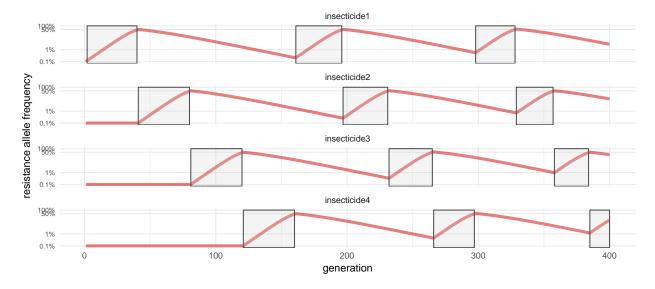
sensi_an_rotations1. Start of sensitivity analysis for rotations.

Andy South and Ian Hastings 2018-03-15

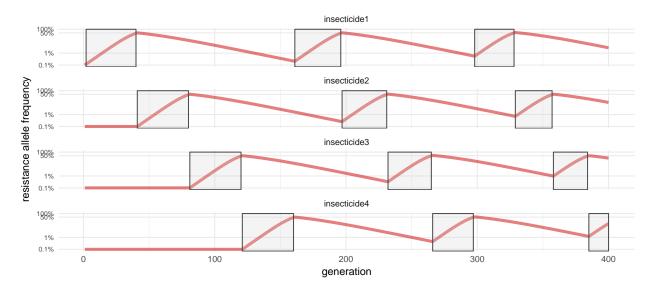
Starting question : is there any benefit to rotations when there are no costs and no migration to an untreated area ?

- Test 1. No refugia (i.e. Coverage=100%) or fitness costs. Would expect all policies to be equivalent.
- Test 2. Dominance of resistance and fitness costs both set to 0.5. I suspect one of the advantages of rotations (and the presence of refugia) is that they maintain lower resistance allele frequencies which slows the spread of recessive resistance alleles. I suspect/guess/intuit that if we make them semi-dominate these effects should disappear and all policies should be the same. I'm probably wrong but it's a nice test.....

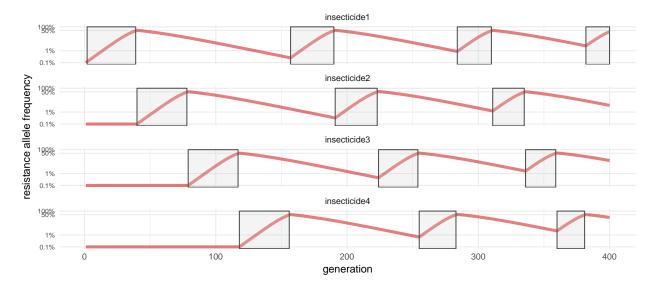
Testing sensitivity analysis to answer question 1. Are sequences and rotations equivalent when coverage 100% and no fitness costs. On each page should see a run with 1 set of inputs first for sequence then for rotation.



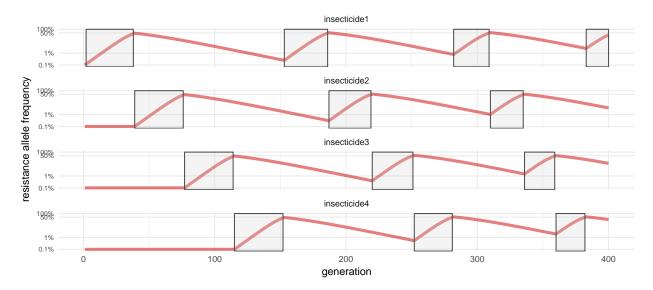
scenario 1 expo_hi 0.7 eff 0.67 rot_interval 0
tot gens deployed under freq 0.5 = 399



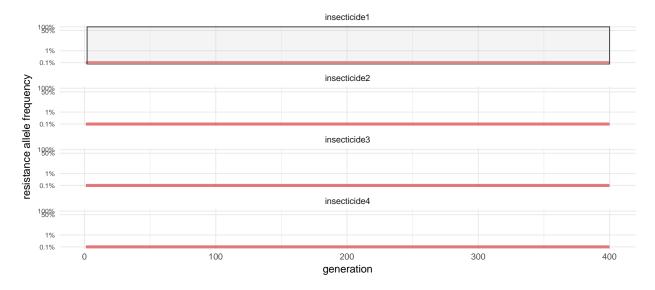
scenario 1 expo_hi 0.7 eff 0.67 rot_interval 49
tot gens deployed under freq 0.5 = 399



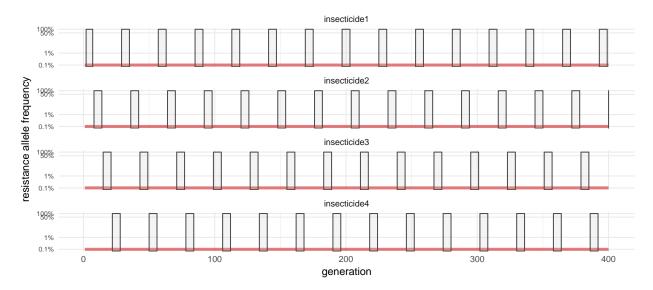
scenario 2 expo_hi 0.52 eff 0.95 rot_interval 0
tot gens deployed under freq 0.5 = 399



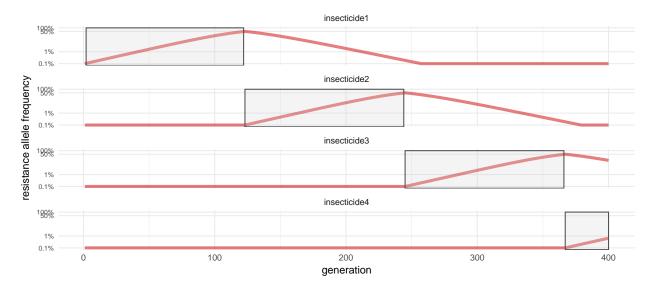
scenario 2 expo_hi 0.52 eff 0.95 rot_interval 38
tot gens deployed under freq 0.5 = 399



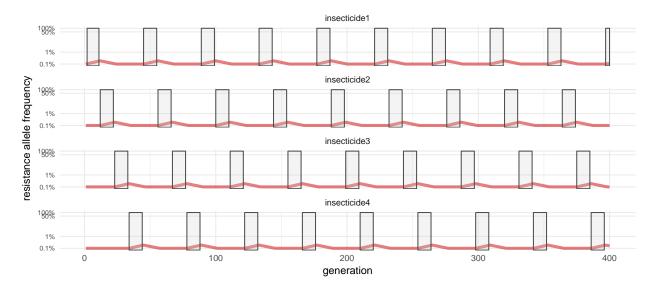
scenario 3 expo_hi 0.3 eff 0.45 rot_interval 0
tot gens deployed under freq 0.5 = 399



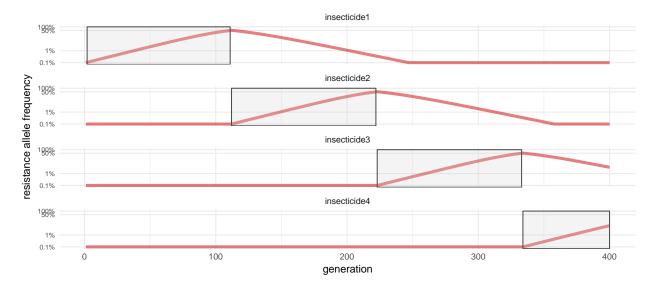
scenario 3 expo_hi 0.3 eff 0.45 rot_interval 7
tot gens deployed under freq 0.5 = 399



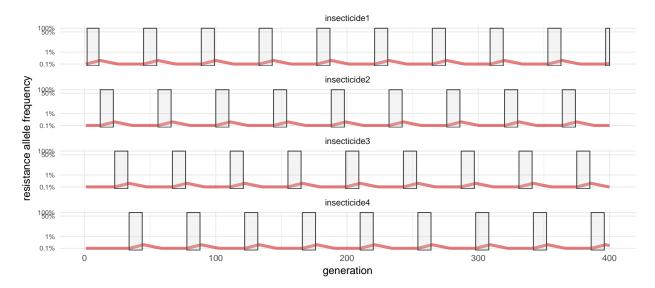
scenario 4 expo_hi 0.48 eff 0.58 rot_interval 0
tot gens deployed under freq 0.5 = 399



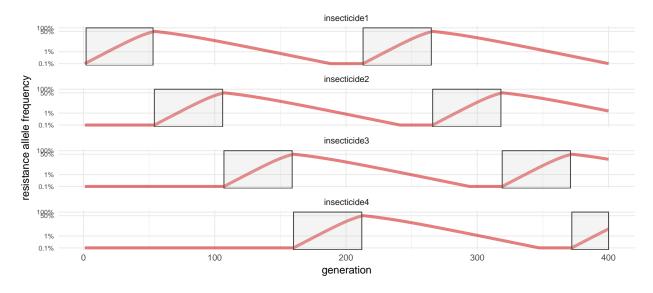
scenario 4 expo_hi 0.48 eff 0.58 rot_interval 11
tot gens deployed under freq 0.5 = 399



