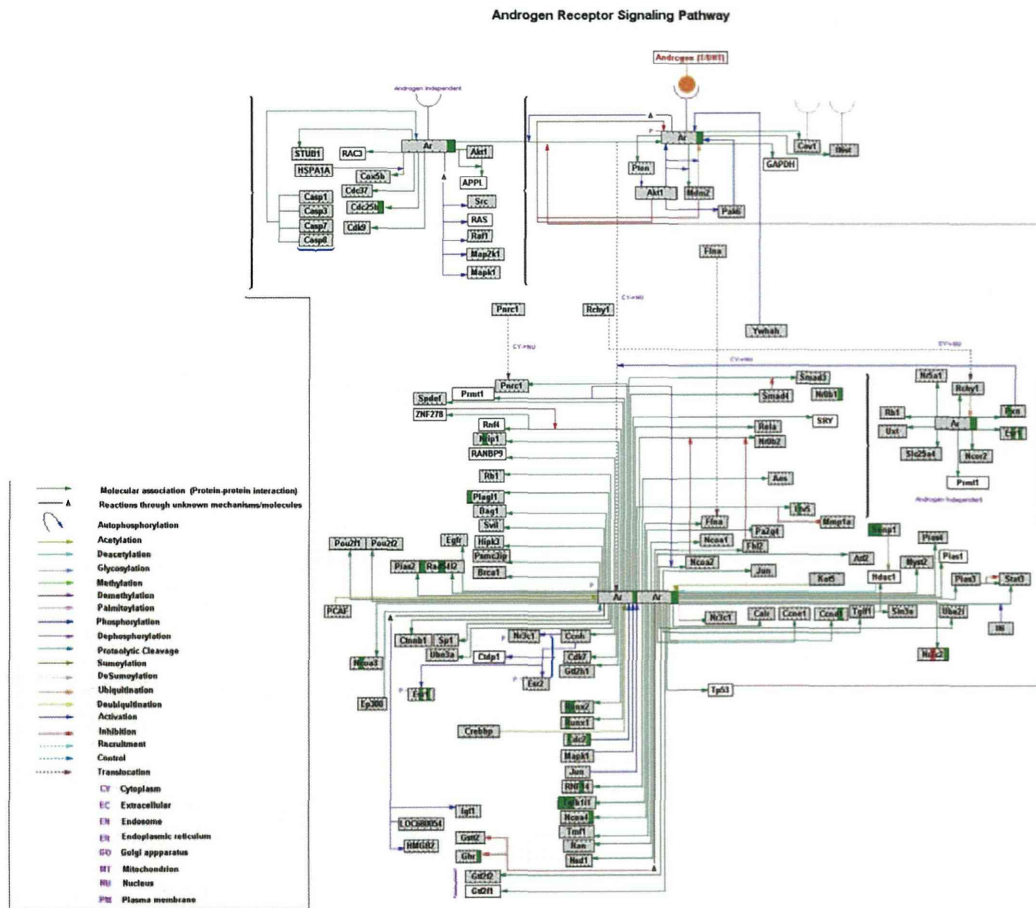


Figure 35 Androgen receptor signaling pathway in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

### Notch Signaling Pathway

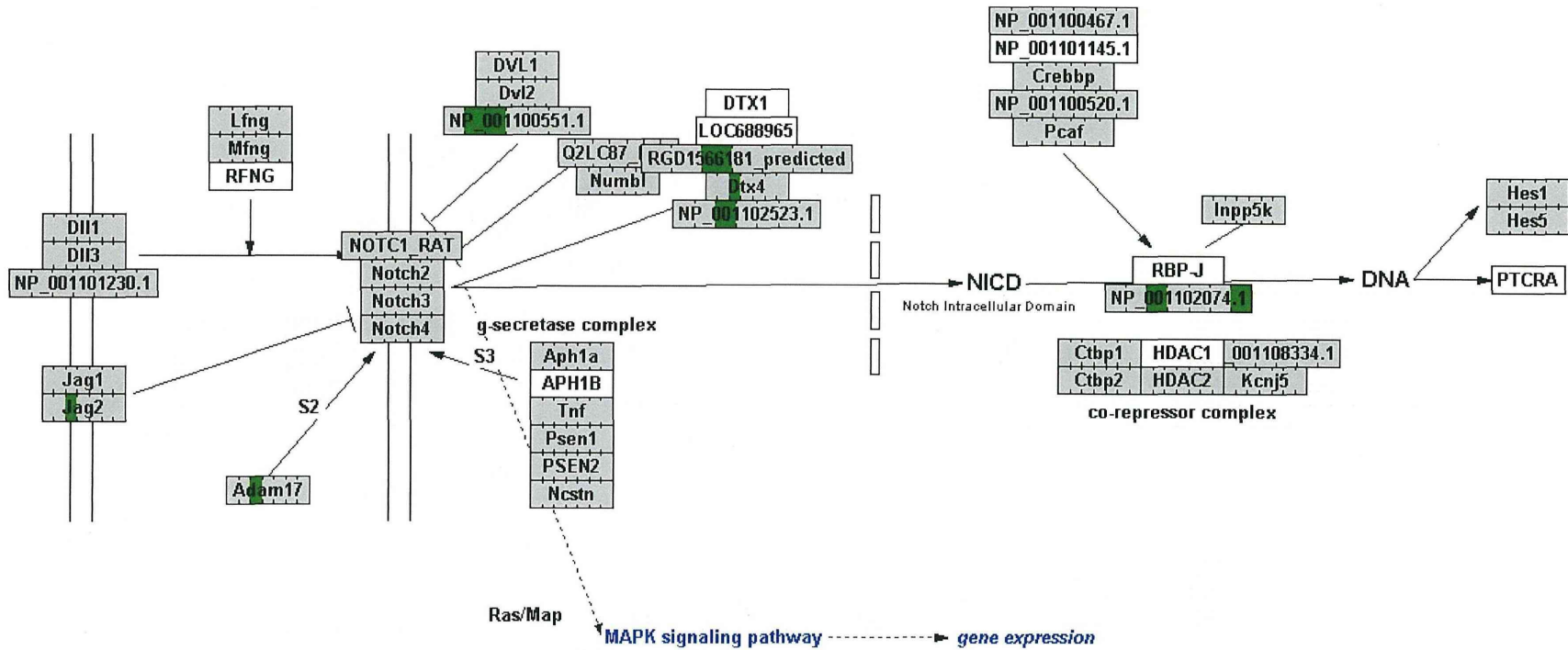


Figure 36 Notch signaling pathway in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

