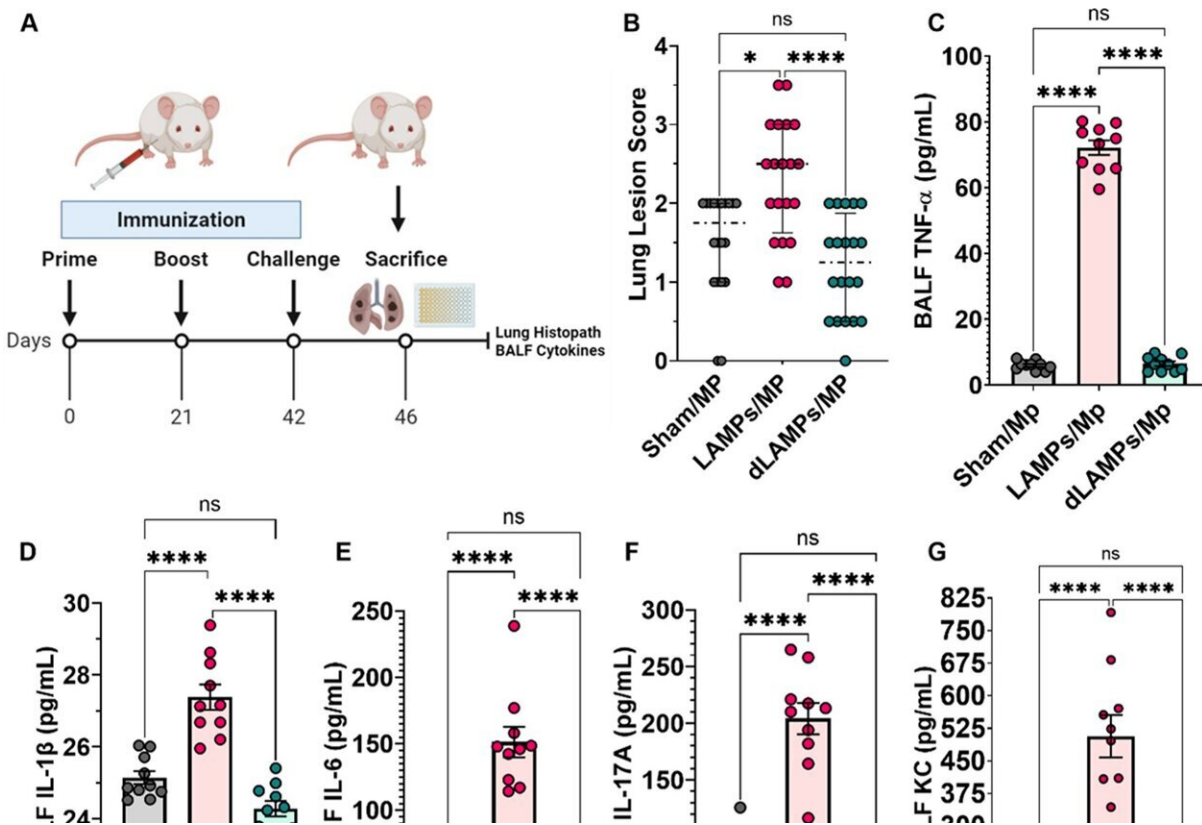


# How pathogens hijack the immune system to cause vaccine-enhanced disease

November 9 2022, by Anna Zarra Aldrich



Vaccination with *M. pneumoniae* lipoproteins is associated with potent reactivation of inflammatory cytokines responses after challenge. A Illustration of experimental timeline and outcome measures. B Lung lesion scores of vaccinated-then-challenged animals. Bronchoalveolar lavage fluid (BALF) concentrations of C TNF- $\alpha$ , D IL-1 $\beta$ , E IL-6, F IL-17A, and G KC in vaccinated-then-challenged animals. Positive correlations between disease severity (lung lesion scores) and BALF H IL-17A, and I KC concentrations. \*p

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