# Supplementary Information

## Evolutionary simulations of *Z*-linked suppression gene drives

## Supplementary Figures and Supplementary Tables

All of the figures and tables in this document can also be viewed online at **XXXXX**, along with the R code used to generate them.

# Supplementary figures

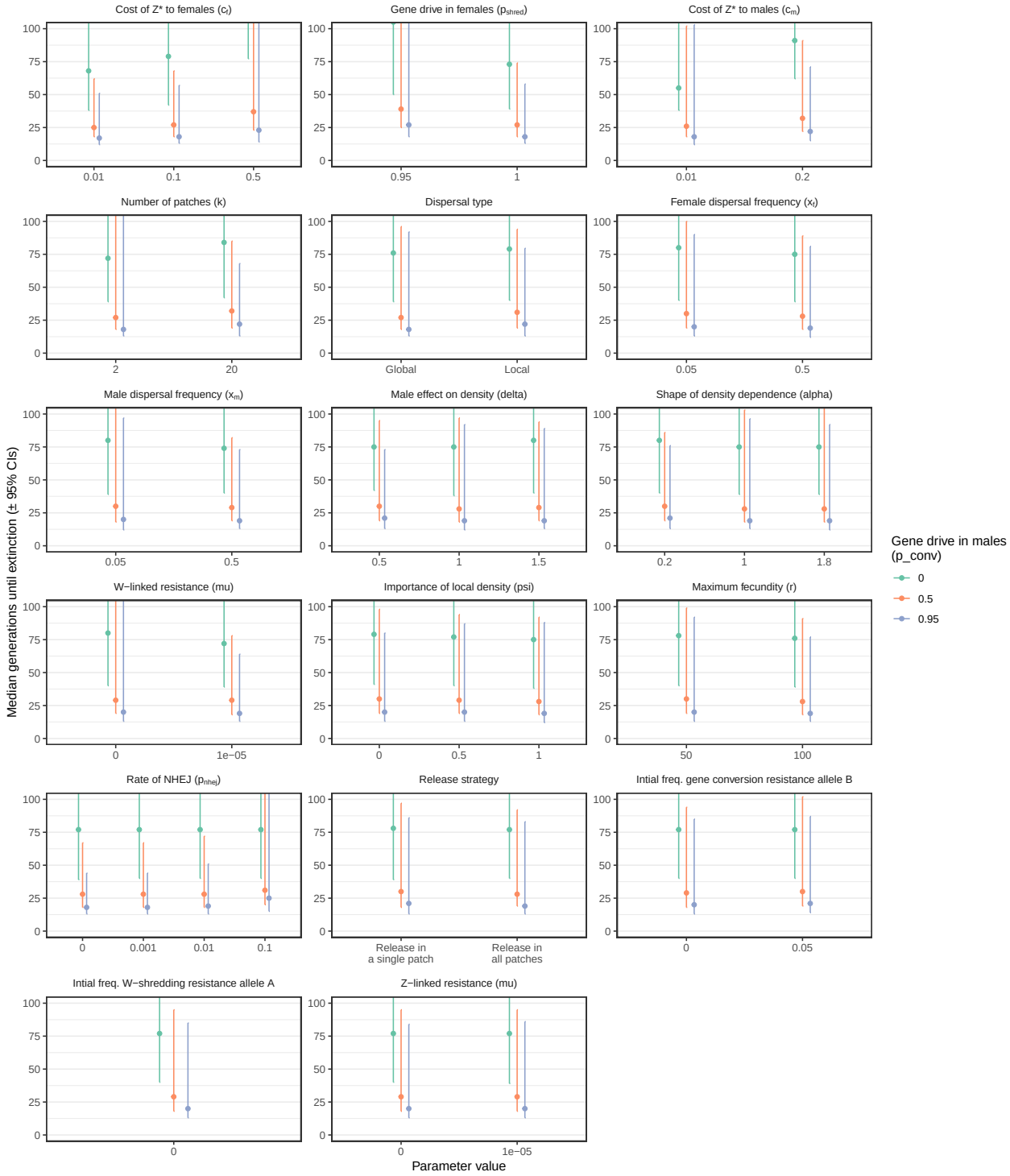


**Figure S1**: The percentage of simulations of a female-sterilising $Z^*$ allele (not a $W$-shredder) that ended in extinction, for all runs with a particular value (shown on the $x$-axis) for a given parameter (shown in the panels). Note that the maximum values on the $y$-axis are more smaller than in Figure 2, indicating that a female-sterilising $Z^*$ allele is likely to be less effective than a $W$-shredder at suppressing populations. The panels are ordered by the range of the $x$-axis, which indicates the relative importance of the variables for the probability of extinction.