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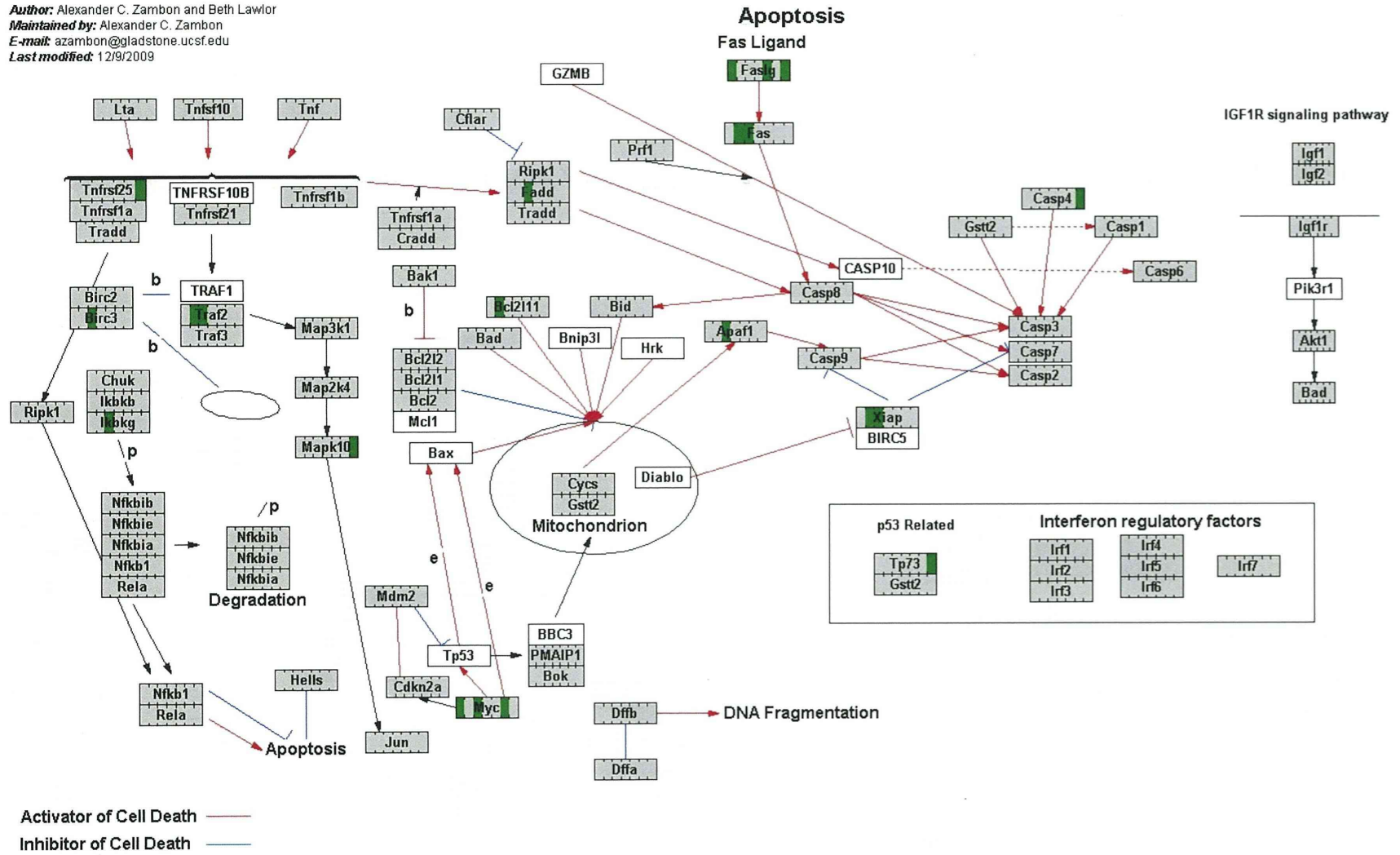


Figure 37 Apoptosis in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

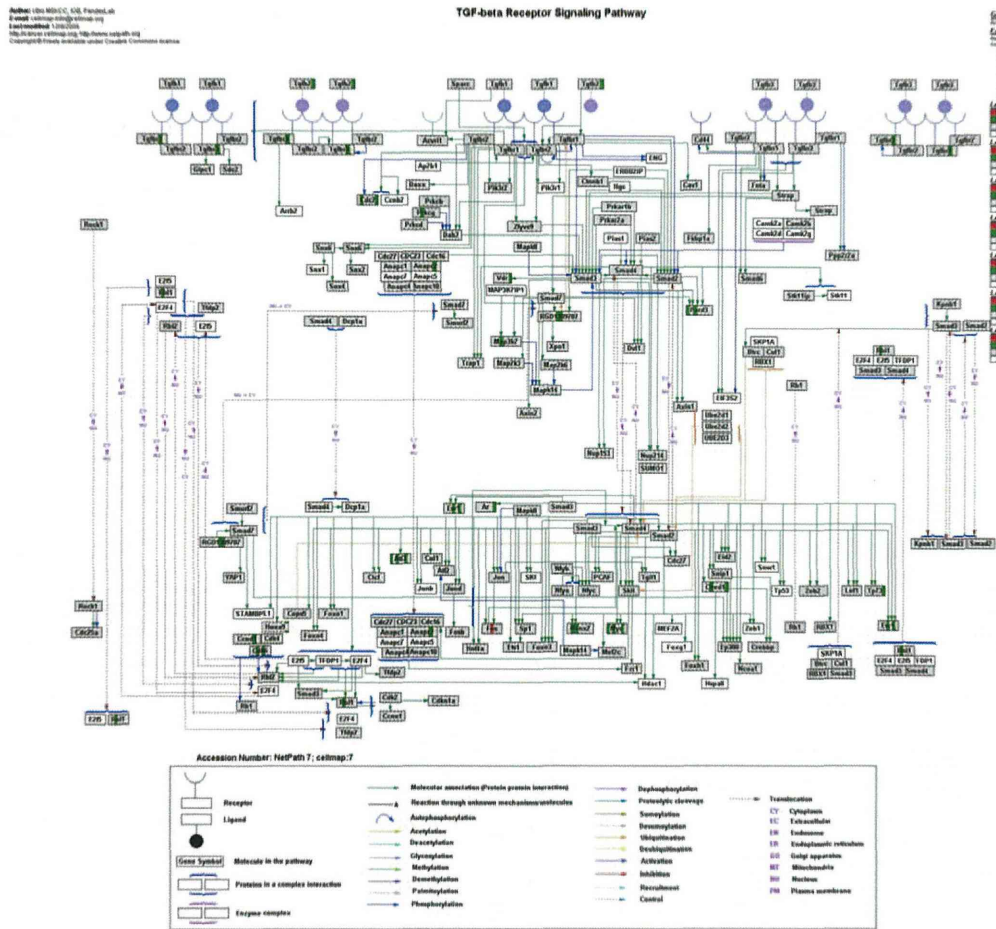


Figure 38 TGF-beta receptor signaling pathway in SHRSP and WKY rats fed diets containing 7 w/w% Tokuhio oils for 4 weeks

