

Supplementary Materials: RNA-Seq Analyses for Two Silkworm Strains Reveals Insight into Their Susceptibility and Resistance to *Beauveria bassiana* Infection

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Table S1. Classification of the differently expressed genes (DEGs).

DEG Class	Immersion		Injection		Description
	HY	K8	HY	K8	
Peptidase	6	4	21	5	Peptidase
Lipoprotein	6	7	10	4	Lepidopteran low molecular weight lipoprotein
Protease inhibitor (PI)	2	6	8	8	Protease inhibitor
Major facilitator superfamily (MFS)	4	0	11	4	Major facilitator superfamily
cuticle protein	8	4	6	8	cuticle protein
Antimicrobial peptide (AMP)AMP	9	1	7	10	antimicrobial peptide
Pheromone binding protein/general odorant binding protein (PBP/GOBP)	3	5	5	2	Insect pheromone/odorant binding protein
Kinase	3	1	4	6	kinase
Glycoside hydrolase	4	1	4	2	Glycoside hydrolase
Tubulin	3	0	6	8	tubulin
Lipase	3	1	8	1	Lipase
Short-chain dehydrogenase/reductase (SDR)	0	0	6	2	Short-chain dehydrogenase/reductase
Cytochrome P450	0	0	3	4	Cytochrome P450
Immunoglobulin (Ig)	1	0	5	3	Immunoglobulin
Heat shock protein (HSP)	3	2	2	3	Heat shock protein
Zinc finger	0	0	4	2	Zinc finger
Cytochrome	1	0	1	3	Cytochrome
Cellular retinaldehyde-binding protein	0	0	4	1	Cellular retinaldehyde-binding protein
Carboxylesterase	0	0	3	3	Carboxylesterase
Glycosyl hydrolase	2	0	2	1	Glycosyl hydrolase
Epidermal growth factor (EGF)	0	0	3	3	Epidermal growth factor
Chorion protein	1	1	4	3	chorion protein
Chitin binding Peritrophin-A	2	1	0	2	Chitin binding Peritrophin-A
ATPase	1	0	2	2	ATPase
Peptidoglycan recognition protein (PGRP)	1	1	1	1	Peptidoglycan recognition protein
Juvenile hormone	2	0	1	0	juvenile hormone
Storage protein	0	2	1	1	Storage protein
Haem peroxidase	0	2	0	3	Haem peroxidase
Cyclin	1	1	3	2	Cyclin
Transketolase	2	0	0	0	Transketolase
Sterile	0	0	2	0	Sterile
Ribosomal protein	0	0	1	1	Ribosomal protein
Fibronectin	1	0	1	0	Fibronectin
Fibroin	0	0	0	2	fibroin
Ecdysone oxidase	0	1	0	2	Ecdysone oxidase
Dynein light chain LC8-type (DYNLL)	0	0	1	1	dynein light chain LC8-type
Cytosolic fatty-acid binding	0	0	2	0	Cytosolic fatty-acid binding
C-type lectin	0	0	1	1	C-type lectin
Caspase	0	0	1	1	caspase
Carbonic anhydrase	0	0	2	1	Carbonic anhydrase
Aminotransferase	0	0	1	1	Aminotransferase
Aldehyde dehydrogenase	0	0	1	1	Aldehyde dehydrogenase
Acyltransferase	0	0	2	1	Acyltransferase

Table S2. Quantitative reverse transcription PCR (qRT-PCR) primers and results.**Table S3.** List of differentially expressed genes.**Table S4.** Results of Kyoto Encyclopedia of Genes and Genomes (KEGG) pathway enrichment analysis.

