

Table S2: Statistically significant ($p < 1/n$) differential expression of immune related genes (based on previous homology assignments [34] in house and forager honeybees treated with *M. anisopliae* s.l. Numbers in columns refer to fold change ($\log_2$) in gene expression.

Gene name	Official name	Gene family / pathway	House bees	Forager bees	Controls (uninfected bees)
			uninfected → infected	uninfected → infected	House → forager
abaecin	GB18323	AMP	4.13		3.68
Defensin-2	GB10036	AMP	4.97		
Hymenoptaecin	GB17538	AMP	6.39		
Hemolectin	GB16711	Cellular response	-0.44		
Hemomucin	GB20003	Cellular response			0.55
CTL1	GB11717	C-lectin domain			-2.18
CTL2	GB14265	C-lectin domain	0.54	-0.47	0.98
CTL3	GB18049	C-lectin domain			-2.27
CTL4	GB20122	C-lectin domain			-2.11
CTL6	GB11792	C-lectin domain			-1.25
CTL7	GB14975	C-lectin domain			-1.84
CTL9	GB15050	C-lectin domain			-2.36
Angiopoietin	GB17018	Fibrinogen	0.61		-1.28
Scabrous	GB11902	Fibrinogen	0.37		0.67
B-gluc2	GB19961	GNBPs	1.91		3.28
IGFn3-11	GB12490	IG Superfamily Genes			-1.51
IGFn3-15	GB15344	IG Superfamily Genes			-0.41
IGFn3-2	GB11358	IG Superfamily Genes		0.52	-1.49
IGFn3-7	GB11846	IG Superfamily Genes			-0.60
dUbc13	GB19498	IMD			0.49
lap2	GB11057	IMD			0.48
relish	GB13742	IMD	0.58		
Tab	GB18650	IMD	-0.29		
Tak1	GB14664	IMD	-0.48		
Domeless	GB12159	JakSTAT	0.91		
D-PIAS	GB18362	JakSTAT	0.28		0.46
SOCS	GB18949	JakSTAT	0.23		
RIP1	GB11320	MAPK	0.50		
NimA	GB12883	Phagocytosis			-0.88
NimB	GB12454	Phagocytosis			1.24
NimC2	GB13979	Phagocytosis	-1.18		
PGRP-S1	GB15371	PGRP	-1.22		1.23
PGRP-S2	GB19301	PGRP	3.43		2.26
PGRP-S3	GB17879	PGRP	-0.88		2.36
PPO	GB18313	PPO			-1.76

PPOAct / SP8	GB18767	PPO / serine protease	-1.70		
GRAAL/Tequila-like / SP23	GB12538	Scav. Receptor A / serine protease			1.23
AmSCR-B10	GB19683	Scav. Receptor B	-0.63		
AmSCR-B8	GB16388	Scav. Receptor B	-0.73		
AmSCR-B9	GB19916	Scav. Receptor B	-0.69		0.67
AmSCR-C	GB19925	Scav. Receptor C	-1.68		
cSP1	GB16147	serine proteases			1.30
cSP2	GB14247	serine proteases			1.71
cSP7	GB17145	serine proteases			2.13
cSPH42	GB11298	serine proteases			1.26
SP16	GB12253	serine proteases	0.59		
SP23	GB12538	serine proteases			1.23
SP24	GB14233	serine proteases			-0.68
SP28	GB13489	serine proteases			2.66
SP34	GB11552	serine proteases			-5.71
SP35	GB16021	serine proteases			2.15
SP38	GB16214	serine proteases			1.56
SP45	GB17654	serine proteases	-0.84		-1.22
SP46	GB16367	serine proteases	0.64		
SP49	GB15317	serine proteases			1.67
SP8	GB18767	serine proteases	-1.70		
SPH19	GB17345	serine proteases	-0.95		
TEP7	GB12605	TEP			1.21
cact-1	GB10655	Toll/TLR			0.41
cact-2	GB13520	Toll/TLR			0.81
dorsal-1A	GB19066	Toll/TLR	0.30		
Dorsal-1B	GB19537	Toll/TLR			-0.63
Mik2	GB14720	Toll/TLR	0.31		
NEC LIKE	GB16472	Toll/TLR	1.69		2.73
NEC LIKE	GB17012	Toll/TLR	-0.34		
NEC LIKE	GB19582	Toll/TLR			1.28
pelle	GB16397	Toll/TLR			0.44
PSH LIKE / CSP14	GB14044	Toll/TLR/ serine protease	0.67		1.39
PSH LIKE / SP13	GB15640	Toll/TLR / serine protease			0.56
Toll (TLR)	GB18520	Toll/TLR	0.81		1.03