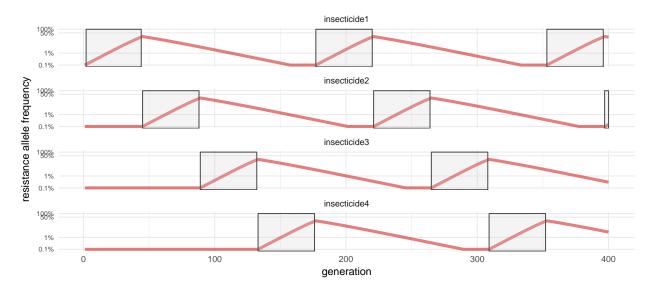
scenario 5 expo_hi 0.52 eff 0.54 rot_interval 0
tot gens deployed under freq 0.5 = 399



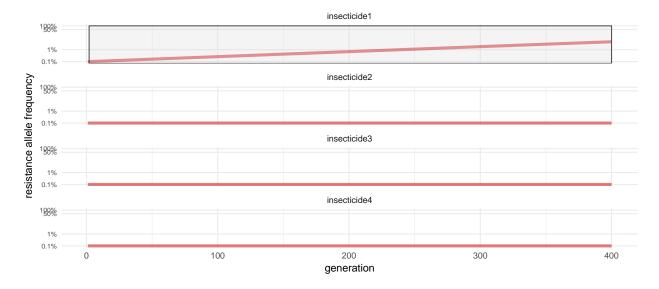
scenario 5 expo_hi 0.52 eff 0.54 rot_interval 11
tot gens deployed under freq 0.5 = 399



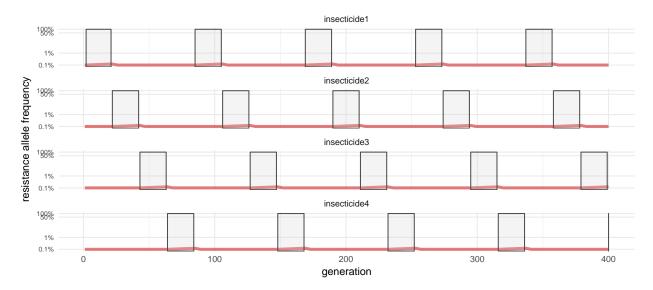
scenario 6 expo_hi 0.63 eff 0.65 rot_interval 0
tot gens deployed under freq 0.5 = 399



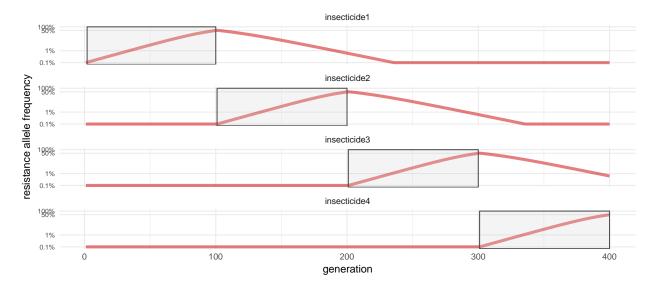
scenario 6 expo_hi 0.63 eff 0.65 rot_interval 44
tot gens deployed under freq 0.5 = 399



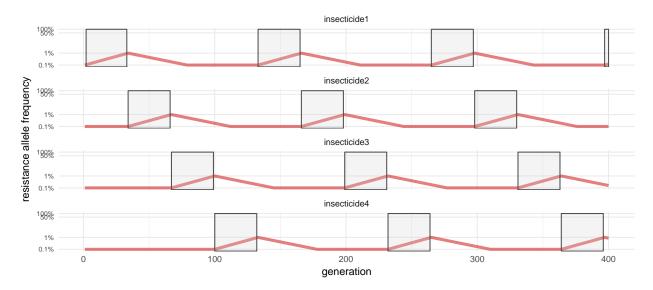
scenario 7 expo_hi 0.25 eff 0.73 rot_interval 0
tot gens deployed under freq 0.5 = 399



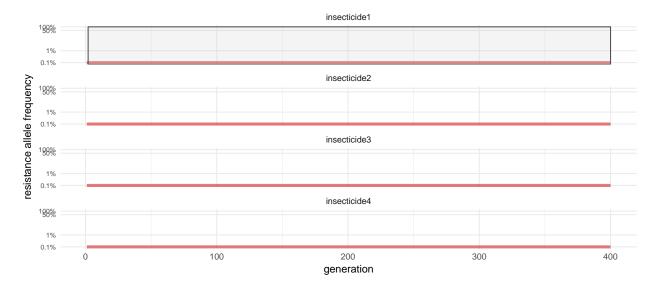
scenario 7 expo_hi 0.25 eff 0.73 rot_interval 21
tot gens deployed under freq 0.5 = 399



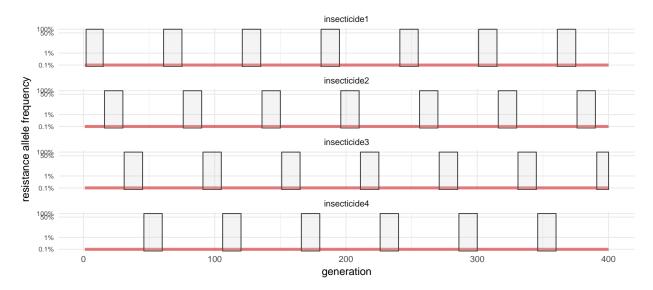
scenario 8 expo_hi 0.82 eff 0.31 rot_interval 0
tot gens deployed under freq 0.5 = 399



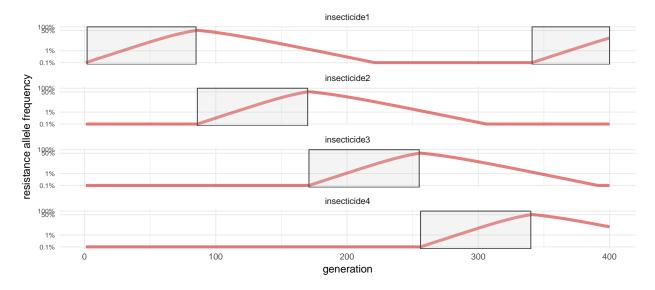
scenario 8 expo_hi 0.82 eff 0.31 rot_interval 33
tot gens deployed under freq 0.5 = 399



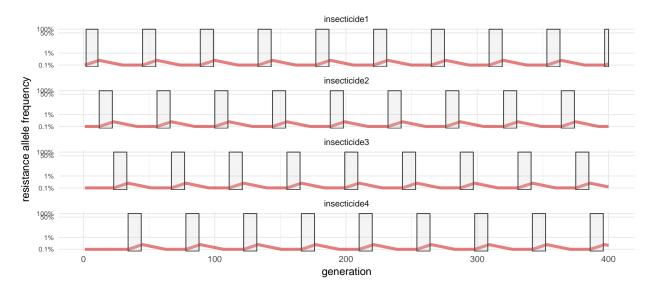
scenario 9 expo_hi 0.29 eff 0.39 rot_interval 0
tot gens deployed under freq 0.5 = 399



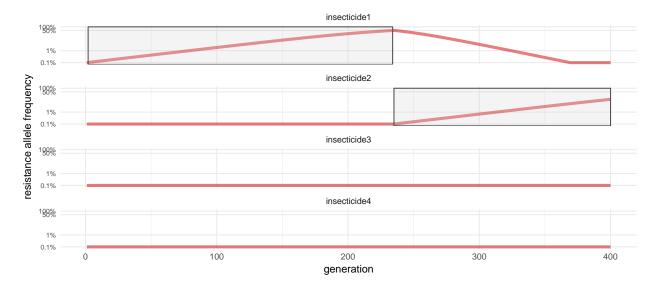
scenario 9 expo_hi 0.29 eff 0.39 rot_interval 15
tot gens deployed under freq 0.5 = 399



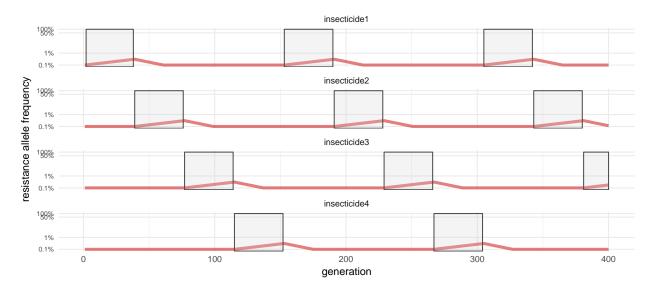
scenario 10 expo_hi 0.88 eff 0.31 rot_interval 0
tot gens deployed under freq 0.5 = 399



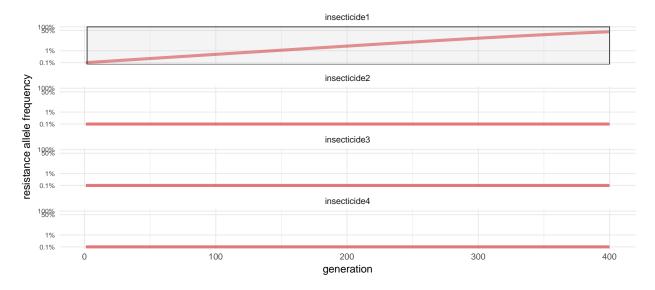
scenario 10 expo_hi 0.88 eff 0.31 rot_interval 11
tot gens deployed under freq 0.5 = 399