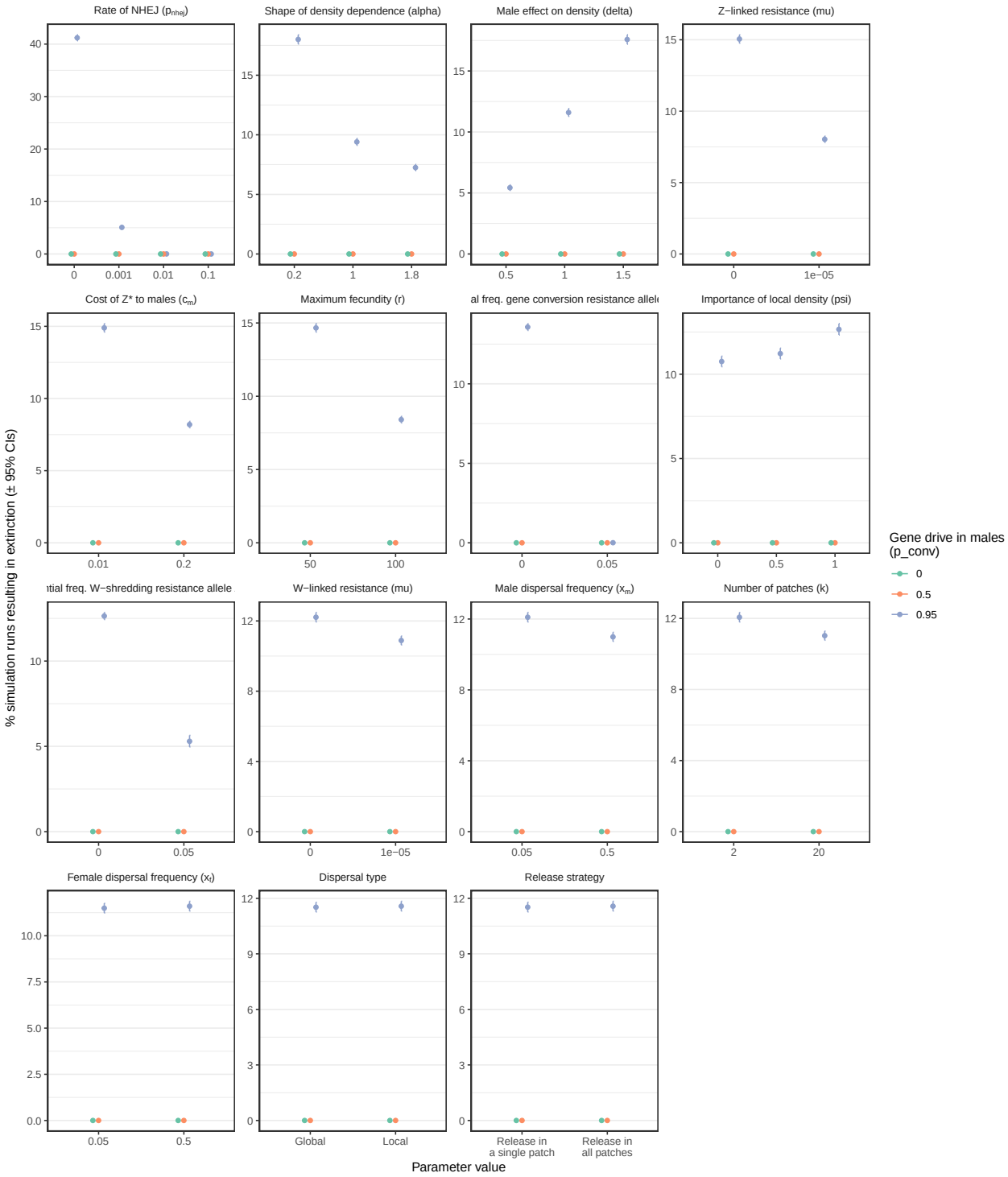


**Figure S2**: The percentage of simulations of a female-sterilising $Z^*$ allele (not a $W$-shredder) that ended in extinction, for all runs with a particular value (shown on the $x$-axis) for a given parameter (shown in the panels). Note that the maximum values on the $y$-axis are more smaller than in Figure 2, indicating that a female-sterilising $Z^*$ allele is likely to be less effective than a $W$-shredder at suppressing populations. The panels are ordered by the range of the $x$-axis, which indicates the relative importance of the variables for the probability of extinction.

