

Supplemental Table 2: TAG catabolism in *pudgy[BG]* mutant and control animals after 16 hours starvation.

Lipid levels, in mg lipid per mg protein, in 3-day old control and *pudgy[BG]* mutant males starved for 0 or 16 hours. Average values and standard deviation for triplicate biological replicates are indicated. Values in parenthesis in the lipid names indicate the total number of carbons in the fatty acids chains, and the total level or desaturation. Ceramide (Cer), Cholesterol ester (ChoE), Diacylglycerol (DG), Lyso-Phosphatidylcholine (LysoPC), Monoacylglycerol (MG), Phosphatidic Acid (PA), Phosphatidylcholine (PC), Phosphatidylethanolamine (PE), Phosphatidylglycerol (PG), Phosphatidylserine (PS), Sphingomyelin (SM), Triacylglycerol (TG).

Name	Averages				Stdev			
	Controls		Mutants		Controls		Mutants	
	Fed	Starved	Fed	Starved	Fed	Starved	Fed	Starved
TG(46:1)*	1.2E+00	7.5E-01	2.2E+00	1.5E+00	1.9E-01	8.6E-02	1.5E-02	4.2E-01
TG(46:2)*	9.2E-01	5.8E-01	1.5E+00	1.1E+00	2.3E-01	9.1E-02	1.1E-01	2.4E-01
TG(44:1)	8.8E-01	5.6E-01	1.2E+00	1.0E+00	7.4E-02	1.1E-01	2.3E-01	2.7E-01
TG(42:0)*	8.1E-01	4.6E-01	7.6E-01	6.1E-01	1.8E-01	5.2E-02	4.1E-02	1.6E-01
TG(14:0/16:0/18:1)	7.8E-01	7.1E-01	1.8E+00	1.6E+00	1.4E-01	4.7E-02	1.1E-01	4.3E-01
TG(40:0)*	7.5E-01	4.3E-01	8.0E-01	5.7E-01	1.4E-01	2.2E-02	4.0E-02	1.7E-01
TG(48:2)*	7.2E-01	5.3E-01	1.4E+00	1.4E+00	7.9E-02	1.6E-01	1.0E-01	2.9E-01
TG(42:1)*	3.8E-01	2.6E-01	5.4E-01	4.2E-01	8.3E-02	4.2E-02	8.3E-02	1.5E-01
TG(14:0/18:1/18:1)+TG(16:0/16:1/18:1)	3.6E-01	3.1E-01	9.4E-01	7.9E-01	1.1E-01	1.0E-01	7.7E-02	2.3E-01
TG(48:3)	3.2E-01	2.6E-01	7.2E-01	5.9E-01	3.1E-02	6.4E-02	7.6E-02	1.3E-01
TG(44:0)*	2.3E-01	1.7E-01	3.4E-01	2.8E-01	8.0E-03	4.3E-02	4.6E-02	6.2E-02
TG(50:3)*	2.3E-01	1.9E-01	6.6E-01	5.4E-01	7.8E-02	6.9E-02	2.5E-02	1.3E-01
TG(38:0)*	2.2E-01	1.1E-01	2.8E-01	2.2E-01	3.3E-02	1.4E-02	2.0E-02	5.8E-02
