

Supplemental tables

Table S1 Primer sequence used in real-time PCR

Gene name	Primer sequence
<i>CPT1α</i>	F-5'-GGAGAGGAGACAGACACCATCCA-3'; R-5'-CAAAATAGGCCTGACGACACCTG-3'
<i>NQO-1</i>	F-5'-TGGAGTCCCTGCCATTCT-3'; R-5'-AGCACTGCCTTCTTACTC-3'
<i>HMOX-1</i>	F-5'-AAGACTGCGTTCCTGCTCAA-3'; R-5'-AAAGTTCATGGCCCTGGGAG-3'
<i>GSTT2</i>	F-5'-TGACACTGGCTGATCTCATGGCC-3'; R-5'-GCCTCCTGGCATAGCTCAGCAC-3'
<i>ACACA</i>	F-5'-GCCATGTTATTGCTGCTCGG-3'; R-5'-ACCCCGAATAGACAGCTCCT-3'
<i>ABCA1</i>	F-5'-AAGGAACTAGTCCCGGCAAA-3'; R-5'-CGTGGCTGGTCATTAACGTTT-3'
<i>APOA</i>	F-5'-TTGCCCACTCTATTTGCCCA-3'; R-5'-GTGGGGGACCTCCTTCTCG-3'
<i>Rpl30</i>	F-5'-GTGGGAGCTCCTTCCTTTCTC-3'; R-5'-GACTTTTTCGTCTTCTTTGCGG-3'
<i>Srebp1c</i>	F-5'-GGAGCCATGGATTGCACATT-3'; R-5'-GCTTCCAGAGAGGAGGCCAG-3'
<i>Abca1</i>	F-5'-TGCCACTTTCCGAATAAGC-3'; R-5'-GGAGTTGGATAACGGAAGCA-3'
<i>Scd1</i>	F-5'-CACCTGCCTCTTCGGGATTT-3'; R-5'-CTTTGACAGCCGGGTGTTTG-3'

Table S2 Hepatic gene expression in LF-, WD+G-, and WD+D- fed mice relative to WD^a

Symbol	LF/WD		WD+G/WD		WD+D/WD	
	Fold Change	p value	Fold Change	p value	Fold Change	p value
<i>Gsta1</i>	0.01	0.002	0.1	0.02	0.5	0.2
<i>Gstm2</i>	0.3	0.0007	0.2	0.002	0.3	0.01
<i>Cebpb</i>	1.1	0.5	0.3	0.01	0.3	0.01
<i>Acaa1a</i>	0.6	0.02	0.4	0.02	0.6	0.2
<i>Pdk4</i>	1.9	0.3	0.4	0.1	0.7	0.3
<i>Elovl5</i>	1.	1.0	0.4	0.09	0.5	0.2
<i>Cyp2b10</i>	0.1	0.007	0.5	0.1	0.7	0.5
<i>Fads2</i>	1.2	1.0	0.5	0.09	0.7	0.3
<i>Ikbkb</i>	1.04	0.5	0.5	0.03	0.6	0.05
<i>Abcb1a</i>	0.4	0.02	0.6	0.3	0.9	0.7
<i>Acox1</i>	0.8	0.3	0.7	0.1	1.03	0.7
<i>Cebpa</i>	1.2	0.8	0.7	0.1	0.7	0.2
<i>Abcc4</i>	0.6	0.2	0.8	0.4	1.2	0.8
<i>Slco10a2</i>	0.6	0.2	0.8	0.3	1.2	0.5
<i>Cyp2c29</i>	0.5	0.002	0.8	0.1	0.9	0.5
<i>Cpt1a</i>	0.8	0.5	0.8	0.2	0.9	0.4
<i>Fads1</i>	2.1	0.1	0.8	0.3	0.6	0.3
<i>Pklr</i>	1.4	0.08	0.8	0.3	0.6	0.05
<i>Fasn</i>	1.6	0.2	0.9	0.5	1.2	0.8
<i>Abcb4</i>	0.8	0.2	0.9	0.3	1.4	0.3
<i>Tgfb1</i>	0.8	0.2	0.9	0.5	1.2	0.7
<i>Cyp4a14</i>	1.08	0.7	0.9	0.9	4.01	0.05
<i>Nqo1</i>	0.4	0.005	0.9	0.6	1.8	0.04
<i>Abcc2</i>	0.8	0.4	0.9	0.5	1.2	0.9
<i>Pex16</i>	1.06	0.9	0.9	0.4	1.05	0.7
<i>Sptlc2</i>	0.6	0.01	0.9	0.5	1.2	0.5
<i>Bcl3</i>	1.2	1.0	0.9	0.3	1.0	0.3
<i>Abcc3</i>	0.4	0.02	0.9	0.6	1.3	0.5
<i>Aldh1a1</i>	0.6	0.1	0.9	0.5	2.0	0.2
<i>Ldlr</i>	1.5	0.2	1.0	0.5	1.01	0.7
<i>Bmp4</i>	1.6	0.1	1.0	0.6	1.3	0.7
<i>Elovl2</i>	1.7	0.04	1.0	0.6	0.8	0.2
<i>Lpl</i>	0.6	0.8	1.0	0.9	1.9	0.01
<i>Lasp1</i>	1.2	0.7	1.1	1.0	1.3	0.7
<i>Mmp2</i>	1.6	0.4	1.2	0.8	1.4	0.9
<i>Cxcl1</i>	0.5	0.003	1.2	0.2	1.2	0.3
<i>Crp</i>	0.9	0.8	1.2	0.4	1.2	0.3
<i>Cyp3a11</i>	0.5	0.005	1.2	0.5	2.07	0.0005
<i>Ppargc1b</i>	2.0	0.008	1.2	0.9	1.4	0.5
<i>Nqo2</i>	0.7	0.04	1.2	0.3	1.3	0.2
<i>Srebf1</i>	0.7	0.1	1.2	0.8	2.02	0.05
<i>Apoe</i>	0.8	0.2	1.3	1.0	1.7	0.3
<i>Acly</i>	1.9	0.1	1.3	0.7	1.09	0.9
<i>Fabp1</i>	1.2	0.2	1.4	0.06	1.6	0.0006
<i>Gck</i>	0.5	0.05	1.4	0.3	1.8	0.03
<i>Pygl</i>	0.9	0.7	1.4	0.02	1.4	0.04
<i>Ccl5</i>	0.7	0.04	1.5	0.2	2.8	0.01
<i>Hmgcr</i>	2.7	0.0006	1.5	0.09	1.3	0.3
<i>Abcb11</i>	1.05	0.7	1.5	0.1	1.6	0.1
<i>Apob</i>	1.0	0.9	1.5	0.09	2.04	0.002
<i>Crebbp</i>	1.3	0.2	1.6	0.04	1.9	0.004
<i>Ptgs1</i>	0.9	0.4	1.7	0.09	1.9	0.01
<i>Fgf21</i>	0.9	0.7	1.8	0.4	5.08	0.01
<i>Abcg5</i>	0.4	0.006	1.8	0.06	1.8	0.06
<i>Baat</i>	0.7	0.5	1.8	0.02	2.2	0.002
<i>Slco10a1</i>	1.6	0.03	2.007	0.0004	1.5	0.02
<i>Sirt5</i>	1.07	0.9	2.01	0.1	2.9	0.007
<i>Scd1</i>	0.5	0.02	2.06	0.003	2.2	0.003
<i>Ppargc1a</i>	1.4	0.06	2.09	0.005	2.2	0.002
<i>Col3a1</i>	0.7	0.9	2.3	0.1	4.5	0.003
<i>Cited2</i>	1.0	1.0	2.3	0.001	2.8	0.0002
<i>Msr1</i>	1.0	1.0	2.3	0.003	3.05	0.00001