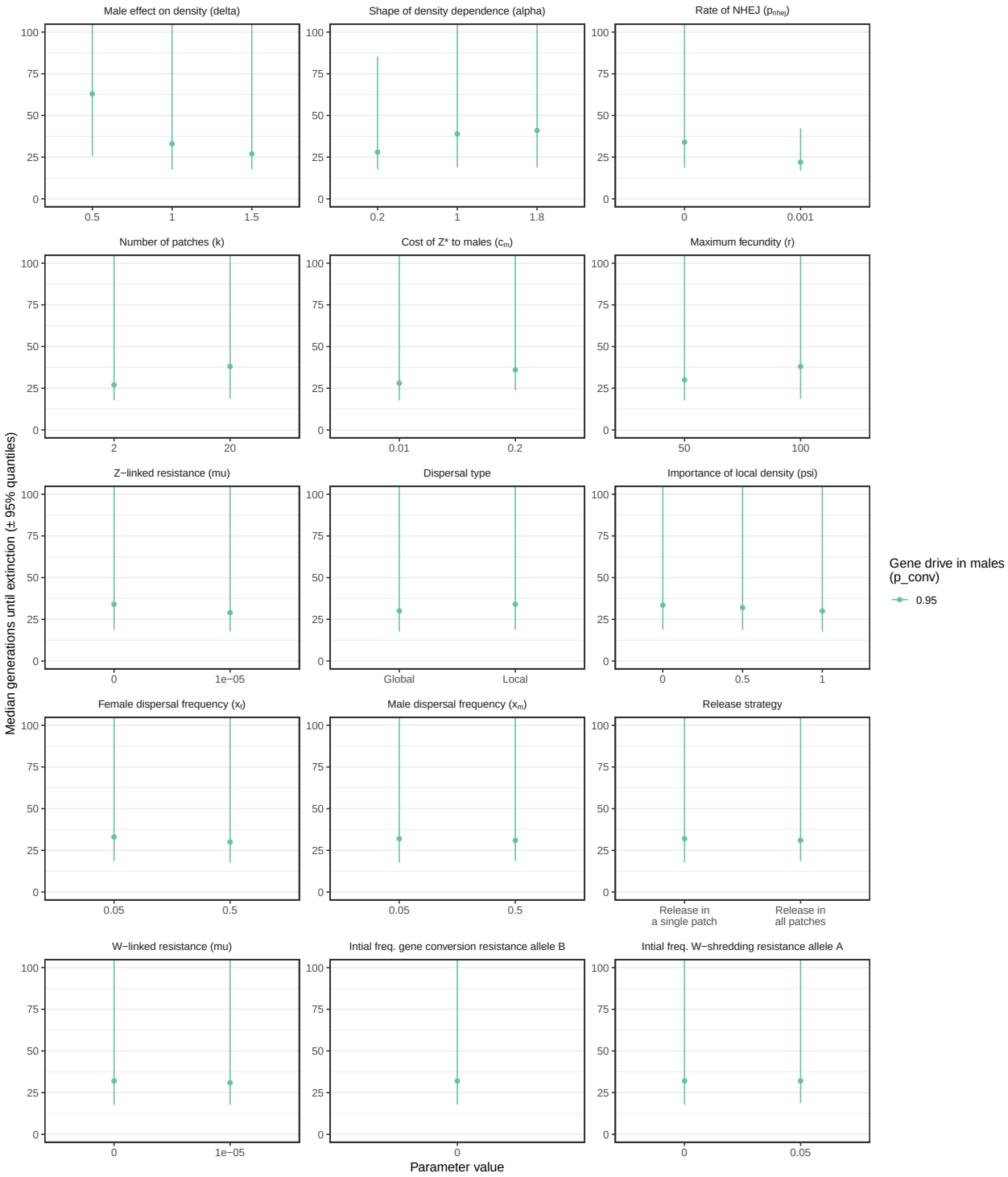


**Figure S3**: The percentage of simulations of a female-sterilising $Z^*$ allele (not a $W$-shredder) that ended in extinction, for all runs with a particular value (shown on the $x$-axis) for a given parameter (shown in the panels). Note that the maximum values on the $y$-axis are more smaller than in Figure 2, indicating that a female-sterilising $Z^*$ allele is likely to be less effective than a $W$-shredder at suppressing populations. The panels are ordered by the range of the $x$-axis, which indicates the relative importance of the variables for the probability of extinction.

# Supplementary tables

**Table S1**: The number and percentage of simulation runs (out of 2316378 total) that ended with the five possible outcomes, for the subset of simulation runs focusing on a $W$-shredder gene drive.

| Outcome | Number of simulations | % |
|---|---|---|
| Zd fixed without causing extinction | 840913 | 36.3 |
| Population went extinct | 660783 | 28.5 |
| Zd went extinct | 425005 | 18.3 |
| Wr fixed | 316890 | 13.7 |
| Timer expired | 72787 | 3.1 |

**Table S2**: The number and percentage of simulation runs (out of 335063 total) that ended with the five possible outcomes, for the subset of simulation runs focusing on a female-sterilising *Z*-linked gene drive.

| Outcome | Number of simulations | % |
|---|---|---|
| Zd went extinct | 271104 | 80.9 |
| Timer expired | 44940 | 13.4 |
| Population went extinct | 12932 | 3.9 |
| Wr fixed | 6087 | 1.8 |