TG(16:0/18:0/17:0)	2.2E-01	2.4E-01	2.2E-01	2.5E-01	6.5E-03	1.7E-02	2.1E-02	2.8E-03
TG(50:1)	1.3E-01	1.0E-01	3.9E-01	4.0E-01	1.9E-02	1.9E-02	5.1E-02	1.5E-01
TG(40:1)*	1.0E-01	5.0E-02	1.6E-01	1.1E-01	1.0E-02	2.3E-03	1.8E-02	2.9E-02
TG(46:3)	9.6E-02	6.3E-02	2.1E-01	2.1E-01	1.1E-02	1.0E-02	1.4E-02	7.7E-02
TG(47:1)	9.2E-02	6.0E-02	1.5E-01	1.5E-01	8.2E-03	5.8E-03	2.3E-02	5.0E-02
TG(16:0/18:2/18:1)	6.5E-02	5.7E-02	1.8E-01	1.7E-01	2.2E-02	1.7E-02	1.0E-02	3.6E-02
TG(16:0/18:1/18:1)	6.3E-02	4.8E-02	1.9E-01	1.8E-01	1.3E-02	1.6E-02	3.5E-03	6.9E-02
TG(48:4)*	5.3E-02	3.6E-02	1.2E-01	1.1E-01	1.2E-02	7.0E-03	8.1E-03	3.1E-02
TG(49:1)*	4.8E-02	3.2E-02	1.1E-01	8.4E-02	5.2E-03	4.6E-03	1.8E-03	3.3E-02
TG(49:2)	4.1E-02	2.7E-02	7.9E-02	6.5E-02	4.3E-03	2.6E-03	6.6E-03	9.5E-03
TG(52:4)	3.8E-02	3.8E-02	1.0E-01	1.1E-01	8.4E-03	1.4E-02	2.2E-02	5.6E-03
TG(49:3)	2.1E-02	1.9E-02	1.9E-02	1.7E-02	8.3E-03	1.5E-03	8.2E-04	6.2E-03
TG(49:2)	1.6E-02	1.6E-02	1.7E-02	1.7E-02	1.8E-03	1.4E-03	1.2E-03	4.1E-03
TG(49:3)*	1.4E-02	1.1E-02	2.7E-02	2.7E-02	2.0E-03	7.8E-04	1.7E-03	8.2E-03
TG(51:2)*	1.4E-02	1.2E-02	2.9E-02	2.7E-02	1.2E-03	1.9E-03	2.2E-03	8.3E-03

TG(52:5)	1.2E-02	1.0E-02	3.0E-02	2.7E-02	1.4E-03	3.7E-03	7.1E-03	7.4E-03
TG(14:0/16:0/18:0)	1.1E-02	1.1E-02	2.0E-02	1.9E-02	2.7E-03	5.5E-03	7.5E-04	6.3E-03
TG(51:1)*	9.9E-03	1.0E-02	2.3E-02	2.0E-02	6.0E-04	1.3E-03	5.6E-03	5.1E-03
TG(53:2)	9.2E-03	1.0E-02	1.3E-02	1.0E-02	9.2E-04	1.6E-03	3.3E-04	3.9E-03
TG(54:0)	9.1E-03	1.0E-02	1.1E-02	1.0E-02	5.8E-04	2.5E-03	1.5E-03	1.8E-03
TG(51:2)	8.7E-03	9.3E-03	6.3E-03	5.4E-03	1.3E-03	1.3E-03	2.0E-04	1.2E-03
TG(48:0)	8.5E-03	7.3E-03	1.0E-02	9.6E-03	1.0E-03	2.1E-03	8.7E-04	3.0E-03
TG(51:3)*	7.4E-03	7.7E-03	1.5E-02	1.4E-02	8.2E-04	9.2E-04	6.2E-04	3.5E-03
TG(18:1/18:2/18:1)	7.3E-03	7.8E-03	1.4E-02	1.5E-02	1.8E-03	2.0E-03	1.9E-03	5.3E-03
TG(50:2)	7.1E-03	6.5E-03	6.4E-03	5.6E-03	2.0E-03	3.6E-04	2.2E-04	2.2E-03
