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Title: Differences in expression of genes in the *MyD88* and *TRIF* signalling pathways and methylation of *TLR4* and *TRIF* in Tibetan chickens and DaHeng S03 chickens infected with *Salmonella enterica* serovar Enteritidis

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**Differences in expression of genes in the *MyD88* and *TRIF* signalling pathways
and methylation of *TLR4* and *TRIF* in Tibetan chickens and DaHeng S03
chickens infected with *Salmonella enterica* serovar Enteritidis**

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Highlights

- • Tibetan chicken line is resistant to *S. Enteritidis* infection while DaHeng S03 chicken line is susceptible.
- • MyD88-dependent and TRIF-dependent signalling pathway can be activated and the *MyD88* signalling pathway induced cytokines *LITAF* and *IL-8* play important roles in fighting against the *S. Enteritidis* infection *in vivo*.
- • Enhanced TLR4 methylation level is related to reduced expression of genes in the *MyD88* signalling pathway in chickens which are susceptible to *S. Enteritidis* infection comparing to resistant ones.
- • The expression of INF β is different in levels of mRNA and protein in Tibetan chickens and DaHeng chickens, suggesting INF β functions on the resistance to *S. enteritidis* infection in chickens.

*Xiaocheng Li and Peng Zhang contributed equally to this study.

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