sease Models & Mechanisms • Supplementary information

Table S1. Nasopharynx and middle ear infection rates are positively associated. In 12 week Jbo/+ mice inoculated with 10^6 CFU NTHi 162sr NTHi infection in ME and NP is positively associated (P=2.62E-16). Data in the body of the table is pooled from all sampling points, 1 to 56 days post inoculation (ME infection data from FIG 2E).

Click here to Download Table S1

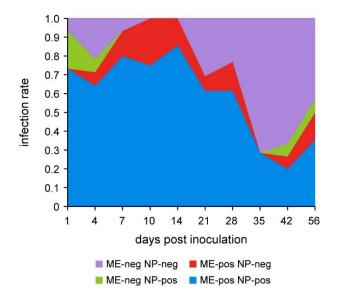


Fig. S1. NTHi infection in ME and NP is correlated in Jbo/+ mice. The proportion of Jbo/+ mice with co-infection in ME and NP declines with time and a minority of mice have NTHi infection in one compartment only. 12 week Jbo/+ mice were inoculated with 10^6 CFU NTHi 162sr and groups of n=13-15 mice were terminally sampled at intervals between 1 and 56 days post inoculation (ME infection data from FIG 2E). Data are represented as percentages of mice that are positive or negative for ME and NP NTHi culture.

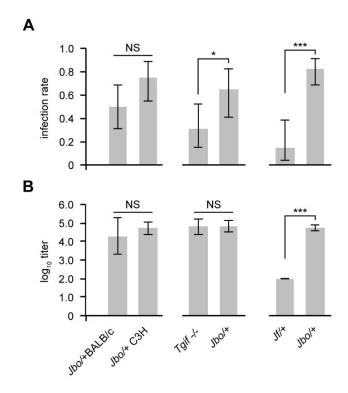


Fig. S2. Characteristics of NTHi ME infection in *Junbo* mice on congenic inbred C3H/HeH and BALB/c genetic backgrounds compared to *Tgif* and *Jeff* mice that have different otitis media mutations. NTHi ME infection rates (A) and bacterial titers (B) in paired comparisons between *Jbo/+* C3H/HeH and *Jbo/+* BALB/c mice; *Jbo/+* and *Tgif -/-*; and *Jbo/+* and *Jf/+* mice inoculated with the same NTHi 162 strain. 7 days post-inoculation, ME infection rates (A) and NTHi titers (B) were not significantly different in 8 week *Jbo/+* congenic on either inbred C3H/HeH (n=30) or BALB/c (n=12) genetic backgrounds when mice were challenged with 10 6 CFU NTHi 162sr. *Tgif* mice (8-14 week *Tgif -/-, n*=25) had significantly lower infection rates than those seen in *Jbo/+* mice (11 week n=12) but had equivalent NTHi titers 7 days post IN-inoculation with 10 6 CFU 162kr. *Jeff* mice (7-8 week n=11) showed the lowest ME infection rate (n=15n=10) and lowest NTHi titers compared to n=11 showed the lowest ME infection rate (n=15n=10) and lowest NTHi titers compared to n=11 showed the lowest ME infection rate (n=15n=10) and lowest NTHi 162. Data are represented as mean n=15n=16. NS not significant, n=16 cFU NTHi 162.