T Cell Receptor Signaling Pathway

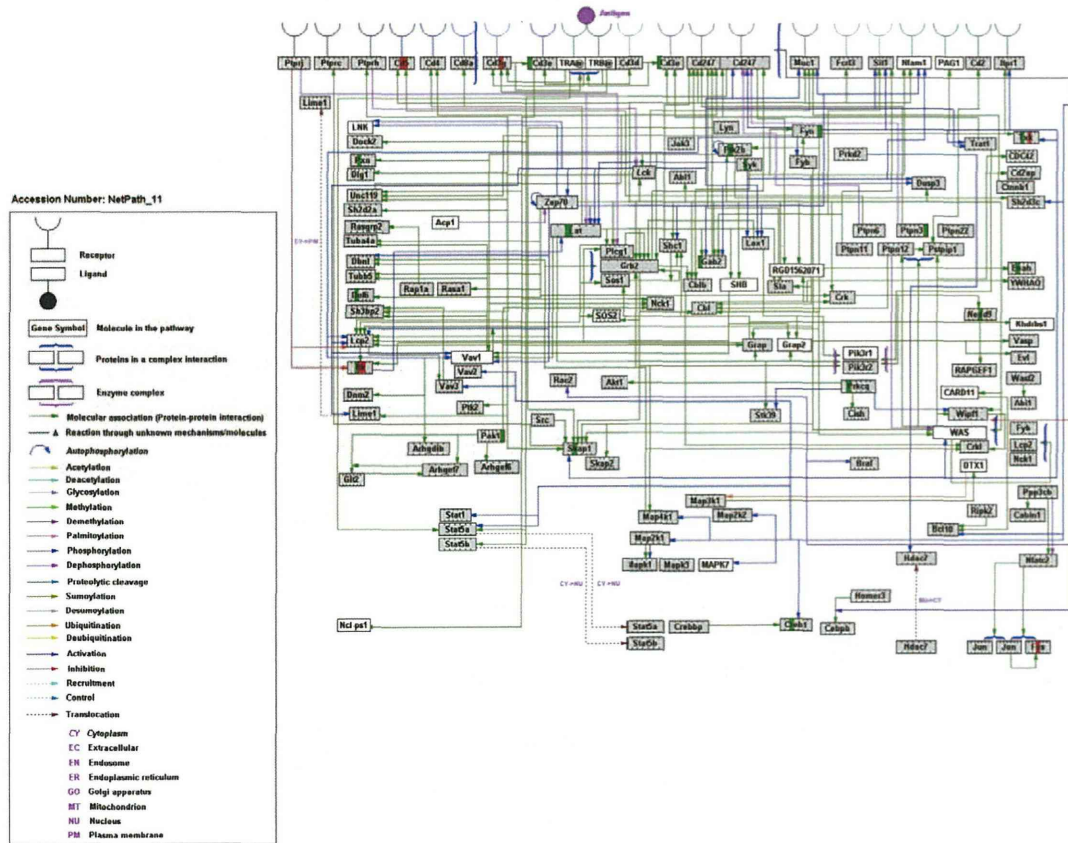
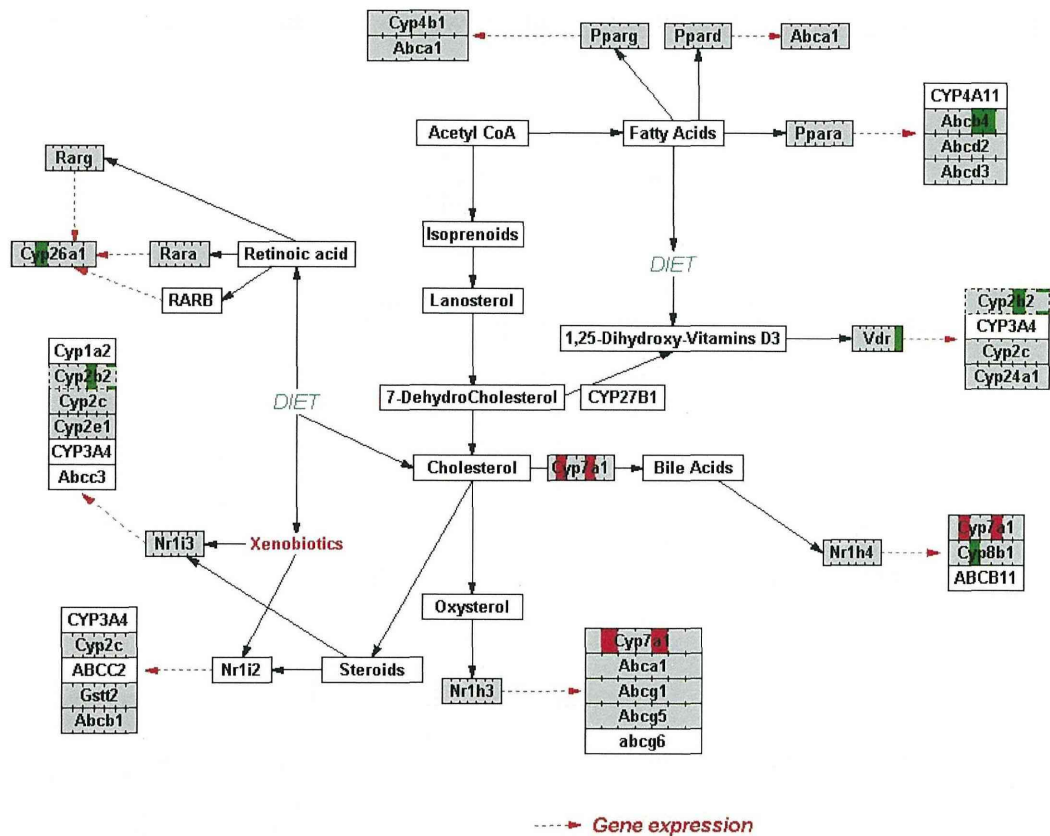


Figure 39 T cell receptor signaling pathway in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks



### Nuclear receptors in lipid metabolism and toxicity



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 Converted to human by GenMAPP.org

Figure 40 Nuclear receptors in lipid metabolism and toxicity in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