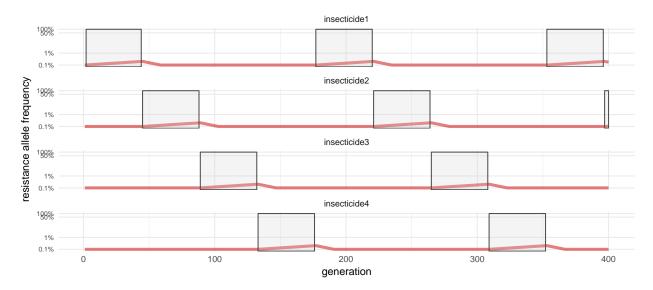
scenario 11 expo_hi 0.43 eff 0.48 rot_interval 0
tot gens deployed under freq 0.5 = 399



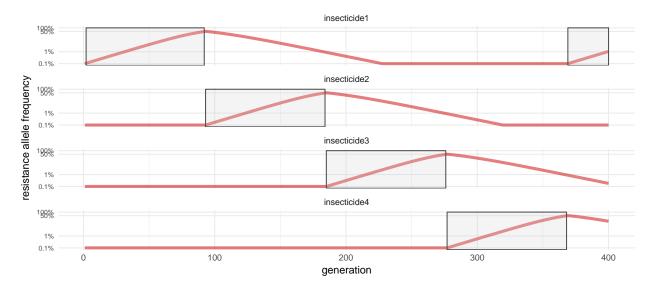
scenario 11 expo_hi 0.43 eff 0.48 rot_interval 38
tot gens deployed under freq 0.5 = 399



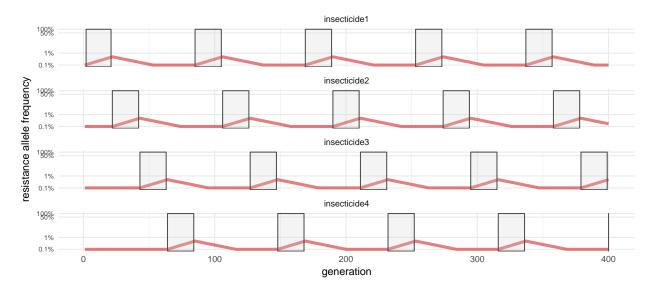
scenario 12 expo_hi 0.4 eff 0.43 rot_interval 0
tot gens deployed under freq 0.5 = 399



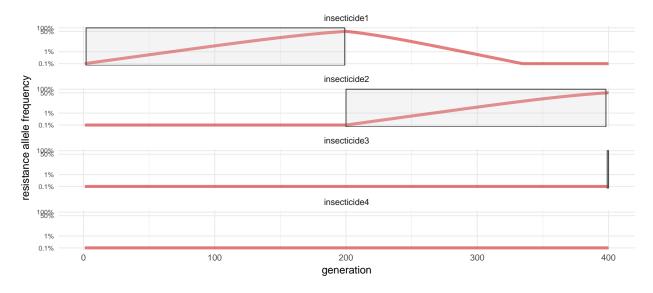
scenario 12 expo_hi 0.4 eff 0.43 rot_interval 44 ## tot gens deployed under freq 0.5 = 399



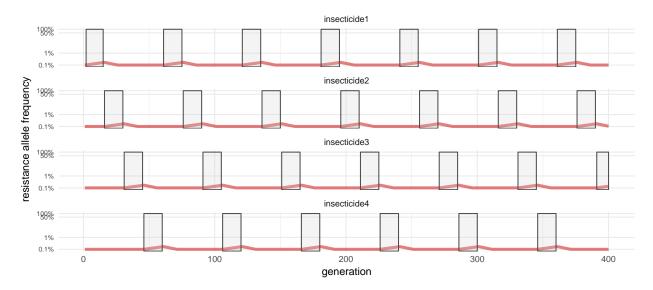
scenario 13 expo_hi 0.49 eff 0.65 rot_interval 0
tot gens deployed under freq 0.5 = 399



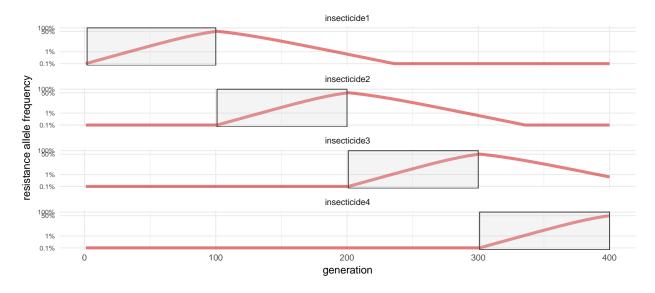
scenario 13 expo_hi 0.49 eff 0.65 rot_interval 21
tot gens deployed under freq 0.5 = 399



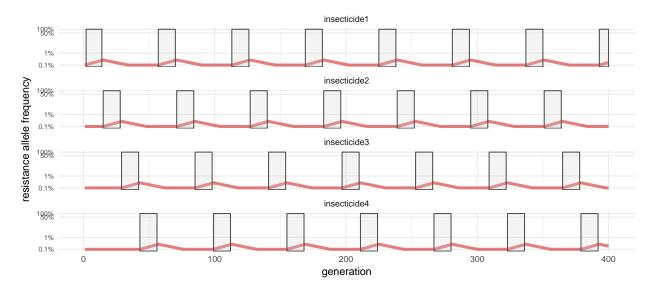
scenario 14 expo_hi 0.26 eff 0.96 rot_interval 0
tot gens deployed under freq 0.5 = 399



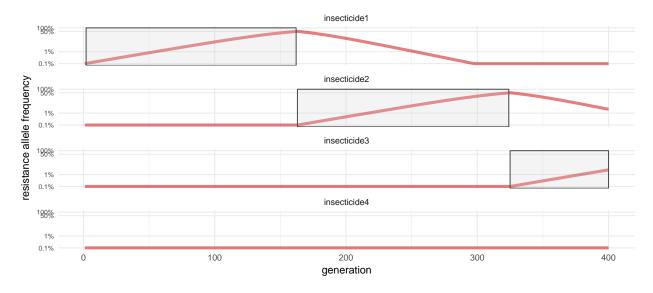
scenario 14 expo_hi 0.26 eff 0.96 rot_interval 15
tot gens deployed under freq 0.5 = 399



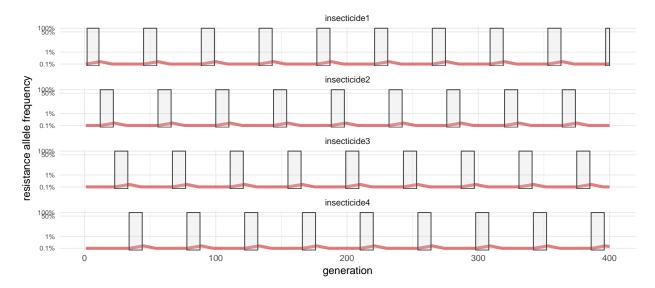
scenario 15 expo_hi 0.38 eff 0.86 rot_interval 0
tot gens deployed under freq 0.5 = 399



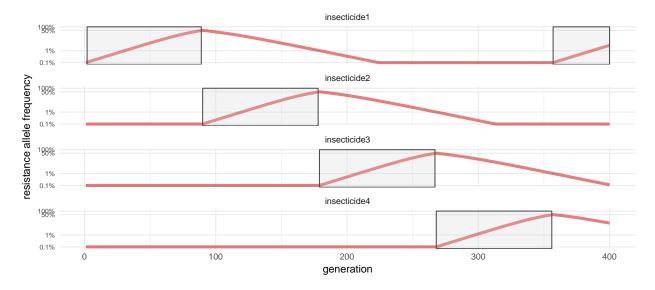
scenario 15 expo_hi 0.38 eff 0.86 rot_interval 14
tot gens deployed under freq 0.5 = 399



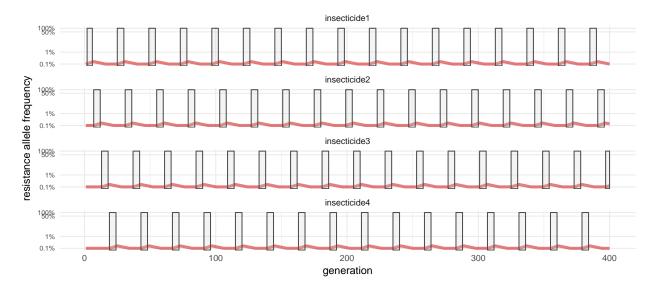
scenario 16 expo_hi 0.6 eff 0.36 rot_interval 0
tot gens deployed under freq 0.5 = 399



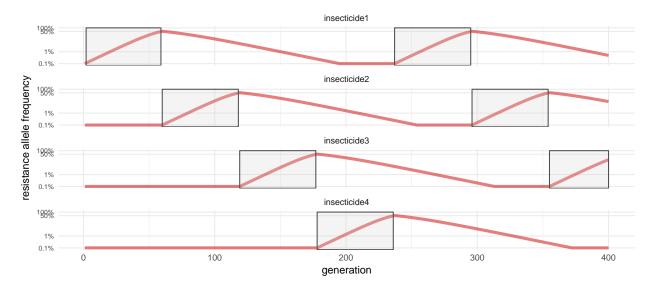
scenario 16 expo_hi 0.6 eff 0.36 rot_interval 11
tot gens deployed under freq 0.5 = 399



