Supplemental material

Supplementary Table 1. Primer sequences for quantitative real-time PCR

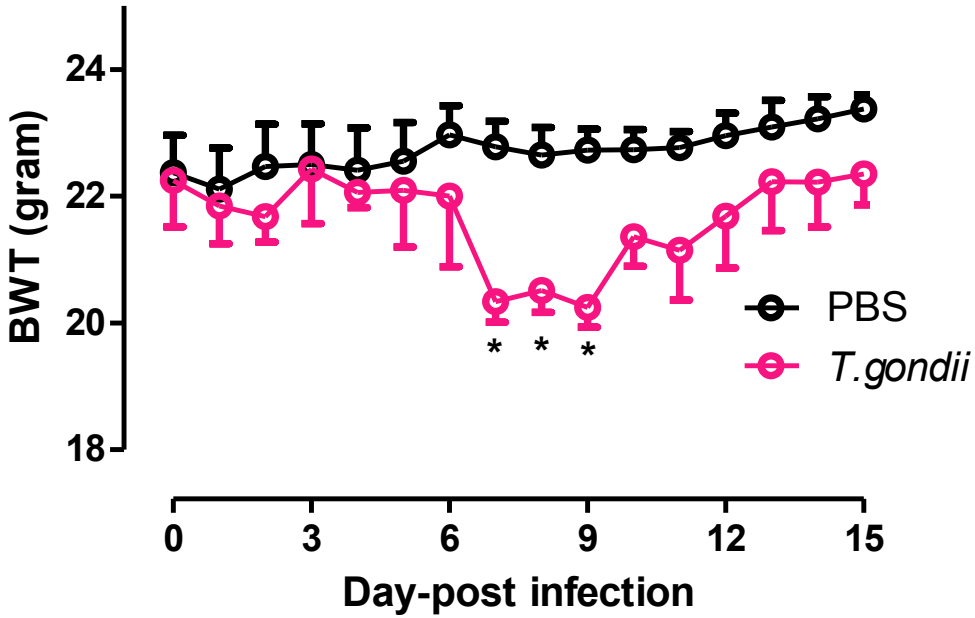
ELISA proteins (pg/ml	Forward Primer (5'----- 3')	Reverse Primer (5'----- 3')	Accession number
IL-1 β	CCAAAAGATGAAGGGCTGCT	TCATCTGGACAGCCCAGGTC	NM_008361.3
TNF-α	GGCAGGTCTACTTTGGAGTCATTGC	ACATTCGAGGCTCCAGTGAA	D84199.2
IFN-γ	AGCTCATCCGAGTGGTCCAC	GCTTCCTGAGGCTGGATTCC	NM_008337.3
IDO1	ACACTGAGCACGGACGGACT	GTGTGCCAGGCGCTGTAAC	NM_008324.1
IDO2	ACACTGAGCACGGACGGACT	GTGTGCCAGGCGCTGTAAC	NM_145949.2
GAPDH	GGAGGCCACACTGCTGATTTA	CCTGCTTCACCACCTTCTTGAT	GU214026.1

Abbreviations: IL; interleukin, TNF; tumor necrosis factor; IFN, interferon, IDO; indoleamine 2, 3 dioxygenase.

Supplementary Table 2. Pearson's correlation coefficients for the percentage of sucrose preference or immobility duration or immobility duration and levels of cytokine and Kyn/Trp ratio

	Sucrose preference (r)	**Immobility duration (r)**
IL-1β	-0.438 **	0.669 **
TNF-α	-0.253	0.595 **
IFN-γ	-0.748 ***	0.776 ***
IDO1	-0.246	0.551 **
IDO2	-0.280	0.558 **
Plasma Kyn/Trp	-0.322 *	0.576 **
Brain Kyn/Trp	-0.305 *	0.551 **

Each value represents the correlation coefficient (Pearson's r): ***, $|r| = 0.70$, strong correlation; **, $0.5 < |r| < 0.7$, moderately strong correlation; and *, $|r| = 0.3–0.5$, weak to moderate correlation. The samples from the experiments using Mino (N=6), IFN-γ-/- mice (N=5) and 1-MT (N=6) were used to calculate the r value.

Figure legends

Supplementary Figure 1. Body weight (grams) were measured started from 0 day post infection (dpi) to 15 dpi. Data are presented as mean ± SD ($F_{(1, 128)}$ = 1.86, P=0.033). *, indicates significant difference between groups analyzed by Two-way ANOVA plus Bonferroni *post hoc* test.