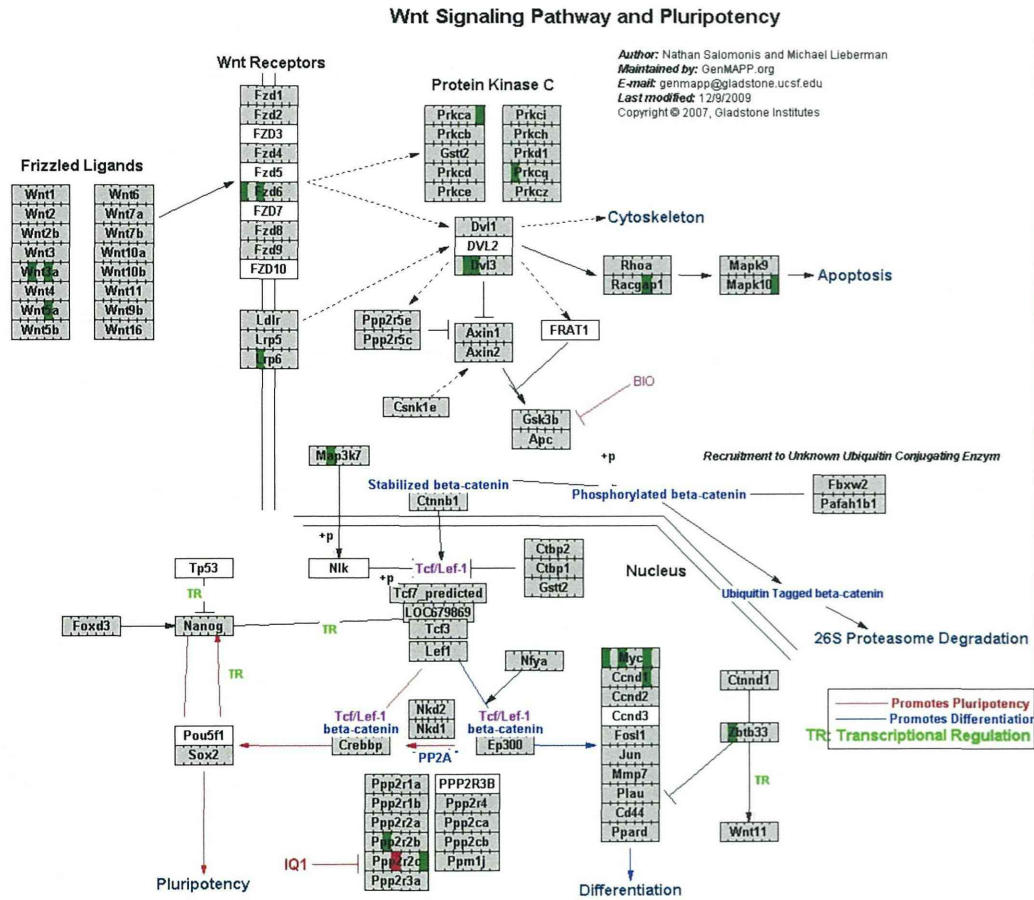


Figure 41 Wnt signaling pathway and pluripotency in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

*Author:* Thomas Kelder (Adapted from science slides)  
*Last modified:* 12/9/2009

## Biosynthesis of Aldosterone and Cortisol

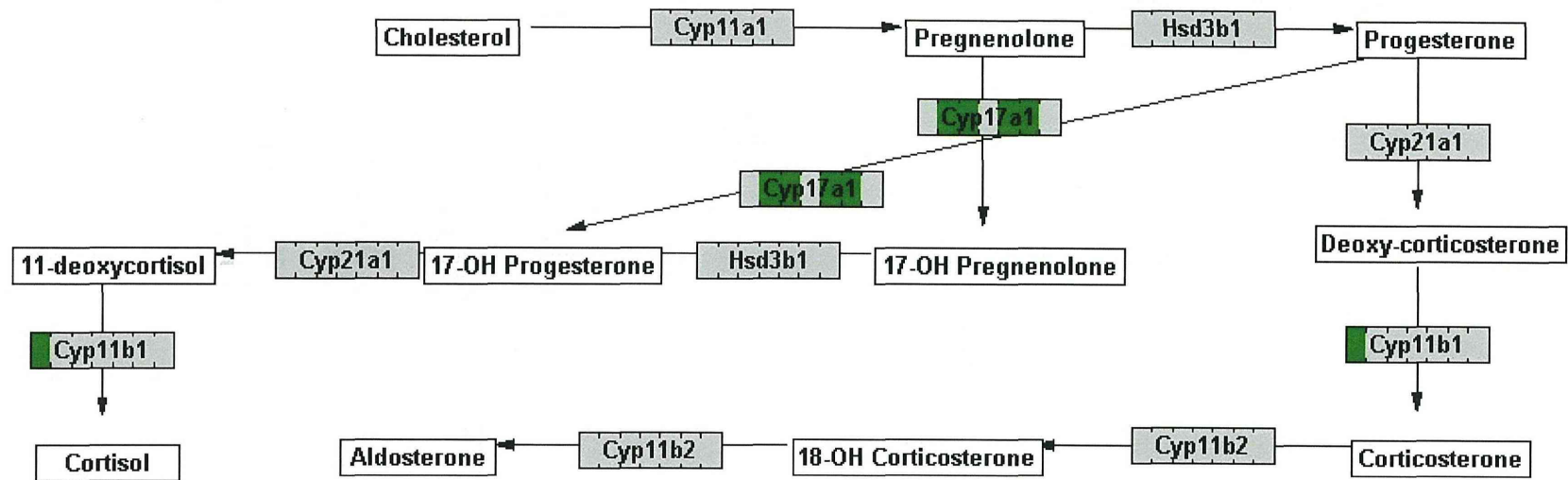


Figure 42 Biosynthesis of aldosterone and cortisol in SHRSP and WKY rats fed diets containing 7 w/w% Tokuho oils for 4 weeks

