

Figure labels

It's hard to get R to make complicated axis and tick labels, so I did this manually by adding this LaTeX-produced text to the figures using Inkscape software.

% simulation runs ending in extinction (\pm 95% CIs)

Parameter value

Gene drive in males

(p_{conv})

Predictor variable

Absolute effect size (\pm 95% CIs)

Gene drive in females (p_{shred})

Gene drive in males (p_{conv})

Rate of NHEJ (p_{nhej})

Z-linked resistance (μ_Z)

W-linked resistance (μ_W)

Cost of Z^* to females (c_f)

Cost of Z^* to males (c_m)

Male dispersal frequency

Female dispersal frequency (x_f)

Male dispersal frequency (x_m)

Dispersal type

Number of patches (k)

Importance of local density (ψ)

Male effect on density (δ)

Shape of density dependence (α)

Maximum fecundity (r)

Initial freq. W-shredding resistance

Initial freq. gene conversion resistance

Release strategy

Gene drive in females (p_{shred}) \times Initial freq. W-shredding resistance

W-linked resistance (μ_W) \times Initial freq. W-shredding resistance

Shape of density dependence (α) \times Initial freq. W-shredding resistance

Gene drive in males (p_{conv}) \times Initial freq. W-shredding resistance

Gene drive in males (p_{conv}) \times Cost of Z^* to females (c_f)

Gene drive in females (p_{shred}) \times W-linked resistance (μ_W)

Maximum fecundity (r) \times Initial freq. W-shredding resistance

Gene drive in females (p_{shred}) \times Gene drive in males (p_{conv})

Rate of NHEJ (p_{nhej}) \times Cost of Z^* to females (c_f)

Gene drive in females (p_{shred}) \times Shape of density dependence (α)

Cost of Z^* to females (c_f) \times Number of patches (k)

Cost of Z^* to females (c_f) \times Initial freq. W-shredding resistance

Male effect on density (δ) \times Initial freq. W-shredding resistance

Rate of NHEJ (p_{nhej}) \times Initial freq. W-shredding resistance

Gene drive in females (p_{shred}) \times Maximum fecundity (r)

Shape of density dependence (α) \times Maximum fecundity (r)