

# Serotype a of *Aggregatibacter actinomycetemcomitans* down-regulates the increased serotype b-induced cytokine and chemokine production in dendritic cells

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© 2018 Elsevier Ltd Objective: In *Aggregatibacter actinomycetemcomitans*, different serotypes have been described based on LPS antigenicity. Mixed infection with the different A.

*actinomycetemcomitans* serotypes is frequent in periodontitis patients; accordingly, the role of this bacterial species in the pathogenesis of periodontitis may differ depending whether patients or periodontal lesions harbour one or more of the A. *actinomycetemcomitans* serotypes. We hypothesized that different combinations of these serotypes could be associated with distinct host responses and hence different inflammatory patterns. This investigation was aimed to assess whether the increased immuno-stimulatory potential attributed to the serotype b of A.

*actinomycetemcomitans* on immune cells is able to be modified during co-infection with other A. *actinomycetemcomitans* serotypes. Methods: Dendritic cells (DCs) were obtained from healthy subjects and stimulated with the different A. *actinomycetemcomitans* serotype