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### Adipogenesis

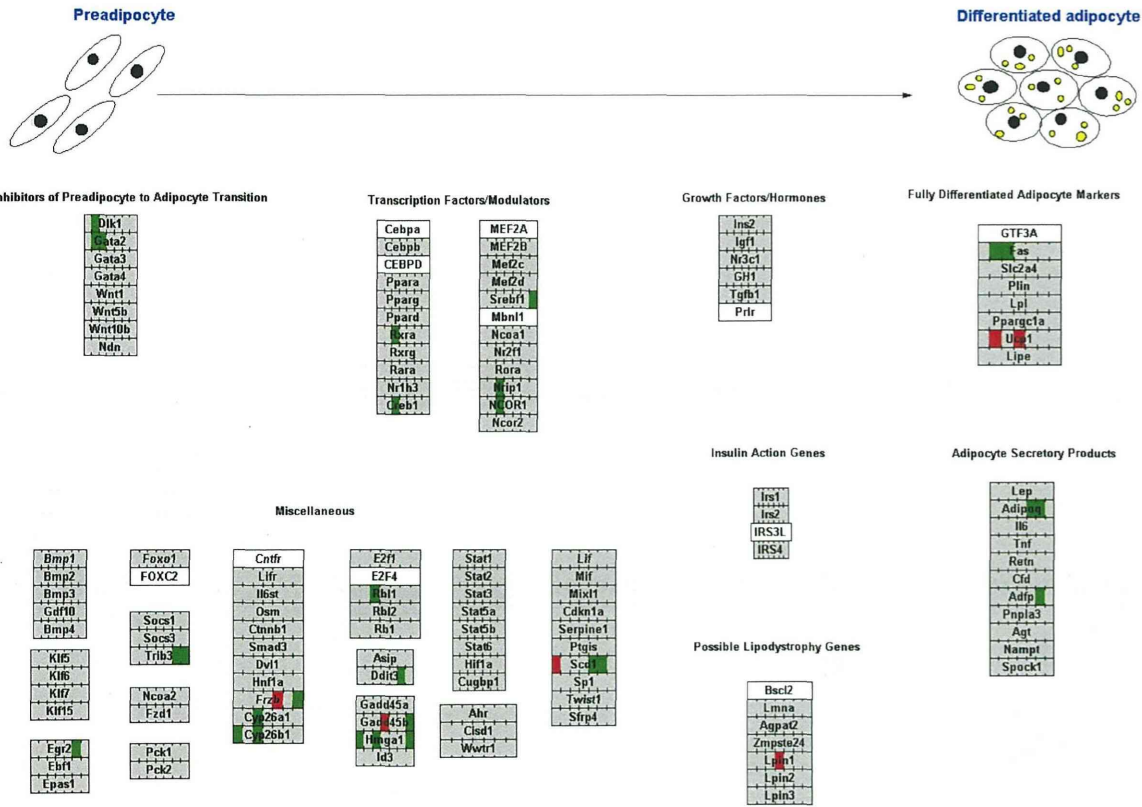


Figure 43 Adipogenesis in SHRSP and WKY rats fed diets containing 7 w/w% Tokuh oils for 4 weeks

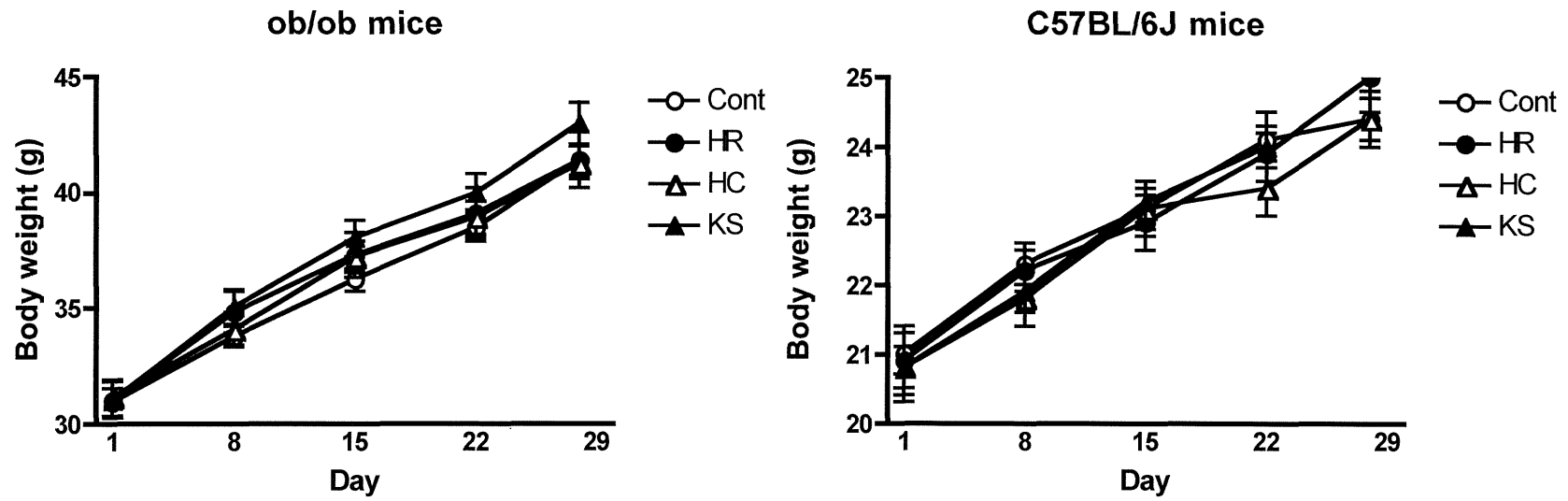


Figure 44 Body weight changes in ob/ob and C57BL/6J mice fed diets containing 7 w/w% Tokuho oils for 4 weeks

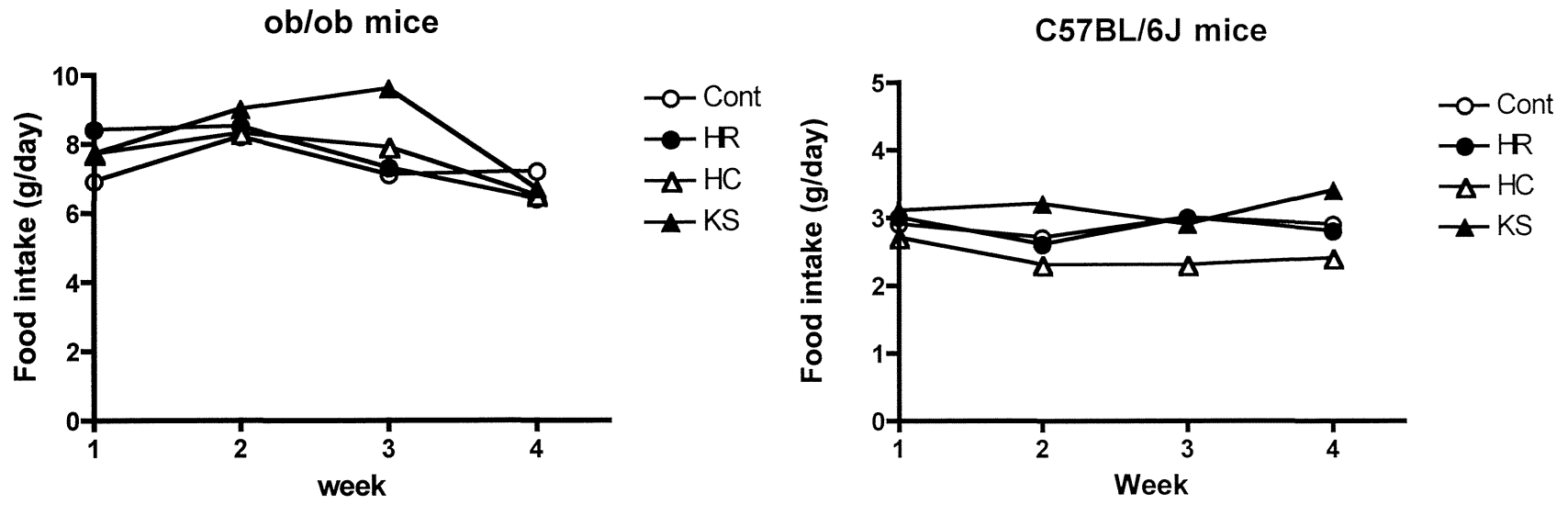


Figure 45 Food intake in ob/ob and C57BL/6J mice fed diets containing 7 w/w% Tokuho oils for 4 weeks

