|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Mouse strain | Filarial development | Target | Tool | Main functional cell target | Effect on patency | ref |
| BALB/c | Sensible  (develop a patent phase) | IL4 | IL4-/-  mice | Mac | ­↑ microfilaremia | (1, 2) |
| IL4/IL13 | IL4R-/-  mice | Mac | ­↑ microfilaremia | (2) |
| IL5 | IL5-/-  mice | Eos | ­↑ Worm burden  ↑­ survival of adults ­↑ microfilaremia | (2,3) |
| IL4/IL13/IL5 | IL4R-/- /IL5-/-  mice | Mac/Eos | ­↑ worm burden  ↑­% of Mfpos mice ↑­ microfilaremia | (4) |
| IL5 | rIL5 | Eos | ­↑ parasite fecundity | (5) |
| Eotaxin | Eotaxin-/-  mice | Eos | ­↑ survival of adults | (6) |
| Histamine | HR1i | Eos | ↑ worm burden | (7) |
| IFNγ | IFNγ-/-  mice | Mac/Neu | ­↑ survival of adults ↑­microfilaremia | (8) |
| IFNγ/IL5 | IFNγ-/- /IL5-/-  mice | Mac/Eos/Neu | ­↑ survival of adults ↑­microfilaremia | (3) |
| TLR4 | TLR4-/-  mice | Mac | ­↑ % of Mfpos mice | (9, 10) |
| IL33 | IL33R-/- mice | Mac | ­↑ microfilaremia | (11) |
| B-cells | B-cell-deficient mice (μMT mice) | B-cells | No patent phase | (12) |
| B1-cells | B1-cell-deficient mice (Xid) | B1-cells | ­↑ Worm burden  ↑­ microfilaremia | (13) |
| Treg | Treg depletion (α-CD25 and α-GITR ab) | Tregs | ↓ worm burden | (14) |
| C57BL/6 | Semi-resistant (adults killed before patency) | lymphocytes | Rag2IL-2Rγ-/-  mice | T, B and NK cells | ­ ↑ survival of adults  development of patent phase | (15) |
| IL4 | IL4-/-  mice | Mac | ↑ survival of adults  development of patent phase | (16) |
| NOD2 | NOD2-/-  mice | Neu | Parasites eliminated before patency | (17) |
| 129/SvJ | Semi-resistant  (adults killed before patency) | EPO | EPO-/-  mice | Eos | Parasites eliminated before patency | (18) |
| MBP | MBP-/-  mice | Eos | Parasites eliminated before patency | (18) |
| FVB | Semi-resistant (adults killed before patency) | IL10 | IL-10 overexpressing macrophages  (macIL-10tg) | Mac | ↑survival of adults  development of patent phase | (19) |
| CBA/Ca | Semi-resistant  (adults survive >60 days but no patency) | IL5 | IL5 overexpressing mice | Eos | ↓ worm burden  No patent phase | (20) |

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