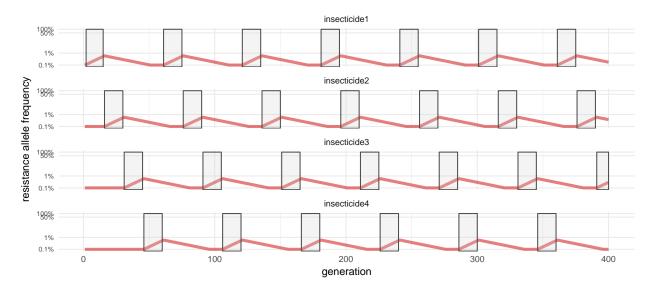
scenario 17 expo_hi 0.68 eff 0.43 rot_interval 0
tot gens deployed under freq 0.5 = 399



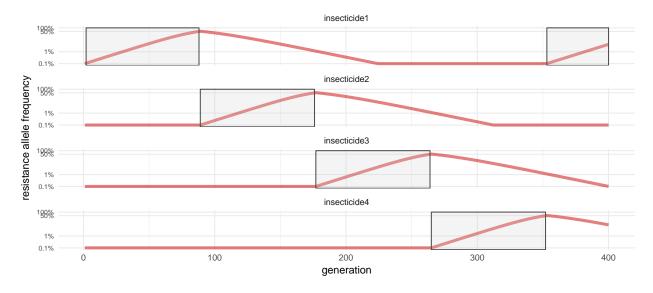
scenario 17 expo_hi 0.68 eff 0.43 rot_interval 6 ## tot gens deployed under freq 0.5 = 399 $\,$



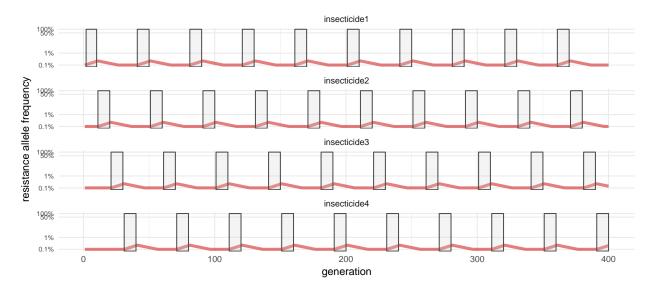
scenario 18 expo_hi 0.86 eff 0.41 rot_interval 0
tot gens deployed under freq 0.5 = 399



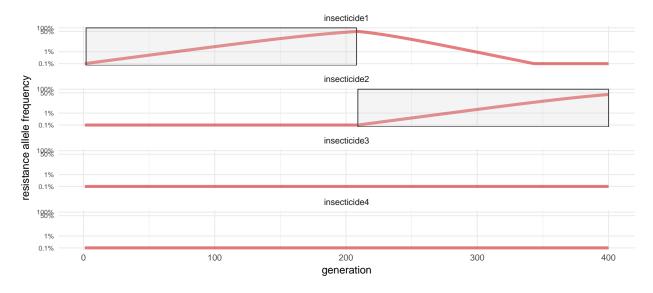
scenario 18 expo_hi 0.86 eff 0.41 rot_interval 15
tot gens deployed under freq 0.5 = 399



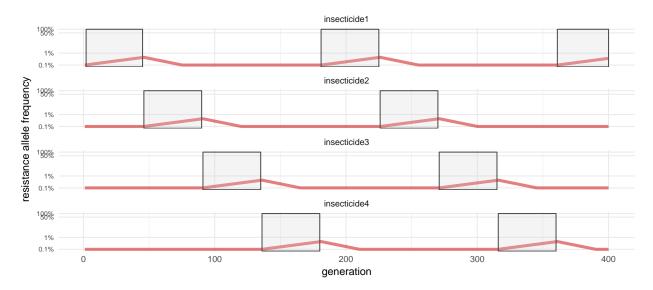
scenario 19 expo_hi 0.48 eff 0.69 rot_interval 0
tot gens deployed under freq 0.5 = 399



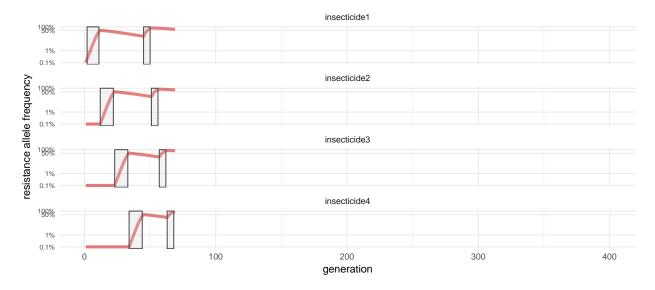
scenario 19 expo_hi 0.48 eff 0.69 rot_interval 10
tot gens deployed under freq 0.5 = 399



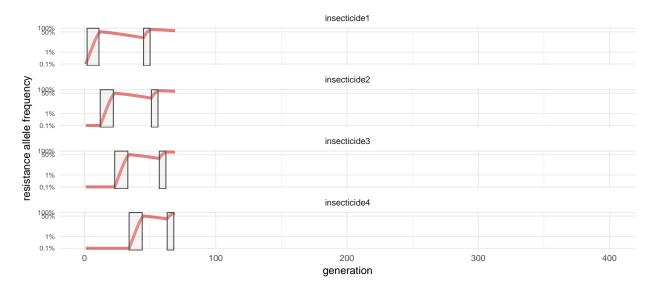
scenario 20 expo_hi 0.61 eff 0.3 rot_interval 0
tot gens deployed under freq 0.5 = 399



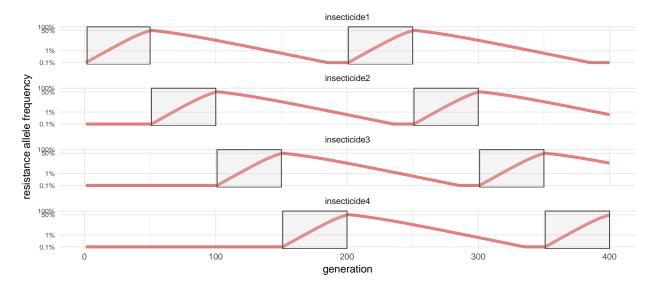
scenario 20 expo_hi 0.61 eff 0.3 rot_interval 45 ## tot gens deployed under freq 0.5 = 399



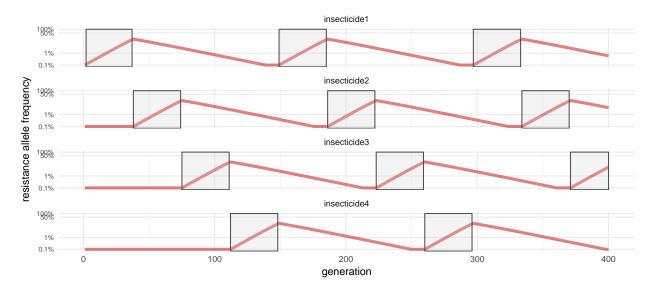
scenario 21 expo_hi 0.87 eff 0.92 rot_interval 0 ## tot gens deployed under freq 0.5 = 54



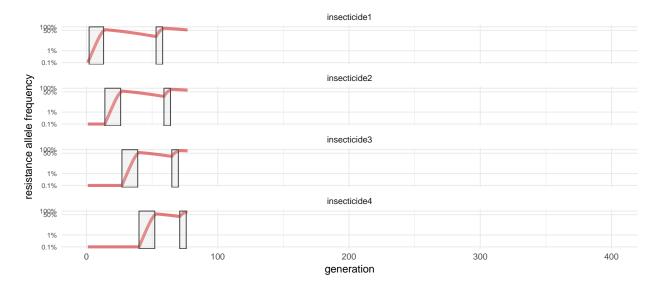
scenario 21 expo_hi 0.87 eff 0.92 rot_interval 32 ## tot gens deployed under freq 0.5 = 54



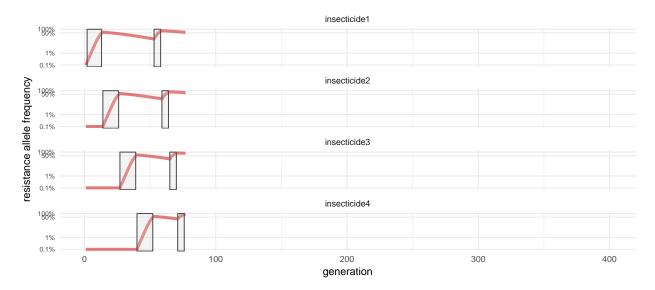
scenario 22 expo_hi 0.81 eff 0.49 rot_interval 0
tot gens deployed under freq 0.5 = 399



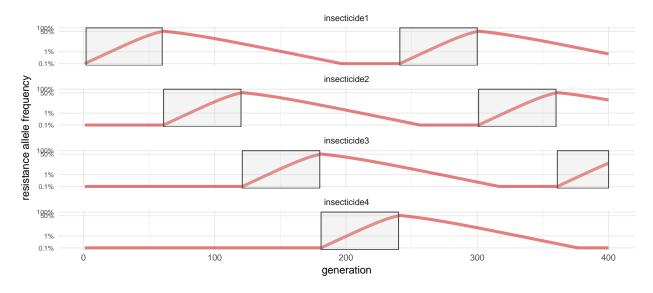
scenario 22 expo_hi 0.81 eff 0.49 rot_interval 37
tot gens deployed under freq 0.5 = 399



