

Differential responses of chicken monocyte-derived dendritic cells infected with *Salmonella* Gallinarum and *Salmonella* Typhimurium

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Supplementary Table 1. List of primers with their sequences and annealing temperature used for quantification of various immune response genes by real-time PCR

S. No.	Gene	Oligo Sequences	Annealing temp (°C)	Accession No.
1	CD14	F- GGGGGGACCTGGAGAAATA R- AGGAGAAGAACCGCAGGA	54	NM_001139478
2	CD40	F-AACGCAACGCACAACACTG R-GTCCCTTTCACCTTCACCACA	57	EF554721.1
3	CD80	F-CAGCAAGCCGAACATAGAAAGA R-AGCAAACCTGGTGGACCTGAGAA	57	EF554723.1
4	CD83	F-GCCTACACTCTACTCTTCACCCTG R-TATTCTGTGCGCCAACCTCC	47	XM_040663657.1
5	CD86	F-TGTAGGGATTG GGATGAGGG R-CGCTGGAAGAGCAGGAAAGAT	57	EF554724.1
6	MHC II α	F-GGGGTTTACGACAGCGTCTATT R-TTCCGGGTCCCACATCCT	55	AY357256.1
7	TLR4	F-CCATCCACTCAGACAACCTTTCGA R-AGTAAACGCAGCAGCACGCG	60	AY064697
8	TLR 21	F- GCAGCTCAGCCGCTCTTTT R-CCTTCTTCTTCTCCTCCTCT CC	55	NM_001030558.1
9	TNF- α	F-AGCTCTTTTGTG CCTGTTTATTTT R-AAGCTTCAGTATGGGTTTAGAGA	53	NM_204267.1
10	IL-1 β	F-AACATCGCCACCTACAAG R-GACGGTAATGAAACATAAACG	54	AJ245728
11	IL-6	F-GCTCGCCGGCTTCGA R-GTAGGTCTGAAAGGCGAACAG	54	AJ309540.1
12	IL- 12 α	F-TGGCCGCTGCAAACG R-ACCTCTTCAAGGGTGCACTCA	51	NM_213588.1
13	IFN- γ	F-AAGTCAAAGCCGCACATCAAACC R-TGGATTCTCAAGTCGTTTCATCG	54	DQ906156
14	IL-4	F-AACATGCGTCAGCTCCTGAAT R-CTGCTAGGAACTTCTCCATTGAA	60	AJ621249.1
15	IL-10	F-CATGCTGCTGGGCCTGAA R-CGTCTCCTTGATCTGCTTGATG	59	AJ621254.1
16	CXCLi 1	F-CCAGTGCATAGAGACTCATTCCAAA R-TGCCATCTTTCAGAGTAGCTATGACT	57	NM_205018.1
17	CXCLi 2	F-GCCCTCCTCCTGGTTTC R-TGGCACCGCAGCTCATT	54	NM_205498.1
18	Beta-actin	F-GCACCACACTTTCTACAATGAG R-ACGACCAGAGGCATACAGG	59	NM_205518

Supplementary Table 2. Fold change expression of surface markers (Mean $\pm$ S.E.) following infection with *S. Gallinarum* and *S. Typhimurium* at 6 and 24 h post-infection. Different superscripts (a,b,c) across the columns denotes significant difference.

Co-stimulatory molecules	ST-6 h	SG-6 h	ST-24 h	SG-24 h
CD40	28.1 $\pm$ 0.30 ^c	1.11 $\pm$ 0.53 ^a	5.59 $\pm$ 0.36 ^b	7.76 $\pm$ 0.64 ^{bc}
CD80	97 $\pm$ 0.68 ^b	16.6 $\pm$ 0.19 ^a	3.24 $\pm$ 0.42 ^a	9.18 $\pm$ 0.68 ^a
CD83	48.6 $\pm$ 0.39 ^c	1.19 $\pm$ 0.17 ^a	3.19 $\pm$ 0.25 ^{ab}	11.08 $\pm$ 0.92 ^b
CD86	19.29 $\pm$ 0.30 ^c	1.13 $\pm$ 0.41 ^a	6.0 $\pm$ 0.36 ^b	7.02 $\pm$ 0.30 ^{bc}
MHC-II	14.4 $\pm$ 0.36 ^b	1.58 $\pm$ 0.37 ^a	4.94 $\pm$ 0.49 ^{ab}	6.60 $\pm$ 0.98 ^{ab}

ST-6 h & ST-24 h = *S. Typhimurium* at 6 h and 24 h post-infection; SG-6 h & SG-24 h = *S. Gallinarum* at 6 h and 24 h post-infection

Supplementary Table 3. Fold change expression of TLRs mRNA (Mean $\pm$ S.E.) following infection with *S. Gallinarum* and *S. Typhimurium* at 6 and 24 h post-infection. Different superscripts (a,b,c) across the columns denotes significant difference.