TG(53:1)	7.0E-03	6.4E-03	1.3E-02	1.4E-02	1.7E-03	1.2E-03	1.4E-03	3.5E-03
TG(41:0)	6.2E-03	6.5E-03	6.8E-03	5.9E-03	7.8E-04	8.4E-04	9.7E-04	1.6E-03
TG(16:0/18:0/18:1)	6.2E-03	5.2E-03	1.6E-02	1.3E-02	2.0E-04	4.0E-04	9.1E-04	5.2E-03
TG(47:2)	6.2E-03	5.2E-03	6.2E-03	5.8E-03	3.9E-04	1.5E-03	2.3E-04	1.1E-03
TG(48:5)	6.2E-03	5.2E-03	4.0E-03	5.1E-03	1.8E-03	6.5E-04	2.3E-04	8.4E-04
TG(46:0)	6.1E-03	5.5E-03	9.3E-03	8.6E-03	1.1E-04	8.2E-04	8.5E-04	1.6E-03
TG(51:3)	6.1E-03	8.4E-03	4.6E-03	5.3E-03	5.4E-04	2.5E-03	5.1E-04	1.1E-03
TG(40:2)	6.0E-03	4.2E-03	2.5E-02	2.1E-02	2.7E-04	1.2E-03	1.3E-03	3.2E-03
TG(53:3)	5.9E-03	6.3E-03	1.1E-02	7.6E-03	5.4E-04	1.2E-03	2.9E-04	1.9E-03
TG(18:1/18:1/18:1)	5.1E-03	6.1E-03	7.5E-03	8.6E-03	8.9E-04	2.8E-03	1.7E-03	2.7E-03
TG(51:2)	5.1E-03	4.4E-03	8.0E-03	6.9E-03	9.5E-04	2.9E-04	3.0E-04	2.6E-03
TG(51:3)	4.8E-03	4.6E-03	7.6E-03	6.2E-03	8.7E-04	1.2E-03	5.1E-04	1.9E-03
TG(43:1)	4.7E-03	3.3E-03	6.0E-03	5.5E-03	9.2E-04	4.1E-04	5.8E-04	1.2E-03
TG(49:2)	4.4E-03	5.3E-03	5.2E-03	5.5E-03	5.9E-04	5.7E-04	8.0E-04	1.9E-03
TG(56:2)*	4.2E-03	3.8E-03	6.8E-03	6.4E-03	6.8E-04	1.5E-03	1.4E-03	2.0E-03
TG(42:4)	4.1E-03	4.9E-03	4.1E-03	4.9E-03	1.3E-04	7.0E-04	4.6E-04	1.3E-03
TG(49:3)	4.1E-03	6.2E-03	3.5E-03	4.0E-03	3.6E-04	7.8E-04	1.7E-04	1.1E-03
TG(54:5)	3.8E-03	5.6E-03	6.1E-03	6.6E-03	5.3E-04	2.5E-03	6.4E-04	7.0E-04
TG(47:0)	3.3E-03	3.4E-03	7.3E-03	6.8E-03	4.6E-04	1.3E-03	7.3E-04	1.7E-03
TG(49:3)	3.1E-03	2.7E-03	4.8E-03	4.1E-03	2.0E-04	2.9E-04	4.5E-04	9.7E-04
TG(55:2)	3.1E-03	2.9E-03	9.5E-03	8.4E-03	6.4E-04	1.2E-03	8.9E-04	2.2E-03
TG(37:0)	3.0E-03	1.9E-03	4.4E-03	3.5E-03	3.5E-04	3.0E-04	6.7E-04	6.7E-04
TG(55:3)	3.0E-03	2.7E-03	6.1E-03	5.5E-03	3.9E-04	2.7E-04	5.4E-04	1.6E-03
TG(52:1)	2.7E-03	3.4E-03	4.8E-03	4.7E-03	1.7E-04	2.0E-03	4.9E-04	1.0E-03
TG(16:0/18:1/20:1)+TG(18:0/18:1/18:1)	2.6E-03	2.8E-03	3.5E-03	4.0E-03	5.9E-05	6.9E-04	6.2E-04	1.4E-03