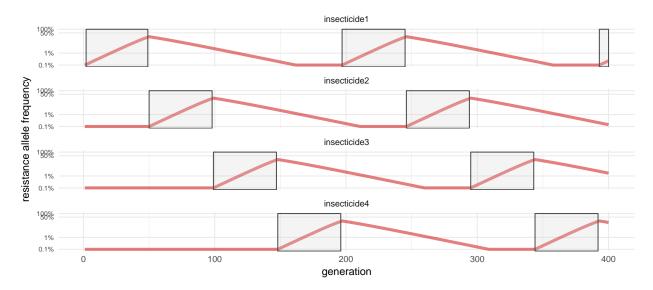
scenario 23 expo_hi 0.83 eff 0.93 rot_interval 0 ## tot gens deployed under freq 0.5 = 62



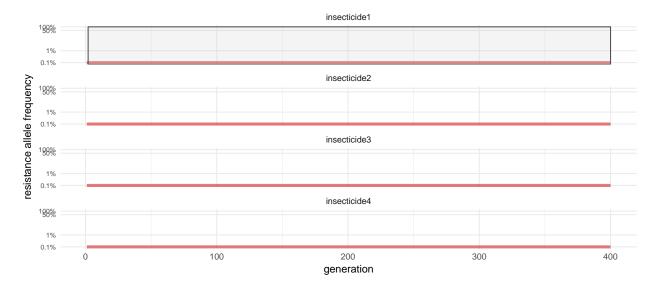
scenario 23 expo_hi 0.83 eff 0.93 rot_interval 27
tot gens deployed under freq 0.5 = 62



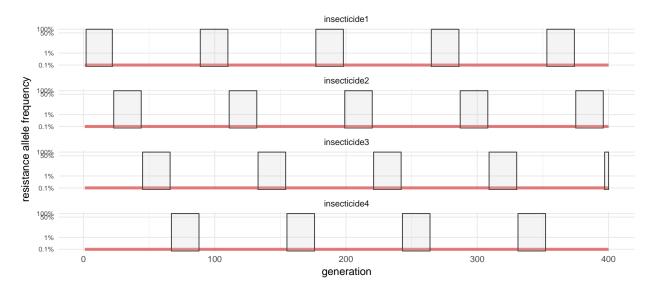
scenario 24 expo_hi 0.59 eff 0.66 rot_interval 0
tot gens deployed under freq 0.5 = 399



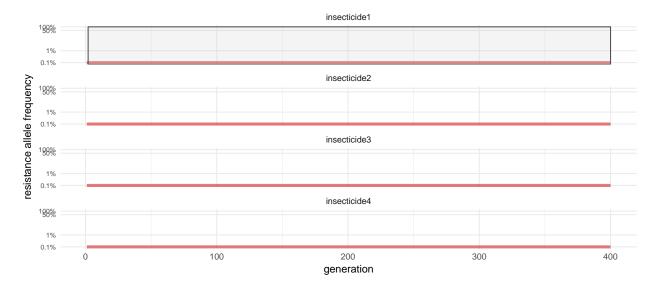
scenario 24 expo_hi 0.59 eff 0.66 rot_interval 49
tot gens deployed under freq 0.5 = 399



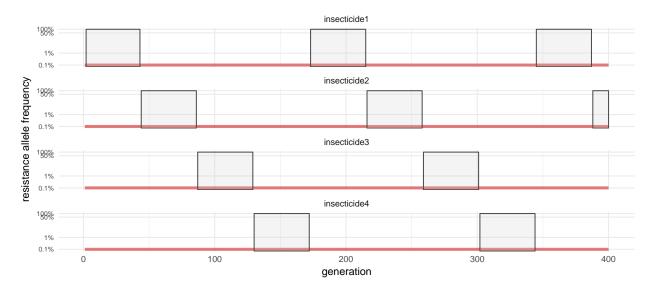
scenario 25 expo_hi 0.22 eff 0.54 rot_interval 0
tot gens deployed under freq 0.5 = 399



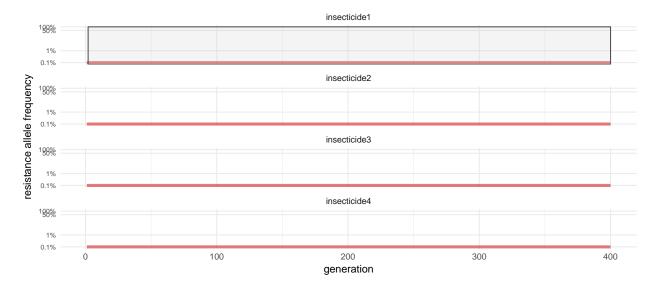
scenario 25 expo_hi 0.22 eff 0.54 rot_interval 22
tot gens deployed under freq 0.5 = 399



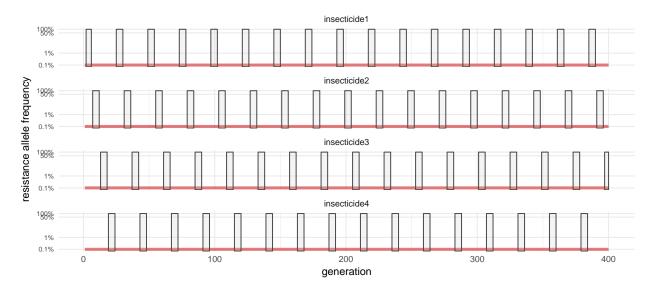
scenario 26 expo_hi 0.12 eff 0.48 rot_interval 0
tot gens deployed under freq 0.5 = 399



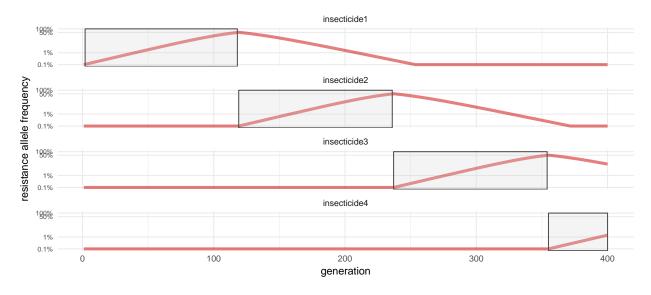
scenario 26 expo_hi 0.12 eff 0.48 rot_interval 43 ## tot gens deployed under freq 0.5 = 399



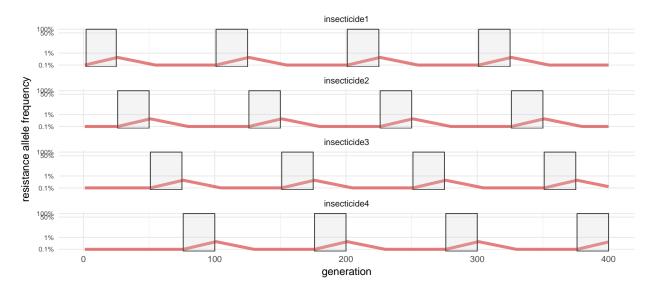
scenario 27 expo_hi 0.11 eff 0.86 rot_interval 0
tot gens deployed under freq 0.5 = 399



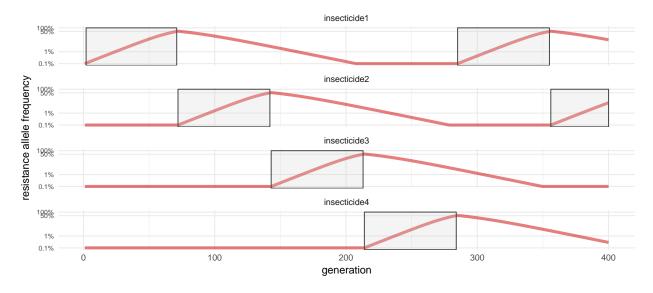
scenario 27 expo_hi 0.11 eff 0.86 rot_interval 6
tot gens deployed under freq 0.5 = 399



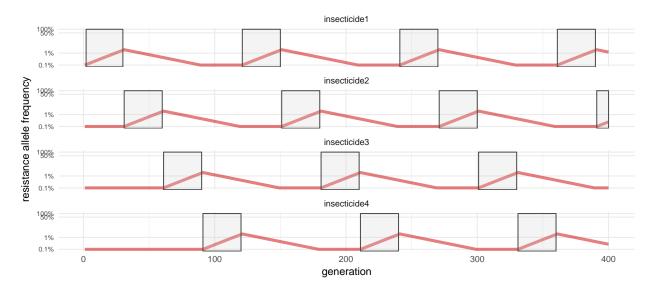
scenario 28 expo_hi 0.51 eff 0.54 rot_interval 0
tot gens deployed under freq 0.5 = 399



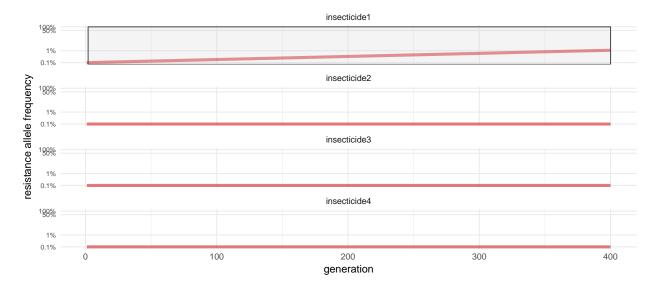
scenario 28 expo_hi 0.51 eff 0.54 rot_interval 25 ## tot gens deployed under freq 0.5 = 399



