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Chicken bone marrow-derived dendritic cells induced by a Salmonella vaccine candidate

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We aimed to evaluate immune-stimulatory effect of *Salmonella enteritidis* ghost vaccine on maturation of chicken bone marrow-derived dendritic cells (BM-DCs) *in vitro*. The immature BM-DCs were stimulated with vaccine. The vaccine efficiently stimulated maturation events in BM-DCs, indicated by up-regulated expression of CD40, CD80 and MHC-II molecules. Immature BM-DCs responded to stimulation with vaccine by expression of TNF-α, IL-6 and IL-12 cytokines. In addition, vaccine stimulated BM-DCs could induce significant expression of IFN-γ and IL-2 in co-culture with autologous lymphocytes. In conclusion, our data suggest that vaccine candidate is capable of activating DCs for modulation of adaptive immune responses.

Biography

John Hwa Lee is a professor and Dean at the Chonbuk National University, College of Veterinary Medicine, South Korea. He has a Ph.D. in Veterinary Pathobiology, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, USA. He is an Editorial Board for Food borne Pathogens and Disease and Associate Editor for Journal of Veterinary Science.

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