TG(17:0/18:1/18:1)*	2.6E-03	2.6E-03	3.9E-03	3.9E-03	2.8E-04	3.9E-04	2.5E-04	1.9E-03
TG(39:0)	2.6E-03	1.6E-03	3.9E-03	3.4E-03	6.0E-04	9.7E-05	5.8E-04	8.1E-04
TG(54:6)	2.6E-03	2.7E-03	3.9E-03	3.1E-03	4.4E-04	8.3E-04	5.2E-04	5.6E-04
TG(48:1)	2.5E-03	2.4E-03	4.6E-03	4.2E-03	5.8E-04	5.9E-04	3.9E-04	1.2E-03
TG(56:3)	2.2E-03	1.7E-03	3.8E-03	3.5E-03	3.3E-04	2.9E-04	7.7E-04	1.2E-03
TG(53:4)	2.2E-03	2.5E-03	2.2E-03	2.8E-03	3.7E-04	2.6E-04	1.8E-04	8.6E-04
TG(53:4)	2.2E-03	2.3E-03	4.7E-03	4.1E-03	3.8E-04	7.1E-04	2.1E-04	1.1E-03
TG(53:3)	2.1E-03	2.4E-03	3.4E-03	3.5E-03	3.9E-04	1.5E-04	2.0E-04	1.1E-03
TG(44:5)	2.0E-03	2.5E-03	2.3E-03	2.5E-03	1.9E-04	7.5E-04	5.3E-04	4.0E-04
TG(50:0)	2.0E-03	2.4E-03	3.2E-03	2.7E-03	6.7E-04	1.3E-03	3.4E-04	9.5E-04
TG(51:4)	2.0E-03	2.7E-03	2.8E-03	1.8E-03	4.4E-04	2.2E-04	5.3E-04	3.6E-04
TG(51:4)	1.9E-03	1.8E-03	3.6E-03	4.2E-03	3.3E-04	1.8E-04	5.2E-04	1.6E-03
TG(16:0/18:1/16:0)	1.9E-03	4.4E-03	2.3E-03	4.5E-03	3.8E-04	6.1E-04	3.2E-04	1.4E-03
TG(39:1)	1.7E-03	1.1E-03	3.6E-03	3.5E-03	4.6E-04	2.9E-04	6.7E-04	4.7E-04
TG(54:1)*	1.6E-03	1.5E-03	2.6E-03	2.8E-03	1.6E-04	4.1E-04	3.4E-04	5.2E-04

TG(41:1)	1.6E-03	1.2E-03	3.8E-03	3.0E-03	3.5E-04	3.2E-04	6.0E-04	1.0E-03
TG(58:3)	1.5E-03	1.7E-03	3.1E-03	3.1E-03	1.7E-04	5.7E-04	2.0E-04	8.5E-04
TG(55:4)	1.4E-03	1.7E-03	2.7E-03	2.4E-03	4.0E-04	1.8E-04	3.9E-04	7.4E-04
TG(58:2)	1.4E-03	1.7E-03	2.9E-03	3.8E-03	2.9E-05	1.9E-04	1.9E-04	5.9E-04
TG(41:2)	1.3E-03	7.1E-04	2.9E-03	2.2E-03	3.9E-04	1.2E-04	1.2E-03	4.0E-04
TG(50:2)	1.3E-03	1.5E-03	2.1E-03	2.1E-03	2.4E-05	7.4E-04	3.3E-04	3.7E-04
TG(49:0)*	1.1E-03	1.5E-03	2.4E-03	1.9E-03	6.9E-05	1.3E-03	2.1E-04	9.5E-04
TG(47:4)	1.1E-03	2.3E-03	1.7E-03	2.9E-03	1.7E-04	3.7E-04	4.6E-04	6.7E-04
TG(47:3)	9.5E-04	9.3E-04	1.8E-03	2.2E-03	1.5E-04	1.2E-04	1.8E-04	7.3E-04
TG(43:2)	8.7E-04	6.1E-04	2.5E-03	1.9E-03	5.6E-05	1.1E-04	2.3E-04	3.1E-04