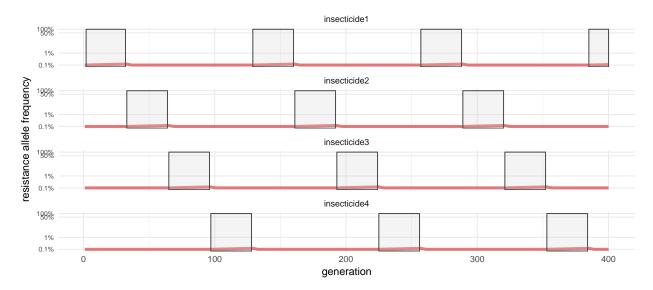
scenario 29 expo_hi 0.8 eff 0.4 rot_interval 0
tot gens deployed under freq 0.5 = 399



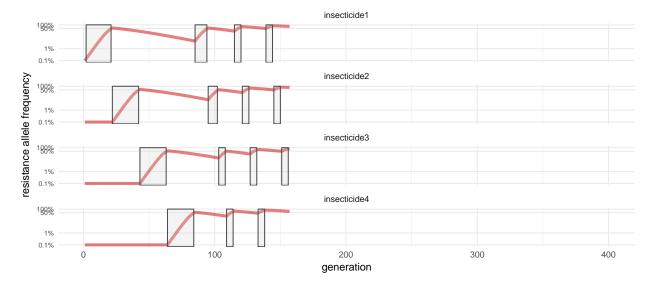
scenario 29 expo_hi 0.8 eff 0.4 rot_interval 30
tot gens deployed under freq 0.5 = 399



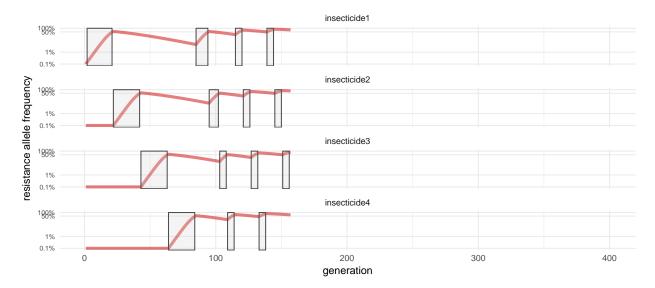
scenario 30 expo_hi 0.31 eff 0.52 rot_interval 0
tot gens deployed under freq 0.5 = 399



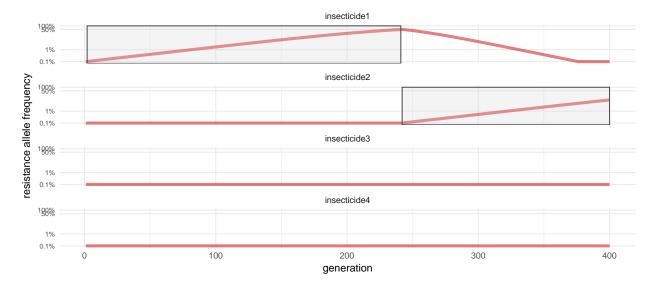
scenario 30 expo_hi 0.31 eff 0.52 rot_interval 32
tot gens deployed under freq 0.5 = 399



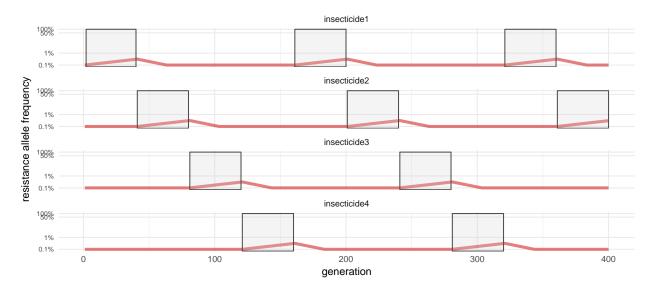
scenario 31 expo_hi 0.87 eff 0.73 rot_interval 0
tot gens deployed under freq 0.5 = 124



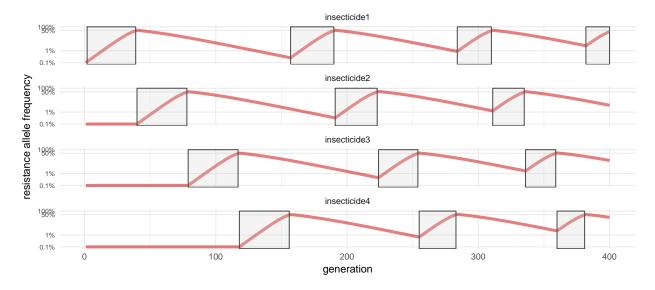
scenario 31 expo_hi 0.87 eff 0.73 rot_interval 31
tot gens deployed under freq 0.5 = 124



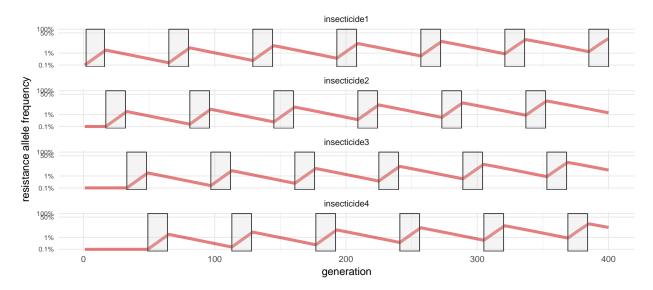
scenario 32 expo_hi 0.57 eff 0.32 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



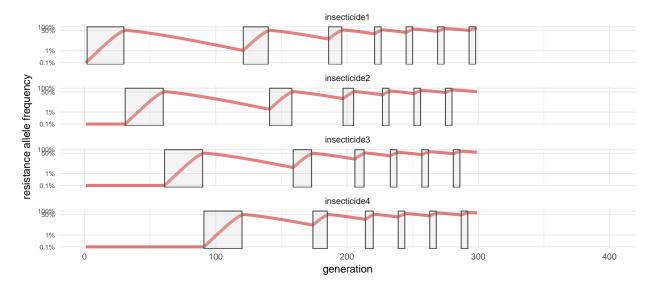
scenario 32 expo_hi 0.57 eff 0.32 rot_interval 40 ## tot gens deployed under freq 0.5 = 399



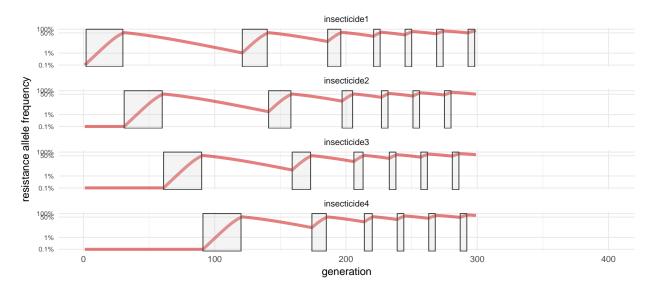
scenario 33 expo_hi 0.88 eff 0.52 rot_interval 0
tot gens deployed under freq 0.5 = 399



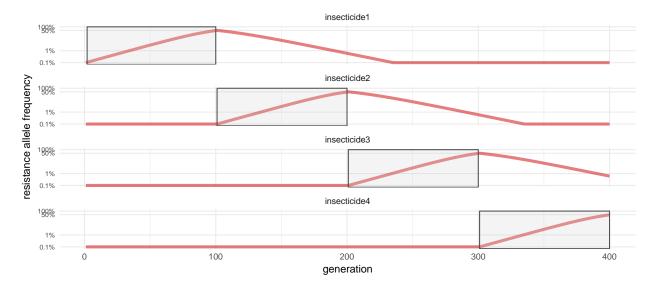
scenario 33 expo_hi 0.88 eff 0.52 rot_interval 16
tot gens deployed under freq 0.5 = 399



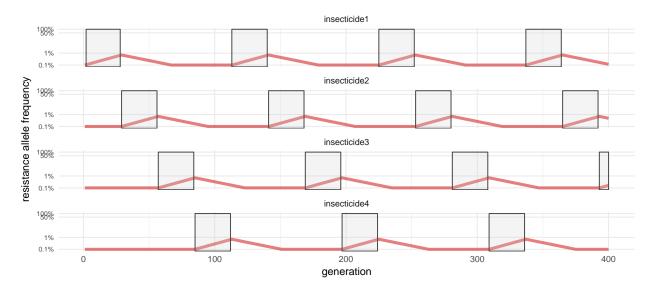
scenario 34 expo_hi 0.88 eff 0.6 rot_interval 0
tot gens deployed under freq 0.5 = 256



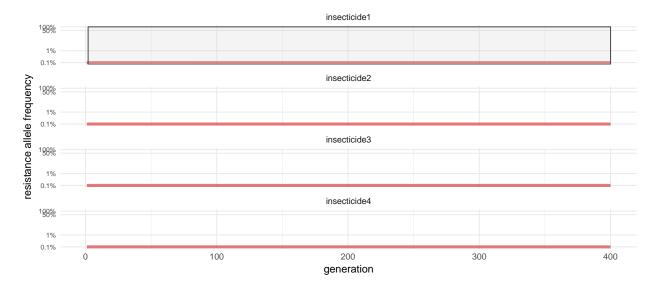
scenario 34 expo_hi 0.88 eff 0.6 rot_interval 33
tot gens deployed under freq 0.5 = 256



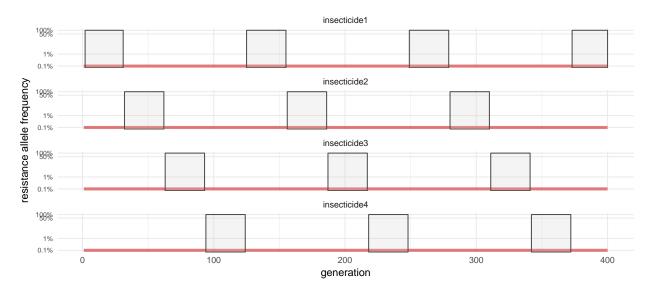
scenario 35 expo_hi 0.35 eff 0.92 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