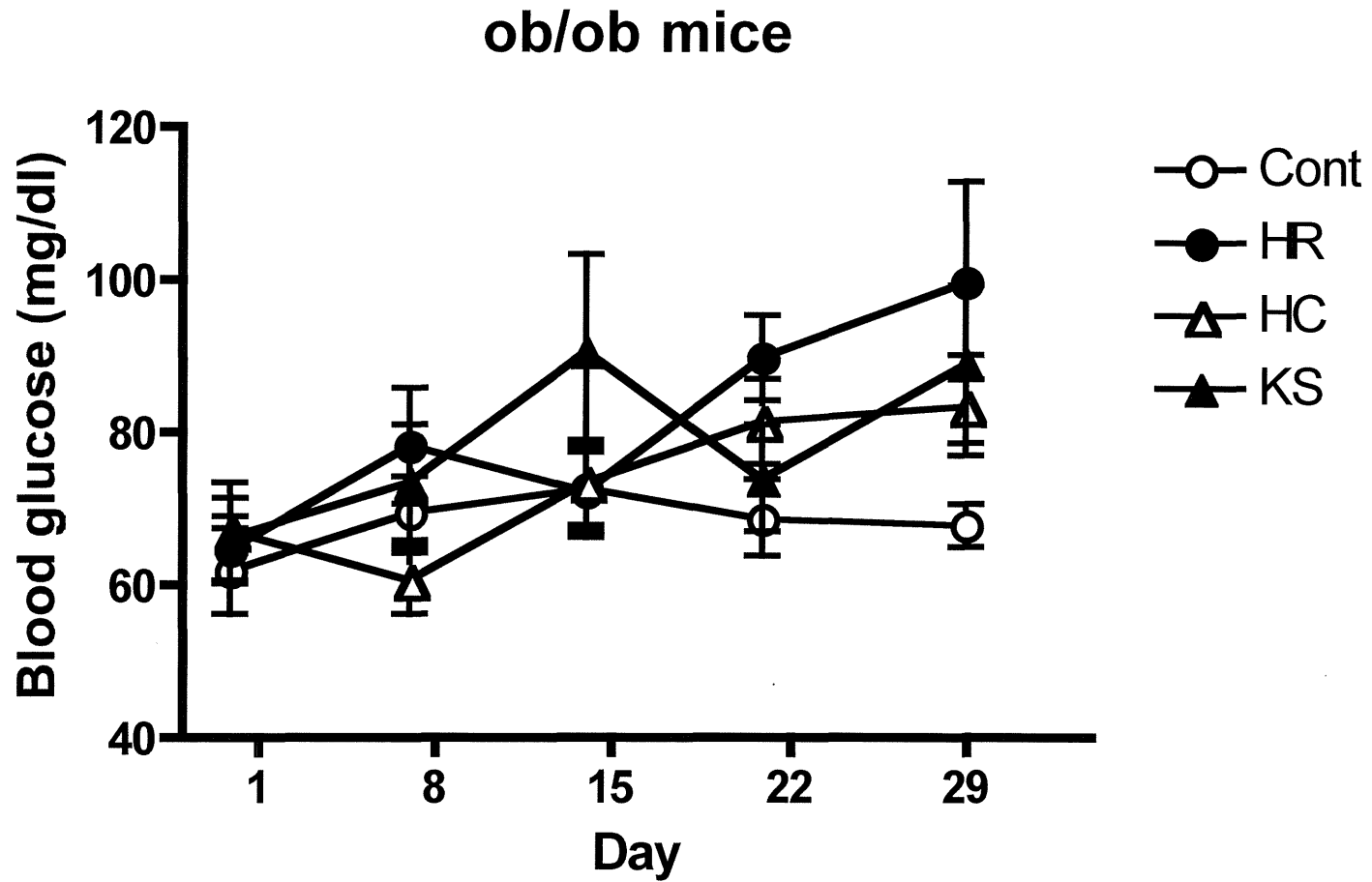


Figure 46 Blood glucose levels in ob/ob mice after 18-hr fasting fed diets containing 7 w/w% Tokuho oils for 4 weeks.

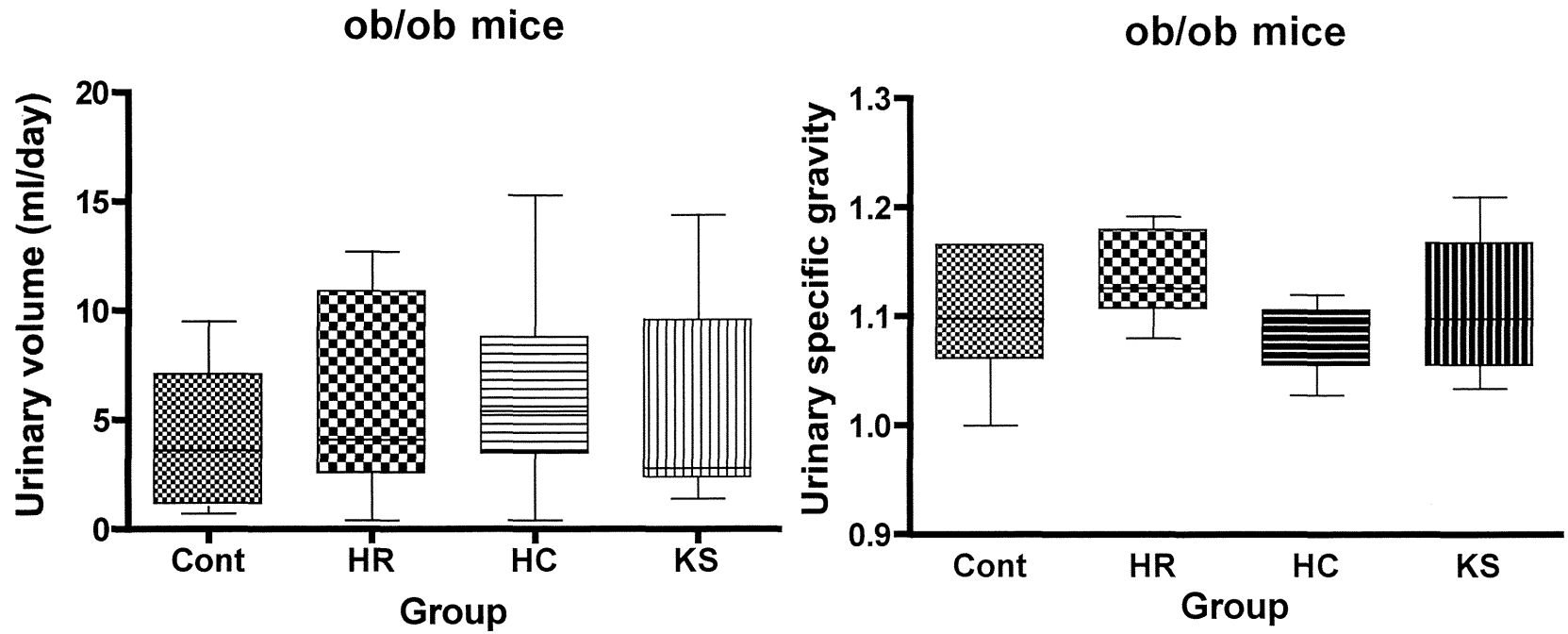


Figure 47 Urinary volume and specific gravity in ob/ob mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuho oils for 4 weeks.