	HY-CK-1	HY-CK-2	HY-CK-3	HY-imm-1	HY-imm-2	HY-imm-3	HY-stab-1	HY-stab-2	K8-CK-1	K8-CK-2	K8-CK-3	K8-imm-1	K8-imm-2	K8-imm-3	K8-stab-1	K8-stab-2
HY-CK-1	1	0.92	0.91	0.95	0.89	0.91	0.89	0.88	0.87	0.74	0.84	0.86	0.85	0.81	0.82	0.85
HY-CK-2	0.92	1	0.98	0.9	0.85	0.97	0.93	0.92	0.89	0.83	0.87	0.89	0.89	0.87	0.86	0.84
HY-CK-3	0.91	0.98	1	0.85	0.81	0.95	0.93	0.94	0.88	0.86	0.89	0.86	0.87	0.88	0.85	0.86
HY-imm-1	0.95	0.9	0.85	1	0.94	0.92	0.86	0.81	0.89	0.67	0.81	0.9	0.89	0.78	0.84	0.83
HY-imm-2	0.89	0.85	0.81	0.94	1	0.88	0.88	0.77	0.92	0.65	0.81	0.93	0.94	0.79	0.86	0.84
HY-imm-3	0.91	0.97	0.95	0.92	0.88	1	0.94	0.93	0.93	0.85	0.92	0.93	0.89	0.91	0.9	0.87
HY-stab-1	0.89	0.93	0.93	0.86	0.88	0.94	1	0.94	0.92	0.81	0.89	0.92	0.89	0.89	0.92	0.89
HY-stab-2	0.88	0.92	0.94	0.81	0.77	0.93	0.94	1	0.86	0.93	0.93	0.83	0.8	0.93	0.84	0.87
K8-CK-1	0.87	0.89	0.88	0.89	0.92	0.93	0.92	0.86	1	0.78	0.9	0.99	0.93	0.89	0.95	0.89
K8-CK-2	0.74	0.83	0.86	0.67	0.65	0.85	0.81	0.93	0.78	1	0.95	0.75	0.71	0.95	0.74	0.81
K8-CK-3	0.84	0.87	0.89	0.81	0.81	0.92	0.89	0.93	0.9	0.95	1	0.88	0.85	0.99	0.89	0.94
K8-imm-1	0.86	0.89	0.86	0.9	0.93	0.93	0.92	0.83	0.99	0.75	0.88	1	0.95	0.88	0.94	0.87
K8-imm-2	0.85	0.89	0.87	0.89	0.94	0.89	0.89	0.8	0.93	0.71	0.85	0.95	1	0.84	0.91	0.88
K8-imm-3	0.81	0.87	0.88	0.78	0.79	0.91	0.89	0.93	0.89	0.95	0.99	0.88	0.84	1	0.89	0.92
K8-stab-1	0.82	0.86	0.85	0.84	0.86	0.9	0.92	0.84	0.95	0.74	0.89	0.94	0.91	0.89	1	0.94
K8-stab-2	0.85	0.84	0.86	0.83	0.84	0.87	0.89	0.87	0.89	0.81	0.94	0.87	0.88	0.92	0.94	1

Figure S1. Pearson correlation among samples. Different colors indicate the degree of correlation among samples.

