

Table S2: Synonymous and Non-synonymous diversity for different categories of gene in all populations
 (red text indicates p<0.05 compared to control)

	<i>Drosophila melanogaster</i>							<i>Drosophila Simulans</i>		
	Greece	Japan	F. Pol.	Florida	Gabon	Kenya	All	Greece	Kenya	All
Synonymous Diversity $\times 10^{-2} \pi_s$										
Control	0.79	0.95	1.19	1.19	1.34	1.55	1.47	2.03	2.62	2.79
Immune	0.89	1.03	1.25	1.26	1.45	1.60	1.56	1.97	2.46	2.62
Humoral	0.80	1.01	1.17	1.19	1.43	1.53	1.50	2.07	2.62	2.79
Cellular	1.19	1.14	1.46	1.52	1.62	1.87	1.82	1.87	2.37	2.52
Melanisation	0.73	1.05	1.42	1.21	1.53	1.68	1.68	1.86	2.30	2.51
RNAi	0.39	0.49	0.70	0.61	0.66	0.80	0.71	0.90	1.02	1.07
Recognition (Cellular)	0.81	0.98	1.17	1.01	1.45	1.35	1.37	3.20	2.84	3.60
Recognition (Humoral)	1.22	1.25	1.63	1.55	1.53	1.78	1.71	1.85	2.27	2.47
Signalling	0.84	0.99	1.21	1.21	1.53	1.79	1.77	1.81	2.43	2.48
AMPs	0.64	1.38	1.03	1.34	1.75	1.30	1.35	2.28	2.84	2.94
Non-synonymous Diversity $\times 10^{-3} \pi_a$										
Control	0.89	1.03	1.27	1.21	1.51	1.63	1.78	1.53	2.06	2.20
Immune	1.31	1.32	1.56	1.69	1.96	1.95	1.94	1.77	2.35	2.48
Humoral	1.36	1.30	1.62	1.73	2.04	2.14	2.09	1.87	2.34	2.54
Cellular	1.37	1.48	1.50	1.77	1.91	1.67	1.70	1.68	2.63	2.60
Melanisation	1.16	1.58	1.06	1.19	1.39	1.26	1.26	1.69	1.73	2.06
RNAi	0.50	0.75	1.21	1.22	1.66	1.46	1.56	1.41	2.09	1.92
Recognition (Cellular)	1.21	1.61	1.77	1.43	1.75	2.30	2.29	1.91	2.14	2.35
Recognition (Humoral)	1.82	2.12	2.23	2.50	2.75	2.32	2.37	2.42	3.70	3.70
Signalling	0.65	0.74	0.78	0.76	1.02	1.01	1.05	0.97	1.33	1.38
AMPs	1.87	2.22	2.32	3.42	3.04	3.85	3.69	3.42	3.85	4.13