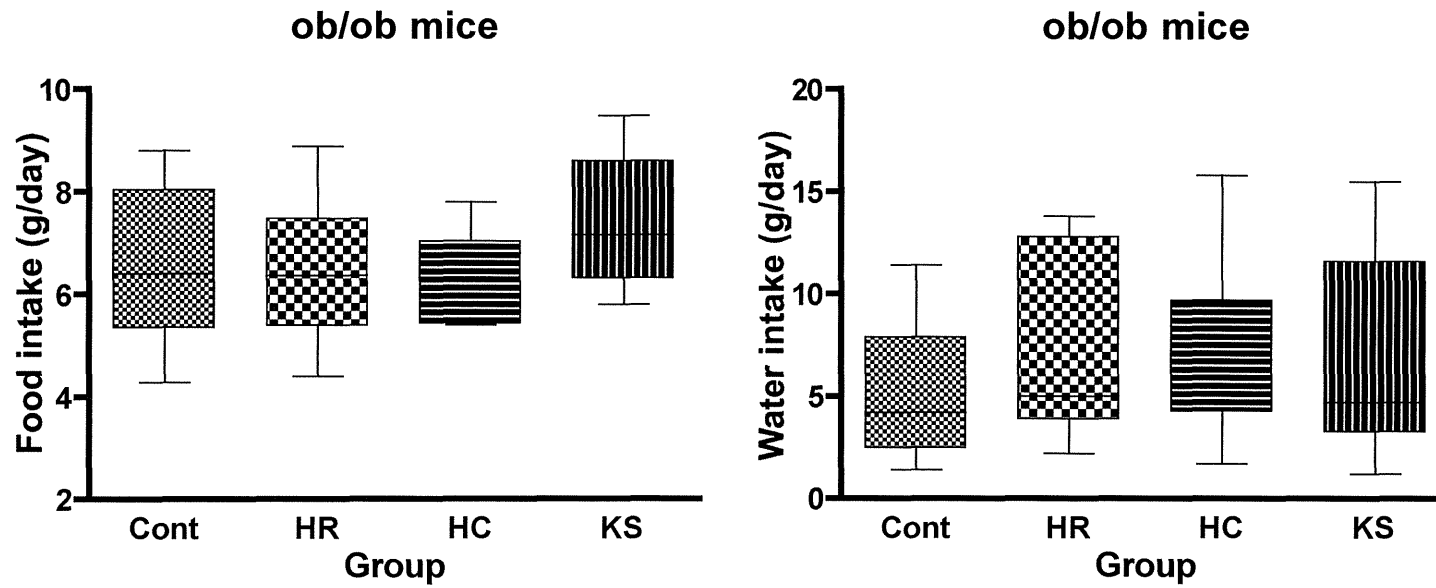


Figure 48 Food and water intake in *ob/ob* mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuhō oils for 4 weeks.

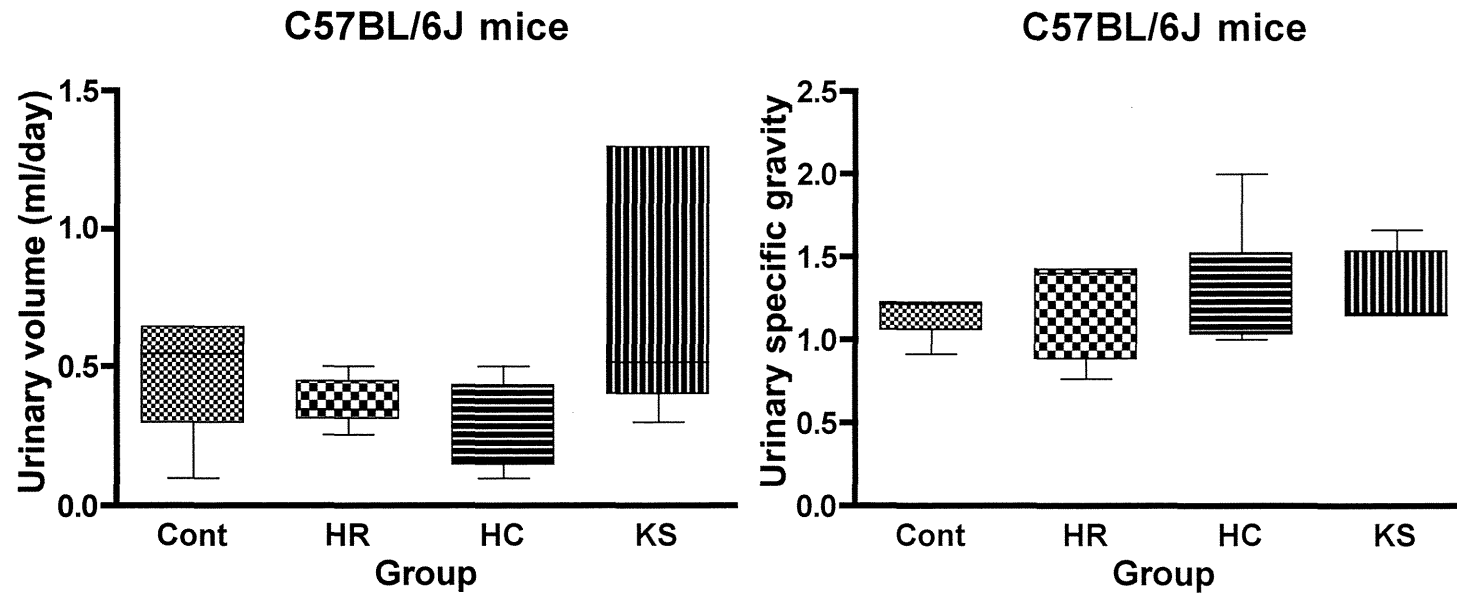


Figure 49 Urinary volume and specific gravity in C57BL/6J mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuho oils for 4 weeks.

