**S1 Table. Summary of studies investigating costs of resistance in *Aedes* (all *Ae. aegypti*)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Source | selection regime | comparison | resistance | mechanism(s) | LdR | AdS | Lon | Siz | Fed | Fec | Ins | Ref |
| Brazil (field lines) | diflubenzuron: 6-7 g | selected/unselected | ≈4x | n/a | n/a | n/a | **↓** | n/a | **↓** | **↓** | **↓** | [1] |
| Rockefeller strain | 1016I+1534C crossed into Rockefeller | Rock-kdr/Rockefeller | ≈100x | *kdr* 1016I+1534C | **↓** | = | = | n/a | n/a | **↓** | n/a | [2] |
| Taiwan strain (Per-R) | permethrin selection *withdrawn* for 15 g | resistant/resistance reversed | 5x | *kdr* V1016I+D1763Y | n/a | n/a | n/a | n/a | n/a | n/a | n/a | [3] |
| Brazil (Rec-R strain) | temephos selection *withdrawn* for 21 g | resistant/resistance reversed | 40x | esterases, GSTs | **↓** | **↓** | **↓** | n/a | n/a | **↓** | n/a | [4] |
| Brazil (3 field lines) | deltamethrin: 9 g | selected/unselected | 6x | n/a | **↓** | n/a | **↓** | n/a | **↓** | **↓** | n/a | [5] |
| Thai strain (PMD-R) | permethrin: 10 years | selected/unselected | n/a | *kdr* F1534C | = | = | = | **↓** | n/a | **↑** | = | [6] |
| Colombia (field line) | lambda-cyhalothrin for 9-10 g | selected/unselected | 8-22x | n/a | = | = | **↓** | **↓** | n/a | **↓** | n/a | [7] |
| Bora Bora strain | 3 *Bti* toxins: up to 22 g | selected/unselected | 6-35x | n/a | **↓** | = | = | = | n/a | **↓\*** | = | [8] |

g, generations; *Bti, Bacillus thuringiensis israelensis*; n/a, not applicable or available;↓, significant reduction (evidence for 'cost'); ↑, significant increase; =, no significant difference; ↓\*, significant reduction and reduced dried egg viability; LdR, larval development rate; AdS, survival to adult; Lon, longevity; Siz, adult size; Fed, blood-feeding; Fec, fecundity; Ins, insemination rate

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