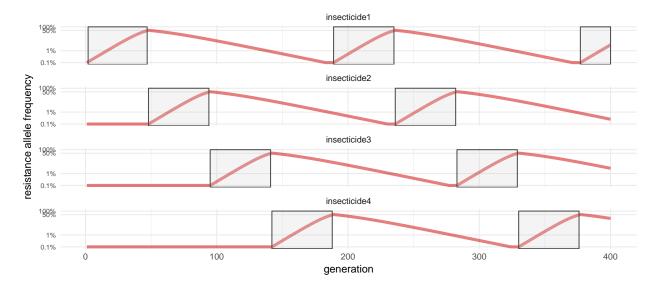
scenario 35 expo_hi 0.35 eff 0.92 rot_interval 28
tot gens deployed under freq 0.5 = 399



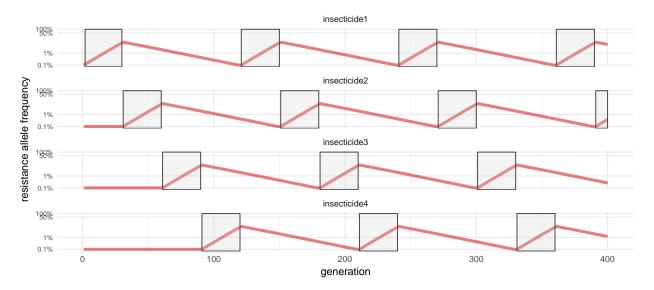
scenario 36 expo_hi 0.18 eff 0.93 rot_interval 0
tot gens deployed under freq 0.5 = 399



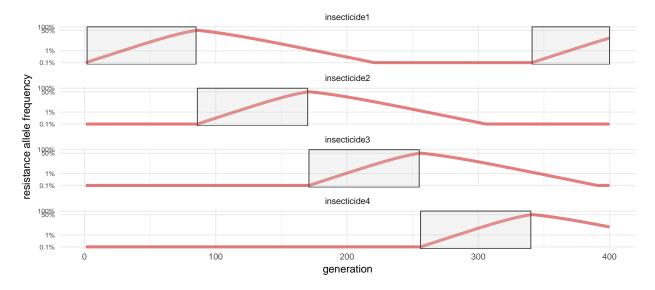
scenario 36 expo_hi 0.18 eff 0.93 rot_interval 31
tot gens deployed under freq 0.5 = 399



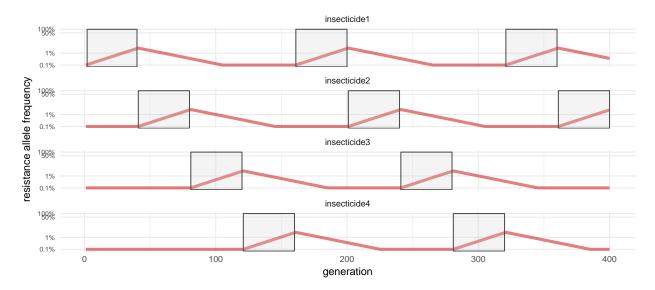
scenario 37 expo_hi 0.79 eff 0.53 rot_interval 0
tot gens deployed under freq 0.5 = 399



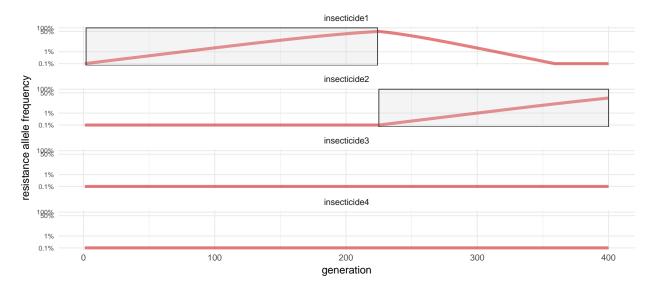
scenario 37 expo_hi 0.79 eff 0.53 rot_interval 30
tot gens deployed under freq 0.5 = 399



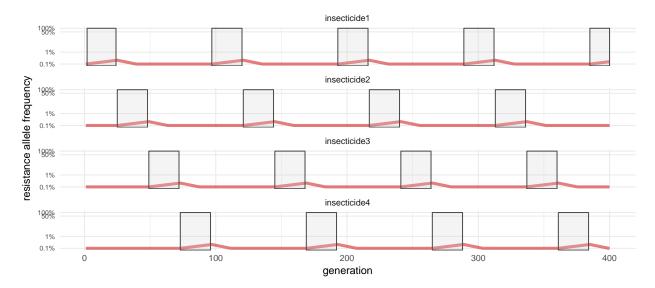
scenario 38 expo_hi 0.39 eff 0.9 rot_interval 0
tot gens deployed under freq 0.5 = 399



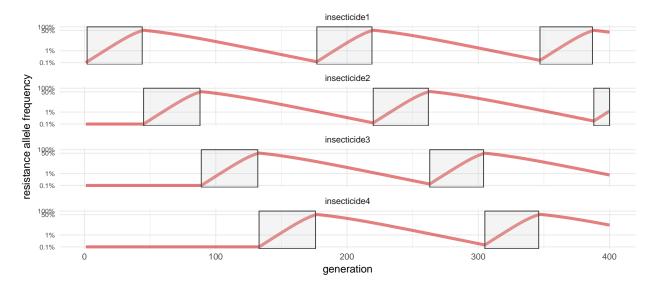
scenario 38 expo_hi 0.39 eff 0.9 rot_interval 40 ## tot gens deployed under freq 0.5 = 399



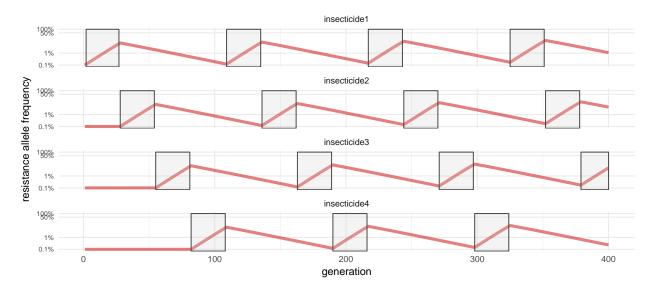
scenario 39 expo_hi 0.31 eff 0.75 rot_interval 0
tot gens deployed under freq 0.5 = 399



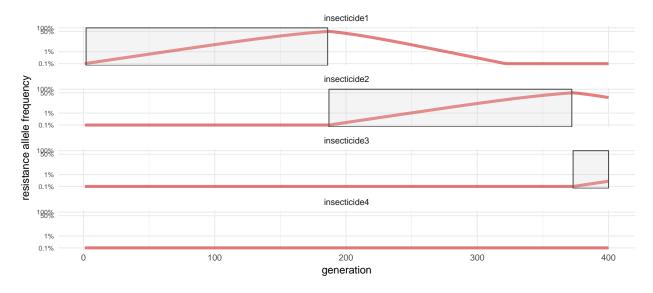
scenario 39 expo_hi 0.31 eff 0.75 rot_interval 24 ## tot gens deployed under freq 0.5 = 399



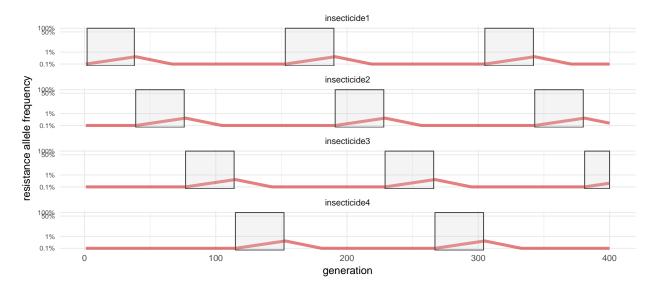
scenario 40 expo_hi 0.49 eff 0.95 rot_interval 0
tot gens deployed under freq 0.5 = 399



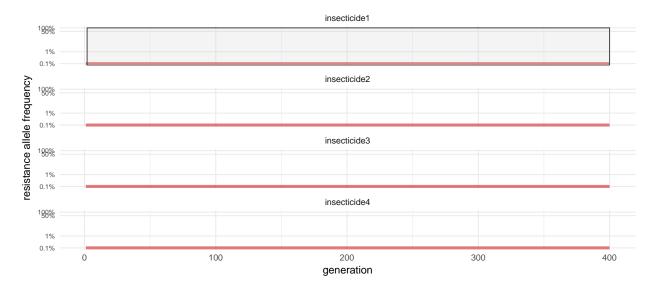
scenario 40 expo_hi 0.49 eff 0.95 rot_interval 27 ## tot gens deployed under freq 0.5 = 399



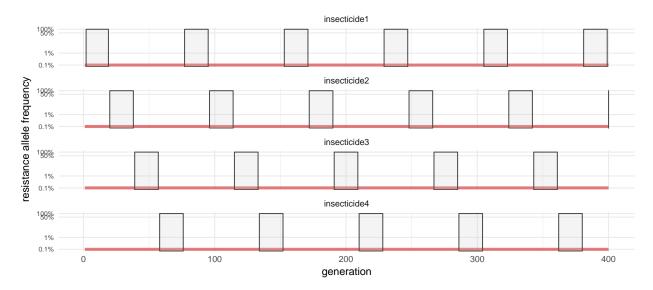
scenario 41 expo_hi 0.39 eff 0.6 rot_interval 0
tot gens deployed under freq 0.5 = 399



