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**Effect of Marek's disease vaccines on interferon and toll like receptors when administered  
in ovo**

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**Highlights**

- The effect of in ovo vaccination with MD on the transcription of IFN, IFN receptors and TLR (3, 7, and 21) was influenced by the vaccine (HVT or CVI988) and the tissue evaluated (spleen, bursa, or thymus)
- HVT increased IFN- $\gamma$  and TLR-3 transcripts in the spleen and lung
- CVI988 downregulated several of the studied genes and only upregulated TLR-21 in the spleen

**Abstract**

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