

**Supplemental information for:**

**Azithromycin inhibits mucin secretion, mucous metaplasia, airway inflammation and airways hyperresponsiveness in mice exposed to house dust mite extract**

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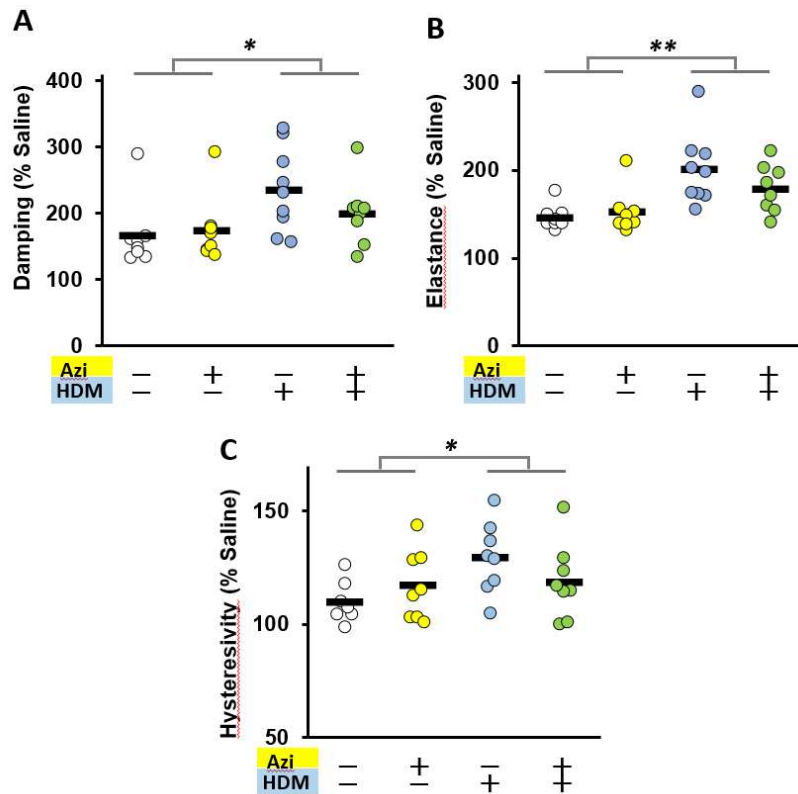
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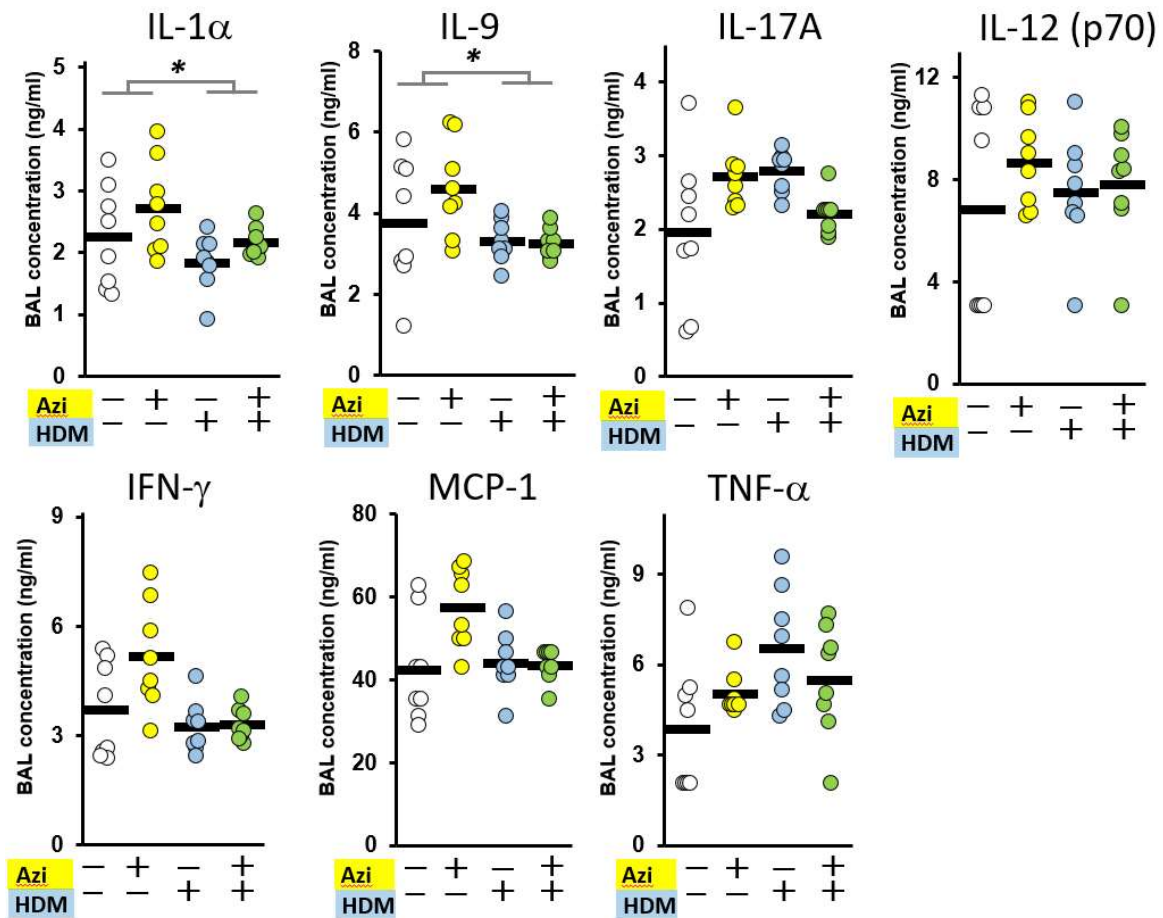
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Supplemental Fig. S1



**Supplemental Fig. S1** Effect of HDM extract exposure and azithromycin administration on (A) tissue damping, (B) tissue elastance and (C) tissue hysteresivity (ratio of damping/elastance) observed in response to the 30 mg/mL MCh solution in lung function studies. Responses were obtained in SHAM mice (white), AZI mice (yellow), HDM mice (blue) and HDM/AZI mice (green). Shown are the individual responses obtained from 7-9 mice/group. The black horizontal bar indicates the mean response. Data analysed using 2-way ANOVA. The analyses revealed a significant effect of HDM exposure on all three measures of lung function, but no significant effect of azithromycin, and no interaction between HDM extract and azithromycin. \* $P < 0.05$ , \*\* $P < 0.01$  and \*\*\* $P < 0.001$ .

**Supplemental Fig. S2**



**Supplemental Fig. S2** Levels of BAL fluid cytokines and chemokines in experimental groups that were measurable but were not significantly reduced by azithromycin.

Cytokine and chemokine concentrations in BAL fluid recovered from SHAM mice (white), AZI mice (yellow), HDM mice (blue) and HDM/AZI mice (green). Shown are the individual responses obtained from 8 mice/group. The black horizontal bar indicates the mean response. \* $P < 0.05$ , \*\* $P < 0.01$  and \*\*\* $P < 0.001$ . Data analysed using the nonparametric Mann-Whitney test (Wilcoxon rank sum test).