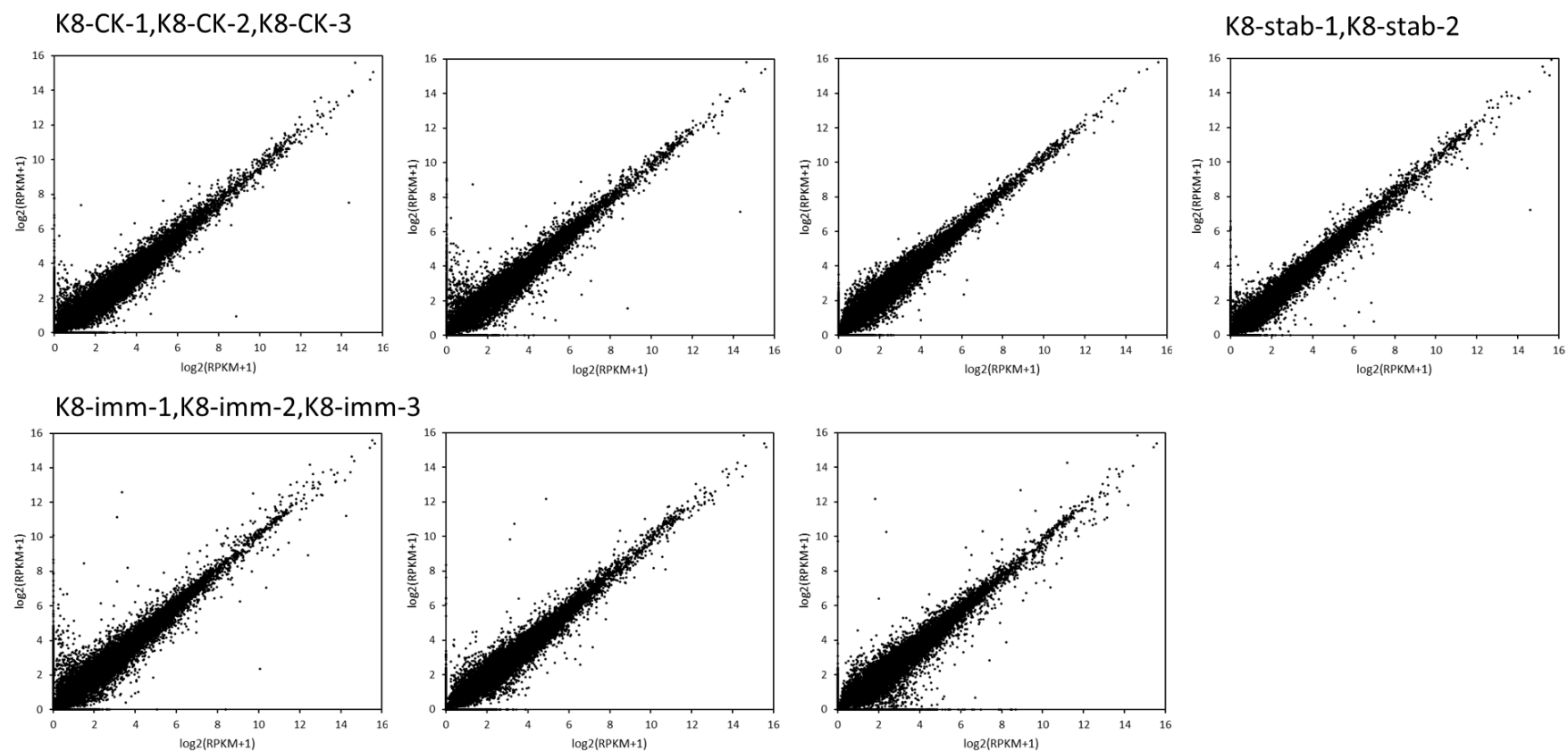


Figure 2. Cont.

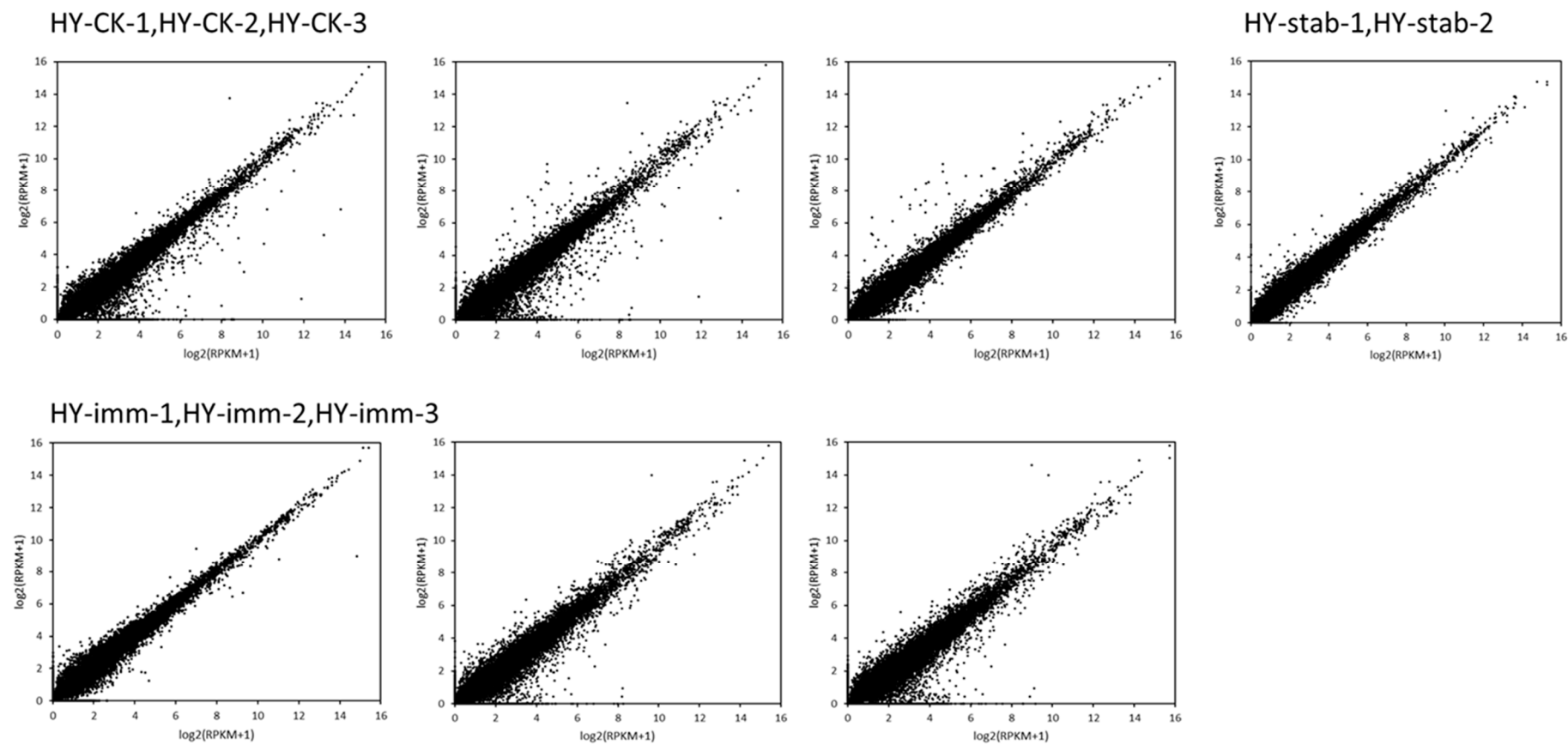


Figure S2. Scatter plot of gene expression of biological repeats.