<i>Slco1a4</i>	1.0	0.8	2.4	0.007	1.2	0.9
<i>Ccl2</i>	0.2	0.005	2.5	0.02	4.8	0.007
<i>Creb1</i>	0.9	0.6	2.7	0.00007	3.1	0.000004
<i>Pck1</i>	1.3	0.2	2.8	0.002	3.2	0.09
<i>Sult5a1</i>	1.09	0.9	2.8	0.008	3.6	0.0001
<i>Sirt1</i>	1.2	0.4	3.0	0.0001	3.3	0.000009
<i>Abca1</i>	1.04	0.7	3.0	0.00005	4.01	0.00001
<i>Alox8</i>	0.9	0.2	3.06	0.002	4.1	0.1
<i>Hmox1</i>	0.7	0.7	3.1	0.0006	4.5	0.00000001
<i>Slco1a1</i>	2.3	0.003	3.4	0.000003	2.3	0.03
<i>Ptges2</i>	1.5	0.1	3.4	0.000005	3.5	0.000005
<i>Ephx1</i>	0.7	0.7	3.5	0.001	5.2	0.00005
<i>Crtc2</i>	2.2	0.09	3.6	0.001	4.8	0.00004
<i>Creb3l2</i>	1.4	0.2	3.8	0.007	4.5	0.0002
<i>Cyp27a1</i>	1.7	0.2	4.0	0.0007	4.4	0.0005
<i>Apoa1</i>	1.4	0.4	4.1	0.001	4.9	0.0002
<i>Nos3</i>	1.2	0.7	4.5	0.20	4.7	0.2
<i>Socs3</i>	5.3	0.0004	5.0	0.03	4.9	0.02
<i>Abcg2</i>	1.1	0.9	5.8	0.007	8.6	0.0004
<i>Acaca</i>	1.8	0.09	6.04	0.0002	6.9	0.0002
<i>Cyp8b1</i>	2.9	0.07	6.6	0.003	9.7	0.0009
<i>Cyp7a1</i>	0.5	0.2	7.0	0.00002	7.0	0.000004
<i>Cyp1a2</i>	2.0	0.2	8.5	0.000009	8.5	0.000009
<i>Hsl</i>	2.9	0.07	8.9	0.000006	19.3	0.000000001
<i>Cd14</i>	0.8	0.6	10.4	0.00000001	11.5	0.00005

^aFold change and *p* value are shown. *Rpl30* gene was set as the control gene.

Table S3 Relative expression of LXR regulated mRNAs in mice fed genistein or daidzein^a

	LF/WD	G/WD	D/WD
<i>Abca1</i>	1.0	3.0	4.0
<i>Abcg5</i>	0.4	1.8	1.8
<i>Acaca</i>	1.8	6.0	6.9
<i>Apoa1</i>	1.3	4.1	4.9
<i>Apob</i>	1.0	1.5	2.0
<i>Apoe</i>	0.8	1.3	1.6
<i>Cd14</i>	0.8	10.4	11.4
<i>Cyp7a1</i>	0.5	7.0	7.0
<i>Fasn</i>	1.6	0.8	1.2
<i>Hmgcr</i>	2.7	1.5	1.3
<i>Ldlr</i>	1.5	0.9	1.0
<i>Lpl</i>	0.6	1.1	1.9
<i>Msr1</i>	1.0	2.3	3.1
<i>Scd1</i>	0.5	2.1	2.2
<i>Srebf1</i>	0.7	1.2	2.0

^aThe fold change is displayed for genes that were significantly changed compared to the WD control group. Shades of red and green indicate the degree of upregulation or downregulation, compared to WD- fed mice, respectively.