## Table 2: EFFECTS OF ENVIRONMENTAL TOBACCO SMOKE (ETS) ON MURINE ALLERGIC SENSITIZATION

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<th>Mice</th>
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</table>
| Female BALB/c or C57BL/6 | No | OVA aerosol, ETS or OVA/ETS for 10 days  
Rechallenge: OVA aerosol at day 30 | C57BL/6: OVA-IgE ↑ and OVA-IgG ↑ in OVA/ETS group at days 12, 18, 25 and 30, but not in OVA group  
BALB/c: similar to C57BL/6, but transient increase in OVA-IgE in OVA group | BAL total cell numbers and eosinophils ↑ in OVA/ETS compared to OVA or ETS alone in both strains.  
In C57BL/6: neutrophil numbers ↑ in OVA/ETS group  
BAL IL-5 ↑, GM-CSF ↑ and IL-2 ↑ and IFNγ ↓ in OVA/ETS compared to OVA | N.D. | Rumold et al, 2001 [63] |
| Female BALB/c | i.p. OVA-sensitized (alum) | ETS or air from day 1 to 43 Single OVA or PBS aerosol on day 17 | Total IgE ↑ and OVA-IgG ↑ in OVA/ETS compared to OVA/air.  
BALB/c: similar to C57BL/6, but transient increase in OVA-IgE in OVA group  
BAL total cell numbers and eosinophils ↑ in OVA/ETS compared to OVA or ETS alone in both strains.  
In C57BL/6: neutrophil numbers ↑ in OVA/ETS group | Blood eosinophilia ↑ in OVA/ETS group compared to OVA/air  
Lung eosinophils and lymphocytes ↑ in OVA/ETS group compared to OVA/air  
OVA-stimulated lung cells: IL-4 ↑ and IL-10 ↑ in OVA/ETS compared to OVA/air | N.D. | Seymour at al, 1997 [64] |
| Males/females BALB/c | i.p. OVA-sensitized (alum) | ETS or air in utero until day 80 after birth. OVA aerosol on day 14, 28 and 80. | Total IgE ↑, OVA-IgE ↑ and IgG1 ↑ in females compared to in males.  
OVA-IgE ↑ in OVA/ETS in females.  
OVA-IgG1 ↑ in OVA/ETS in males | Number of IgE positive cells in lung parenchyma ↑ in OVA/ETS in females, not in males  
Blood eosinophilia ↑ by ETS (independent of sex). After OVA aerosol, eosinophils ↑ more in females  
OVA-stimulated lung cells: higher levels of Th2 cytokines (IL-13, IL-5, and IL-10) in females. Enhancing effects of ETS more apparent for males. | N.D. | Seymour et al, 2002 [65] |
| Male DO11.10 OVA-T cell receptor hemizygous mice (+/-) | No | Postnatal 4 weeks air, followed by 6 weeks ETS or air, combined with OVA | OVA-IgE ↑ and IgG1 ↑ upon OVA, trend to be reduced upon OVA/ETS | AHR ↑ in OVA/ETS group compared to ETS or air.  
Occasional mucous cell hyperplasia in OVA and OVA/ETS group | Barret et al, 2002 [66] |
| Female C57BL/6, BALB/c and A/J | No | Whole body exposure to ETS or filtered air for 9 weeks, combined with nose-only aerosol (10 days) of saline or OVA on weeks 2 and 3; 5 and 6 or 8 and 9 | No effect of ETS  
BAL: moderate inflammation which ↑ by ETS  
C57BL/6: limited inflammation, no effect of ETS  
A/J: no inflammation towards OVA, no effect of ETS. | No effects of OVA or ETS on AHR  
Barret et al, 2002 [66] |
| Males/Females BALB/c | No | In utero ETS or Air, OVA or saline aerosol in weeks 7 and 8 after birth | No effect of ETS  
BAL: no effect of ETS  
C57BL/6: limited inflammation, no effect of ETS | AHR ↑ in OVA/ETS compared to OVA/air  
Pink et al, 2007 [68] |
| Female BALB/c | i.n. sensitization to Af | ETS or air for 43 days, combined with 4 i.n. Af-applications (days 14, 17, 21, 24) | No effect of ETS  
Blood eosinophilia ↑ in Af/ETS compared to Af/air  
No difference in cytokine responses from homogenized lung. | AHR ↑ in Af/ETS compared to Af/air  
Seymour et al, 2003 [69] |

i.p. intraperitoneal, i.n.: intranasal, AHR: airway hyperresponsiveness, N.D.: not determined