TLRs	ST-6 h	SG-6 h	ST-24 h	SG-24 h
TLR-4	10.77 $\pm$ 0.33 ^b	0.66 $\pm$ 0.42 ^a	1.83 $\pm$ 0.06 ^a	6.82 $\pm$ 0.50 ^b
TLR-21	15.1 $\pm$ 0.19 ^b	0.32 $\pm$ 0.14 ^a	1.94 $\pm$ 0.56 ^a	2.50 $\pm$ 1.26 ^{ab}

ST-6 h & ST-24 h = *S. Typhimurium* at 6 h and 24 h post-infection; SG-6 h & SG-24 h = *S. Gallinarum* at 6 h and 24 h post-infection

Supplementary Table 4. Fold change expression of cytokines and chemokines mRNA (Mean $\pm$ S.E.) following infection with *S. Gallinarum* and *S. Typhimurium* at 6 and 24 h post-infection. Different superscripts (a,b,c) across the columns denotes significant difference.

Cytokines and Chemokines	ST-6h	SG-6h	ST-24h	SG-24h
IL-1 β	444.6 $\pm$ 0.26 ^b	636.1 $\pm$ 0.46 ^b	17.7 $\pm$ 0.43 ^a	33.90 $\pm$ 0.38 ^a
IL-6	11.55 $\pm$ 0.39 ^b	26.9 $\pm$ 0.21 ^b	2.1 $\pm$ 0.59 ^a	13.39 $\pm$ 0.55 ^b
TNF- α	21.8 $\pm$ 0.17 ^c	0.2 $\pm$ 0.02 ^a	0.31 $\pm$ 0.029 ^a	4.18 $\pm$ 0.47 ^b
IFN- γ	1.74 $\pm$ 0.36 ^b	0.005 $\pm$ 0.003	0.003 $\pm$ 0.006 ^a	1.06 $\pm$ 0.47 ^b
IL-12	8.45 $\pm$ 0.27 ^b	0.16 $\pm$ 0.067 ^a	0.43 $\pm$ 0.06 ^a	3.48 $\pm$ 0.33 ^b
IL-10	9.96 $\pm$ 0.22 ^b	0.39 $\pm$ 0.16 ^a	3.26 $\pm$ 1.06 ^b	11.55 $\pm$ 0.36 ^b
CXCLi1	18.37 $\pm$ 0.72 ^b	0.69 $\pm$ 0.068 ^a	7.12 $\pm$ 1.18 ^{ab}	17.79 $\pm$ 0.31 ^b
CXCLi2	1.15 $\pm$ 0.51 ^a	7.31 $\pm$ 0.17 ^b	0.45 $\pm$ 0.19 ^a	1.24 $\pm$ 0.53 ^a
IL-4	85.42 $\pm$ 0.25 ^c	1.33 $\pm$ 0.05 ^a	6.71 $\pm$ 0.21 ^b	7.88 $\pm$ 0.43 ^b

ST-6 h & ST-24 h = *S. Typhimurium* at 6 h and 24 h post-infection; SG-6 h & SG-24 h = *S. Gallinarum* at 6 h and 24 h post-infection

Supplementary Fig. 1. Intracellular survival and cytotoxicity of *S. Gallinarum* and *S. Typhimurium* in chicken dendritic cells (chMoDCs) at 3h and 48h post-infection. The correlation plot for intracellular bacterial survival and cytotoxicity; a) scattered plot matrix for *S. Typhimurium* (ST), b) scattered plot matrix for *S. Gallinarum* (SG), c) Scattered plot showing significant positive correlation between intracellular survival and cytotoxicity for *S. Gallinarum* (SG) at 48h post-infection (**p* < 0.05).

