

Table S3. Yw Strain Male Diet Response Surfaces Raw Data

	Yeast g·dl ⁻¹	2.5 g·dl ⁻¹ Sugar			5 g·dl ⁻¹ Sugar			10 g·dl ⁻¹ Sugar			20 g·dl ⁻¹ Sugar			40 g·dl ⁻¹ Sugar		
		mean	s.e.	n	mean	s.e.	n	mean	s.e.	n	mean	s.e.	n	mean	s.e.	n
TAG/fly (µg)	40	1.2	0.34	10	2.0	0.20	8	5.2	0.54	10	15.8	2.72	10	14.8	1.11	5
	20	3.3	0.29	10	1.9	0.16	10	8.1	1.40	10	8.4	0.31	11	12.6	0.69	10
	10	4.3	0.37	10	3.5	0.24	10	7.2	0.36	11	10.6	0.43	10	15.2	0.70	10
	5	5.2	0.60	9	3.8	0.24	10	8.1	0.38	10	11.1	0.39	10	16.0	0.86	10
	2.5	4.8	0.47	10	4.8	0.50	11	7.6	0.41	12	13.6	0.53	10	16.1	0.96	10
Prot./fly (µg)	40	50.3	2.04	10	50.0	1.91	8	52.3	1.41	10	53.7	1.17	10	45.9	2.14	5
	20	55.4	0.78	10	52.5	0.83	10	46.5	1.13	10	51.1	1.25	11	49.0	0.81	10
	10	51.8	2.86	10	49.1	1.51	10	45.9	0.67	11	48.5	1.34	10	45.7	0.80	10
	5	58.5	2.96	9	44.2	1.39	10	43.0	1.79	10	39.9	0.98	10	41.1	0.75	10
	2.5	55.4	1.27	10	41.6	1.41	11	42.7	2.03	12	36.0	1.10	10	40.3	1.90	10
(TAG/ Prot.)	40	0.03	0.01	10	0.04	0.00	8	0.10	0.01	10	0.30	0.06	10	0.32	0.01	5
	20	0.06	0.01	10	0.04	0.00	10	0.18	0.03	10	0.16	0.01	11	0.26	0.01	10
	10	0.08	0.01	10	0.07	0.01	10	0.16	0.01	11	0.22	0.01	10	0.33	0.01	10
	5	0.09	0.01	9	0.09	0.01	10	0.19	0.01	10	0.28	0.01	10	0.39	0.02	10
	2.5	0.09	0.01	10	0.12	0.02	11	0.18	0.01	12	0.38	0.02	10	0.41	0.03	10
Food/fly /6hr (µg)	40	7.0	1.2	10	2.5	0.8	5	18.0	1.4	10	18.9	1.0	10	22.4	0.8	5
	20	4.2	0.8	10	3.7	1.0	8	17.0	2.0	10	15.1	1.6	11	19.3	0.8	10
	10	5.5	0.6	10	4.6	1.2	10	18.1	0.6	11	17.7	0.7	10	26.7	0.7	10
	5	9.3	0.4	9	9.6	1.1	10	23.9	0.7	10	26.5	1.1	10	35.1	1.5	10
	2.5	26.1	1.9	10	39.8	2.5	11	29.6	3.2	12	36.9	1.8	10	49.7	3.7	10
calories/ fly/6hr	40	8.4E-03	1.4E-03	10	3.1E-03	9.4E-04	5	2.4E-02	1.8E-03	10	2.8E-02	1.5E-03	10	4.0E-02	1.5E-03	5
	20	3.1E-03	5.8E-04	10	3.0E-03	8.3E-04	8	1.6E-02	1.8E-03	10	1.7E-02	1.8E-03	11	2.9E-02	1.2E-03	10
	10	2.4E-03	2.7E-04	10	2.4E-03	6.1E-04	10	1.2E-02	4.2E-04	11	1.6E-02	6.2E-04	10	3.6E-02	8.9E-04	10
	5	2.6E-03	1.2E-04	9	3.5E-03	4.0E-04	10	1.2E-02	3.9E-04	10	2.1E-02	8.9E-04	10	4.4E-02	1.8E-03	10
	2.5	5.0E-03	3.7E-04	10	1.1E-02	7.1E-04	11	1.3E-02	1.4E-03	12	2.7E-02	1.3E-03	10	5.9E-02	4.4E-03	10

Summary of mean and standard error values obtained during 25 nutritional treatments of adult male, yw strain flies. Triglycerides (TAG) per fly, protein (Prot.) per fly, scaled triglycerides (TAG/Prot.), and food consumption data are representative of at least 2 independent trials. n represents the number of replicates per treatment, each replicate containing 8 flies.