Supplementary Table 1: Biological categories of significant genes[32] ($P < 0.002$).

List of all genes that are significantly differentially expressed between Aggr and Neutr lines at Gen21 at a significance level of 0.002 arranged by biological function. Also included are: gene symbol and common name, fold up / down expression in Aggr lines and molecular function (if known). Some genes occur several times in this table..

Biological process	**Symbol**	**Common**	**Fold up in Aggr**	**Fold down in Aggr**	**Molecular function or domain**
immune response	Drs	Drosomycin	2.08		ion channel inhibitor bacterial response
	GNBP1	Gram-negative bacteria binding protein1		1.62	concanavilin A-like lectin, glycoside hydrolase
cuticle proteins	CG4784		1.20		structural constituent of insect cuticle
	CG2555			1.47	structural constituent of larval cuticle
	CG9295		1.38		structural constituent of insect cuticle
	Chit	Chitinase-like	1.17		glycoside hydrolase family18ChitinaseII
Calcium mediated signaling	CG31475		1.42		Calcium-binding EF-hand
	Cam	Calmodulin	1.16		Calcium ion sensing
	trpl	trp-like	1.12		cation (not K+) channel activity
	TpnC41C	Troponin C at 41C	1.43		calmodulin binding
muscle contraction	Mlc1	Myosin alkali light chain 1	1.37		peptidase, calcium-binding EF-hand
	TpnC41C	Troponin C at 41C	1.43		Calcium-binding EF-hand
	Cam	Calmodulin	1.16		Calcium sensing
cytoskeletal	CG10131		1.25		oxidoreductase cytoskelet activity
	CAP	Vinexin	1.20		vinculin binding, structural constituent of cytoskeleton,

					SH3, Sorbin-like
apoptosis	CG5333		1.27		programmed cell death protein2
	mub	mushroom-body expressed		1.29	K Homology domain type1, nucleic acid binding proteins
	CG1216		1.19		
channels & transporters	CG17646				ABC transporter, ATP-ase activity
	CG1216		1.19		voltage gated K channel
	CG10444			1.55	Na dependent multivitamin transporter
	CG3397		2.10		voltage gated K channel complex
neuronal function	SNAP	soluble NSF attachment protein	1.44		NSF attachment protein
	CG5195		1.48		DNA binding
	mfas		1.31		axogenesis
	Dh	Diuretic hormone		1.63	corticotropin releasing factor (neuropeptide signaling)
pheromone signaling	Obp56a	Odor-binding protein 56a		2.50	odor binding protein
	Cyp6a20	Cytochrome P450 6a20		1.46	cytochrome P450 E-class
circadian rhythm	vri	vrille		1.24	basic-leucine zipper transcription factor
transcription	Pif1	PFTAIRE-interacting factor 1A		1.24	basic-leucine zipper transcription factor
	CG32529				DNA binding, Bromo adjacent domain
	gce	germ-cell expressed bHLH PAS			bHLH-PAS
	CG5195		1.48		DNA binding
	CG17921	HMG protein Z	1.24		HMG1/2 box
	mub	mushroom-body expressed		1.29	KH domain
	vri	vrille		1.24	Basic-leucine zipper transcription factor
signaling	CG8942			1.34	Wnt protein binding, structural molecule activity, sugar binding
	Gbeta76C	G-protein beta subunit 76C	1.14		G-protein beta subunit
	CAP	Vinexin	1.20		vinculin binding, structural constituent of cytoskeleton, SH3, Sorbin-like
	Lk6			1.23	serine/threonine protein kinase
	kek4	kekkon 4		1.39	Leucine rich repeat
	mub	mushroom-body expressed		1.29	KH domain

chaperone	CG4461		1.20		HSP20-like chaperone
proteolysis	DppIII			1.13	dipeptidase
	Mlc1	Myosin alkali light chain 1	1.37		peptidase, calcium-binding EF-hand
protein phosphorylation	CG7378		1.35		dual specificty protein phosphatase
nitrogen compound metabolism	CG9836			1.19	nitrogen-fixing NifU-like
	CG7900		1.54		fatty acid hydrolase
aa metabolism	CG4802		1.16		purine phosphorylase family 2
	CG11899		1.61		aminotransferase class V, phosphoserine aminotransferase
sugar metab.	CG6910		1.14		oxidoreductase
	CG7997			1.12	glycoside hydrolase family 27, alpha galactosidase
	CG3752		1.23		aldehyde dehydrogenase (NAD) activity
	CG5955		1.47		UDP glucose-4 epimerase
	CG32444		1.53		aldose-1 epimerase activity
	Treh	Trahalase	1.35		glycoside hydrolase family 37
	Tal	Transaldolase	1.44		transaldolase
lipid metabolism	CG4825			1.66	phosphatidyl serine synthase
	wun	wunen	1.12		phosphoesterase
	CG10131		1.25		oxidoreductase cytoskelet activity
unknown	CG7529			1.36	carboxyl esterase activity
	alphaEst1	alpha-Esterase-1	1.34		carboxyl esterase activity
	alphaEst8	alpha-Esterase-8	1.53		carboxyl esterase activity
	CG10527		1.18		farnesoic acid O-methyl transferase activity
	CG32062			1.13	RNA binding
	CG13252			1.49	protease inhibitor, Von Willebrand factor typeC
	CG17533	Gutathion S-transferase E8	1.22		glutathion S-transferase
	CG2767		1.33		alcohol dehydrogenase NADP+ activity, aldo/keto reductase domain
unknown	CG18162		1.48		Unknown
	CG15201		1.17		Unknown
	CG31145				Unknown
	CG3955		1.23		Unknown
	CG10098			1.35	unknown
	CG1648		1.15		unknown
	CG4962		1.19		unknown
	CG5104		1.38		Unknown
	CG15449		1.35		Unknown

	CG1943		1.36		Unknown
	CG30492		1.09		Unknown
	CG7331		1.33		Unknown
	CG6852		1.36		Unknown
	CG18606		1.15		unknown
	CG11073		1.41		Unknown
	CG11458			1.98	Unknown
	CG16978		2.55		Unknown
	CG5498		1.36		unknown