

Table S8. GO analysis of genes overlapping traits

<u>Trait1</u>	<u>Trait2</u>	<u># of shared transcripts (p-value threshold)</u>	<u>GO Functional Term (# of genes in category, p-value)</u>	<u>KEGG Pathway</u>
Weight	Sugar	147 (0.01)	Oxidation Reduction (19, 2.3E-5) branched chain family amino acid metabolic process (3, 1.9E-3)	Valine, leucine and isoleucine degradation (4, 7.6E-3)
Weight	Triglyceride	66 (0.01)	protein homooligomerization (2, 1.6E-2)	none
Triglyceride	Sugar	93 (0.05)	neuropeptide signaling pathway (3, 1.5E-2) regulation of transcription (10, 1.9E-2) structural constituent of chitin-based larval cuticle (3, 2.3E-2)	none