

## ***Aspergillus fumigatus* responds to natural killer (NK) cells with upregulation of stress related genes and inhibits the immunoregulatory function of NK cells**

### **Supplementary Material**

Supplementary Table 1: Human NK cell genes and primers for qRT-PCR

<b>gene</b>	<b>gene Bank no.</b>	<b>ID</b>	<b>primer sequence (5'-3')</b>	<b>amplicon size (bp)</b>
glyceraldehyde 3-phosphate dehydrogenase ( <i>GAPDH</i> )	NM_002046.3	GAPDH_for GAPDH_rev	AGC CAC ATC GCT CAG ACA C GCC CAA TAC GAC CAA ATC C	66
perforin ( <i>PRF1</i> )	NM_005041.4	Perf_for Perf_rev	CAT CTG TGT AGC CGC TTC TCT GCA GCA GCA GGA GAA GGA T	81
granzyme B ( <i>GZMB</i> )	NM_004131.4	GZMB_for GZMB_rev	GAG ACG ACT TCG TGC TGA CA GAG ACG ACT TCG TGC TGA CA	122
interferon-gamma ( <i>IFNG</i> )	NM_000619	IFNg_for IFNg_rev	GGC ATT TTG AAG AAT TGG AAA G TTT GGA TGC TCT GGT CAT CTT	112
granulocyte-macrophage colony stimulating factor ( <i>GMCSF</i> )	NM_000758.3	GMCSF_for GMCSF_rev	CAA ACA TTT CTG AGA TGA CTT CTA CTG GTC CTC GGA TGC TAA CCT CTA C	109
macrohage inflammatory protein 1 $\alpha$ ( <i>MIP1A</i> )	NM_002983.2	CCL3_for CCL3_rev	GGC TCT CTG CAA CCA GTT CT AAT CTG CCG GGA GGT GTA G	82
macrohage inflammatory protein 1 $\beta$ ( <i>MIP1B</i> )	NM_002984.2	CCL4_for CCL4_rev	CTC TCC AGC GCT CTC AGC ACC ACA AAG TTG CGA GGA AG	93

Supplementary Table 2: *Aspergillus fumigatus* genes and primers for qRT-PCR

gene	gene locus	ID	primer sequence (5'-3')	amplicon size (bp)
beta tubulin ( <i>TUBB</i> )	AFUA_7G00250	tub1-f tub1-r	CTG TCG GTC CAC CAG TTG GGT TGA GAT CGC CGT ACG	122
heat shock protein 70 ( <i>hsp70</i> )	AFUA_1G07440	hsp70-f hsp70-r	AGG TCA AGG CTA CCG CTG AGA GCA CGT GCG TTG GTG	127
heat shock protein 90 ( <i>hsp90</i> )	AFUA_6G04830	hsp90-f hsp90-r	TAC TGG TGG GTC ATT CTC TG CTT GCG TTG GCC AGC TTG	134
ferric chelate reductase ( <i>freB</i> )	AFUA_1G17270	freB-f freB-r	AGC ATC GTG CTC TGC CTG AAG AGA GGA TCC CGG TGC	112
alkaline protease 1 ( <i>alp1</i> )	AFUA_4G11800	alp1-f alp1-r	TTC TGT CGT CGC TGC TGG AGT TGG AGA AGG AGG CGC	122
dipeptidyl peptidase IV ( <i>dppIV</i> )	AFUA_4G09320	dppIV-f dppIV-r	GTG CTC TGG GCT ACC AAC GAG CGT ACT GGA TGT CGC	130
dipeptidyl peptidase V ( <i>dppV</i> )	AFUA_2G09030	dppV-f dppV-r	GGA CGC GAA GGT CTC AAC AAC TGG AGG ATC CGC TCG	123
superoxide dismutase 1 ( <i>sod1</i> )	AFUA_5G09240	sod1-f sod1-r	CGT GGC TTC CAT GTC CAC CCA AGG TCA CCG ACA TGG	128
superoxide dismutase 2 ( <i>sod2</i> )	AFUA_4G11580	sod2-f sod2-r	GCT TGG CTT GTC AGG GAC TAA GCA TGC TCC CAG GCG	118
superoxide dismutase 3 ( <i>sod3</i> )	AFUA_1G14550	sod3-f sod3-r	ACC AGG ATC CGG TGA CCG GTT CCA GAT GCC CTT GGC	113
catalase 1 ( <i>cat1</i> )	AFUA_3G02270	cat1-f cat1-r	CTG GCC CGT GAT GT TCA C ACG GCG TGG ATC AGA TCG	131
catalase 2 ( <i>cat2</i> )	AFUA_6G03890	cat2-f cat2-r	CGA ATG ACC GCC GAA CTG TTC CGA ATG CGC CAG TGC	126
cytochrome C ( <i>cycA</i> )	AFUA_2G13110	cycA-f cycA-r	AGG GAT ACG CCT ACA CCG GCC TTC TTC AGA CCA CCG	133
mitogillin ( <i>mgl</i> )	AFUA_5G02330	mgl-f mgl-r	CCA CAG CCG TGT CTG TTC CTG TAT AGA AGC CGC TTG TC	121
gliotoxin ( <i>gliT</i> )	AFUA_6G09740	gliT-f gliT-r	GAT GTC GCC AAG ACC GTC TCA AGG CGA GCT GCT TGG	118