Joelsson et al.:

Azithromycin Has Lung Barrier Protective Effects in a Cell Model Mimicking Ventilator-Induced Lung Injury

Supplementary Data

Tab. S1: List of primers used in this study

Gene	RefSeq number
CXCL8	NM_000584.3
TNFα	NM_000594.3
CHI3L	NM_001276
GAPDH	NM_002046

Tab. S2: List of secondary antibodies used in this study

Primary antibody	Secondary antibody
NFkB p65 (Santa Cruz Biotechnology, sc-372)	Alexa Fluor 647 goat-anti rabbit IgG
E-Cadherin (BD Transduction Laboratories, 610182)	Alexa Fluor 647 goat-anti mouse IgG2a
Chitinase-3-like protein 1 (YKL-40) (Millipore, MABC196)	Alexa Fluor 647 goat-anti mouse IgG1
Surfactant protein B (Abcam, ab40876)	Alexa Fluor 647 goat-anti rabbit IgG

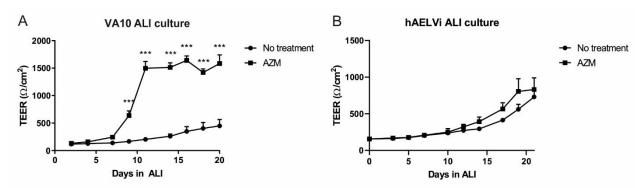
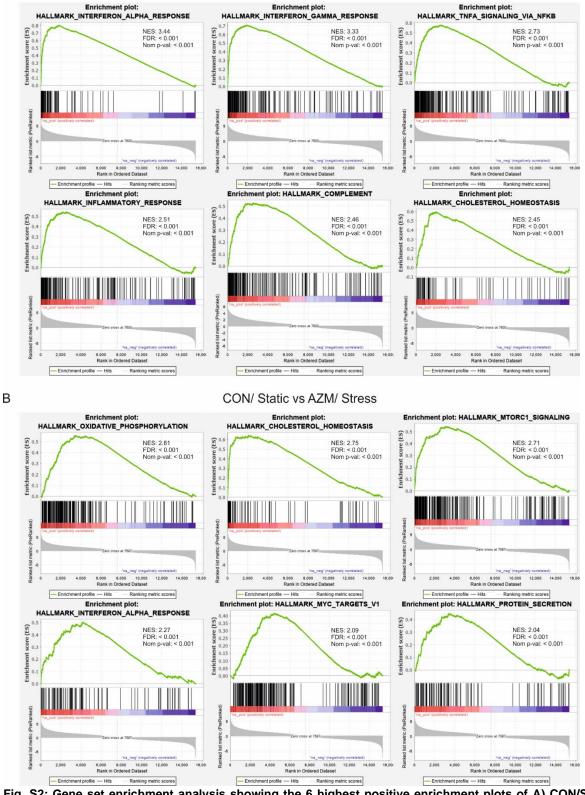


Fig. S1: Trans-epithelial electrical resistance of ALI cultured cell lines with and without AZM TEER measurements of A) VA10 and B) hAELVi cell lines cultured in ALI conditions with and without AZM for 21 days (N = 3, $P \le 0.001 = ***$).



CON/ Static vs CON/ Stress

Fig. S2: Gene set enrichment analysis showing the 6 highest positive enrichment plots of A) CON/Static vs CON/Stress and B) CON/Static vs AZM/Stress

ALI-cultured VA10 cell layers with/without AZM treatment (CON/AZM) in static or stress conditions (Static/Stress) for 21 days. Normalized enrichment scores (NES), false discovery rate (FDR) and nominal p-value (Nom p-val) are shown.

A

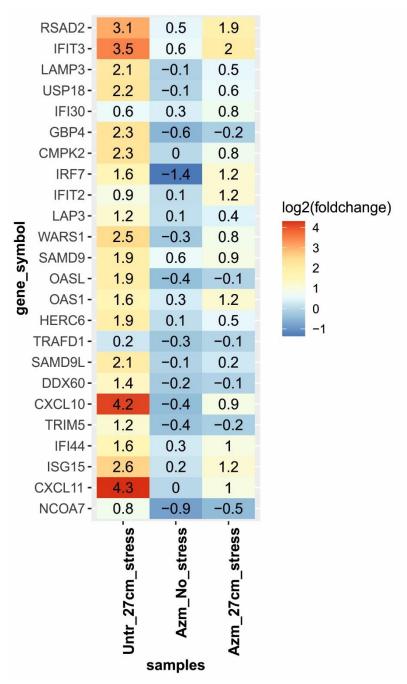


Fig. S3: Comparison of the 24 most significantly differentially expressed genes in the IFNα pathway ALI-cultured VA10 cell layers with/without AZM treatment in static or stress conditions for 21 days.

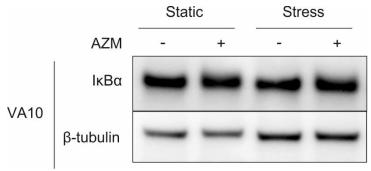


Fig. S4: Western blot showing IκBα in VA10 cells

ALI-cultured VA10 cell layers with/without AZM treatment in static or stress conditions for 21 days. β-tubulin shown as house-keeping gene. Representative images of 3 independent experiments are shown.

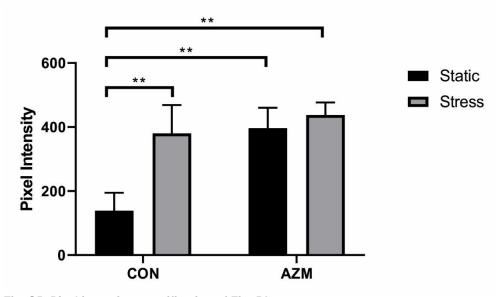


Fig. S5: Pixel intensity quantification of Fig. 5A ImageJ was used to quantify pixel intensity of 3 replicates from Fig. 5A.

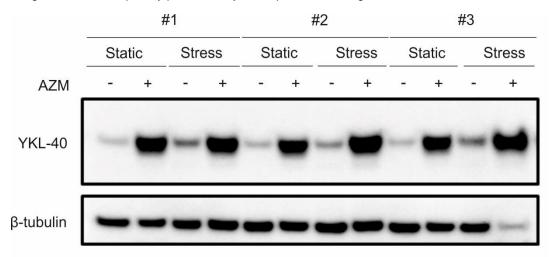


Fig. S6: All YKL-40 Western blots of which one representative is shown in Fig. 5B