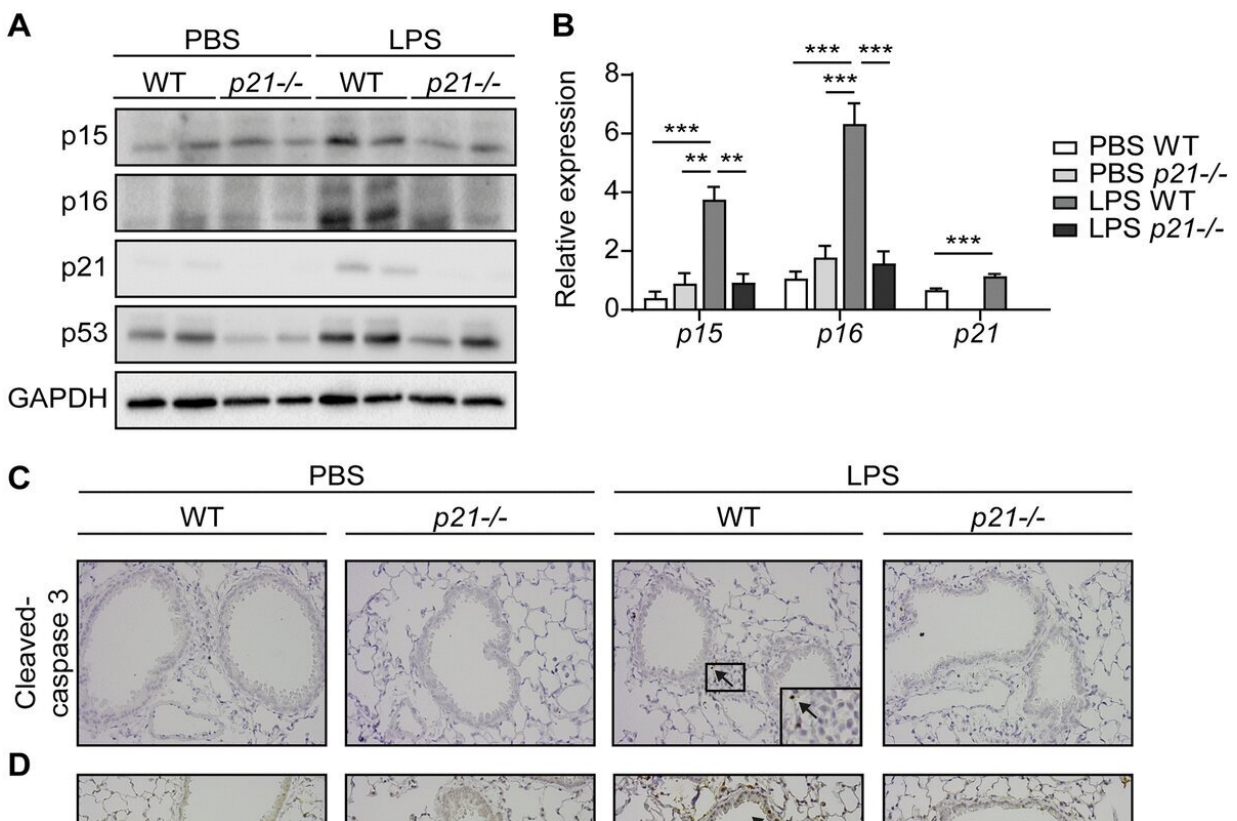


Study: p21 facilitates chronic lung inflammation via epithelial and endothelial cells

April 17 2023



Accumulation of senescent cells is decreased in the lungs of *p21*^{-/-} mice. WT and *p21*^{-/-} mice were exposed to either PBS or aerosolized LPS (0.5 mg/ml), 3 times a week for 10 weeks. At 48 hours following the last LPS exposure, the lungs were harvested and frozen. Alternatively, lungs were harvested, fixed, and analyzed for markers of senescence. **(A)** Representative immunoblots for senescence-associated proteins p15, p16, p21 and p53 in the mice lungs. **(B)**

mRNA expression levels of senescence markers *p15*, *p16* and *p21* in the mice lungs. (C, D) Immunohistochemistry (IHC) of lung sections for cleaved caspase 3, (C) and p21, (D). Scale bar represents 200 μ m. (E) SA- β -Gal staining of lung sections. Scale bar represents 200 μ m. (F) Quantification of the number of p21 positive cells per bronchial area, of the lung sections presented in (D). (G) Quantification of SA- β -gal (%) per bronchial area, of the lung sections presented in (E). Data information: Data were analyzed using one-way ANOVA, *P

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