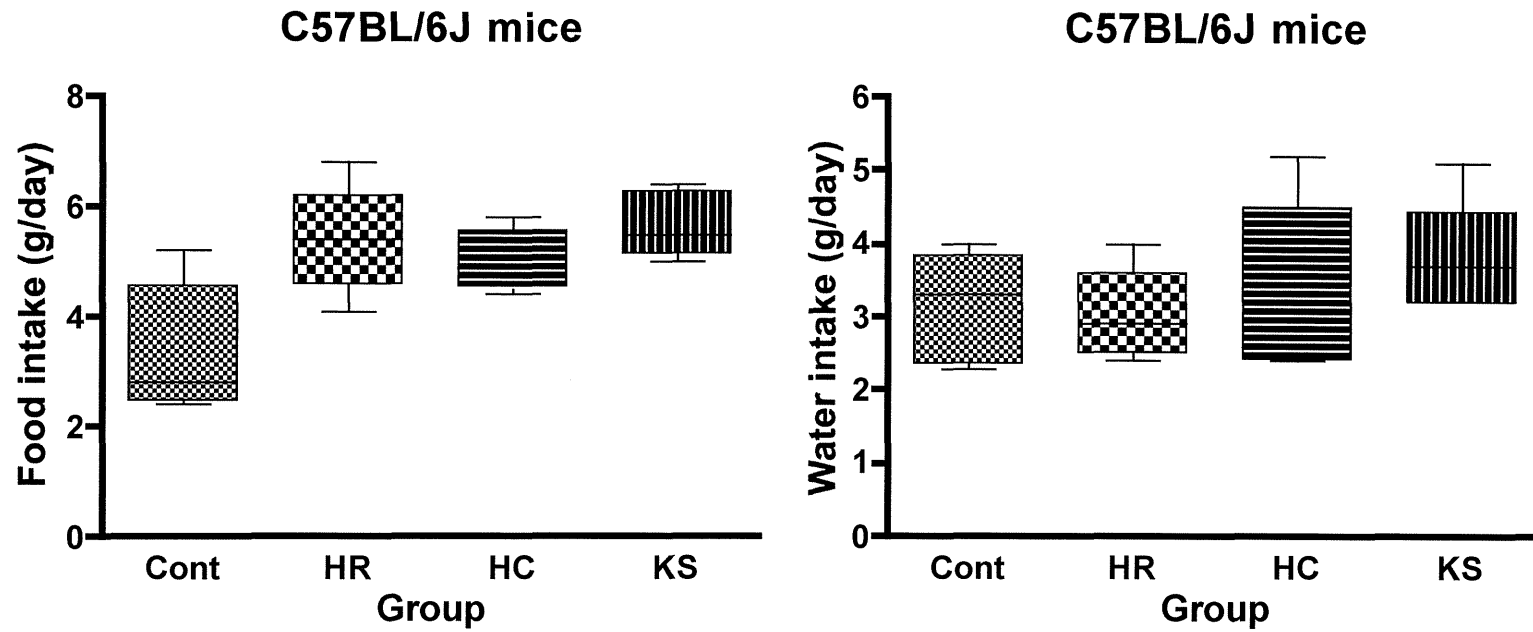


Figure 50 Food and water intake in C57BL/6J mice kept in metabolic cages in the 4th week. Mice were fed diets containing 7 w/w% Tokuho oils for 4 weeks.

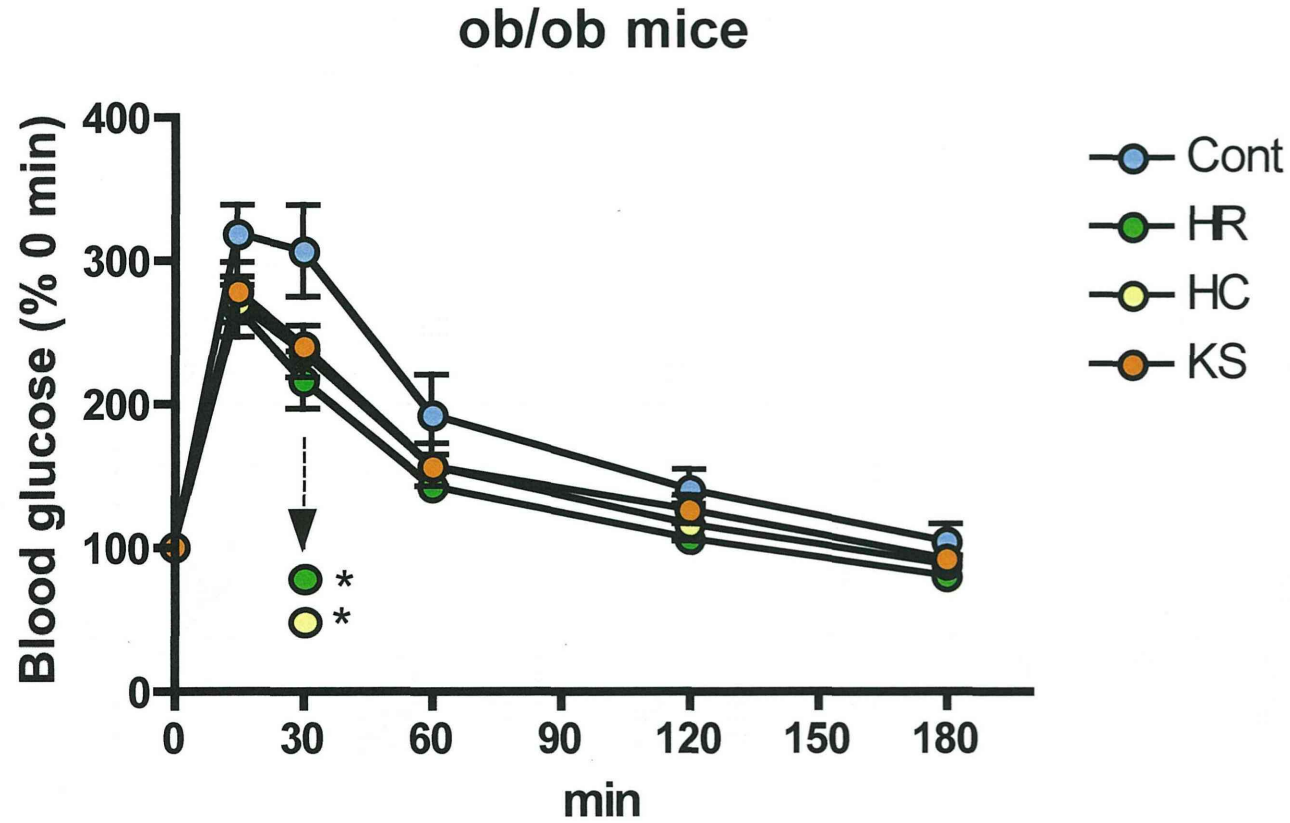


Figure 51 Oral glucose tolerance test in ob/ob mice after 18-hr fasting in the 4th week  
Mice were fed diets containing 7 w/w% Tokuho oils for 4 weeks.  
\* $p < 0.05$ , significantly different from the value of Cont group (Dunnett's test)