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Title: Toll-like receptor (TLR)4 signalling induces myeloid differentiation primary response gene (MYD) 88 independent pathway in avian species leading to type I interferon production and antiviral response



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ACCEPTED MANUSCRIPT

Toll-like receptor (TLR)4 signalling induces myeloid differentiation primary response gene (MYD) 88 independent pathway in avian species leading to type I interferon production and antiviral response

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Highlights

- Chicken toll-like receptor 4 signaling leads to type I interferon (IFN) production
- Lipopolysaccharide (LPS) induces type I IFN production in chicken macrophages
- LPS-mediated antiviral response is attributable to type I IFNs and nitric oxide

Abstract

Engagement of toll-like receptor (TLR)4 ligand, lipopolysaccharide (LPS) with TLR4 in mammals activates two downstream intracellular signaling routes; the myeloid differentiation

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