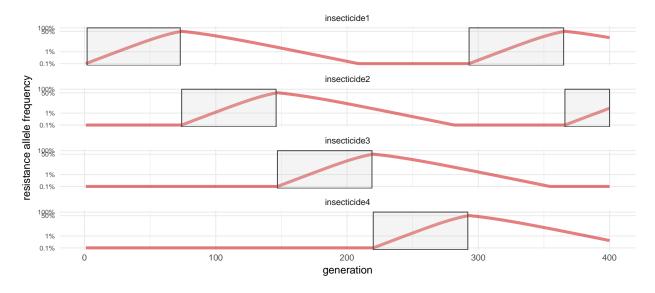
scenario 41 expo_hi 0.39 eff 0.6 rot_interval 38
tot gens deployed under freq 0.5 = 399



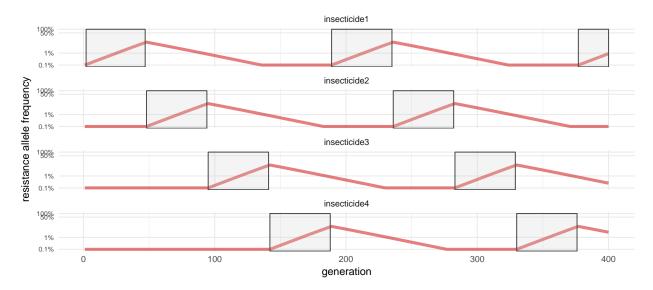
scenario 42 expo_hi 0.27 eff 0.47 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



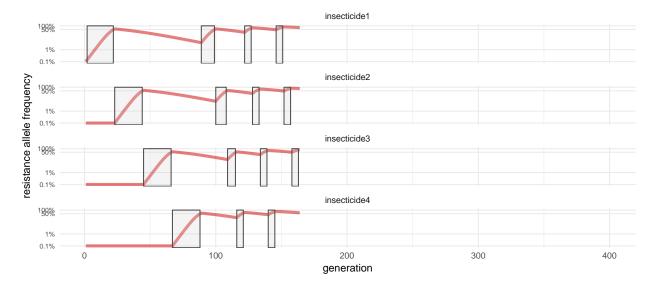
scenario 42 expo_hi 0.27 eff 0.47 rot_interval 19 ## tot gens deployed under freq 0.5 = 399



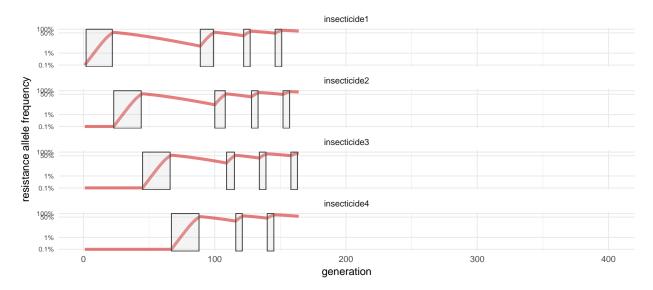
scenario 43 expo_hi 0.52 eff 0.68 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



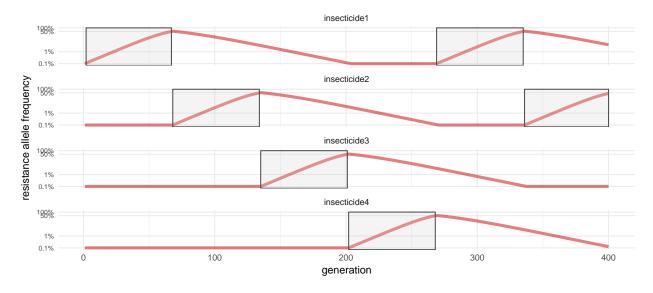
scenario 43 expo_hi 0.52 eff 0.68 rot_interval 47 ## tot gens deployed under freq 0.5 = 399



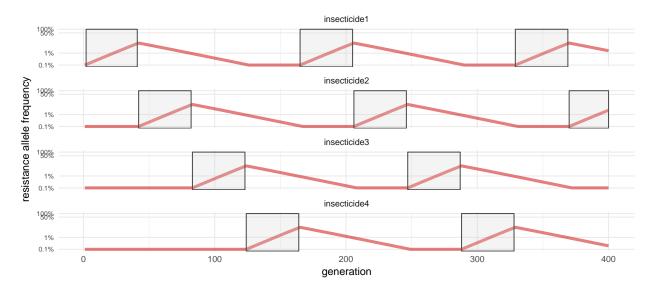
scenario 44 expo_hi 0.77 eff 0.82 rot_interval 0 ## tot gens deployed under freq 0.5 = 133



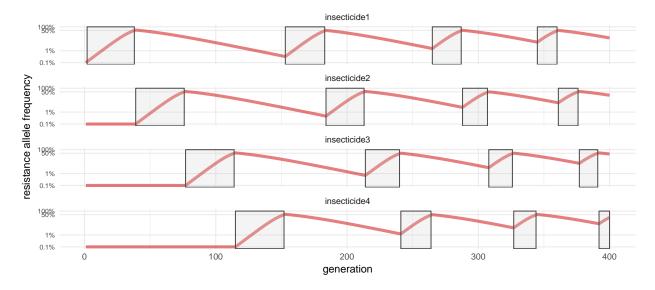
scenario 44 expo_hi 0.77 eff 0.82 rot_interval 38 ## tot gens deployed under freq 0.5 = 133



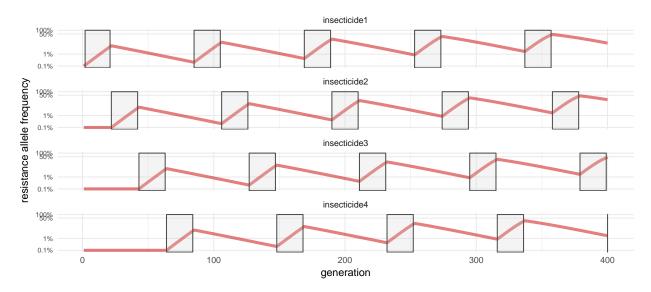
scenario 45 expo_hi 0.89 eff 0.36 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



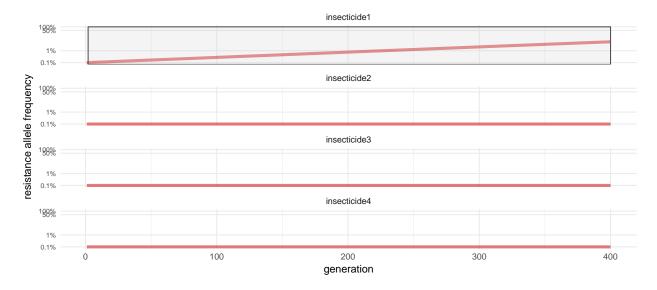
scenario 45 expo_hi 0.89 eff 0.36 rot_interval 41
tot gens deployed under freq 0.5 = 399



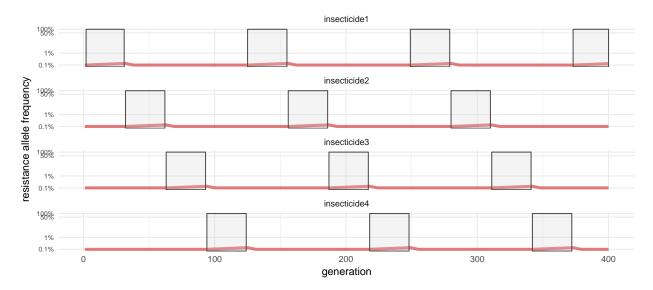
scenario 46 expo_hi 0.68 eff 0.72 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



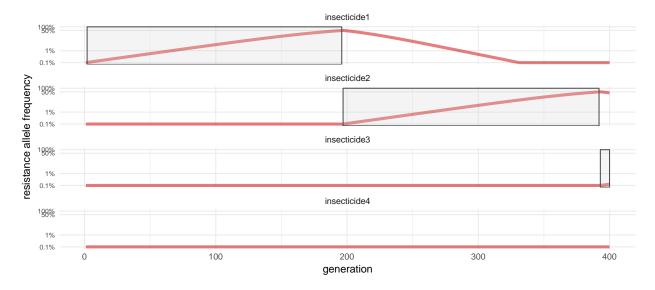
scenario 46 expo_hi 0.68 eff 0.72 rot_interval 21
tot gens deployed under freq 0.5 = 399



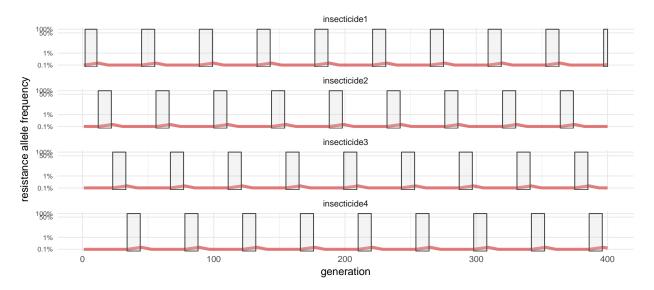
scenario 47 expo_hi 0.45 eff 0.32 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



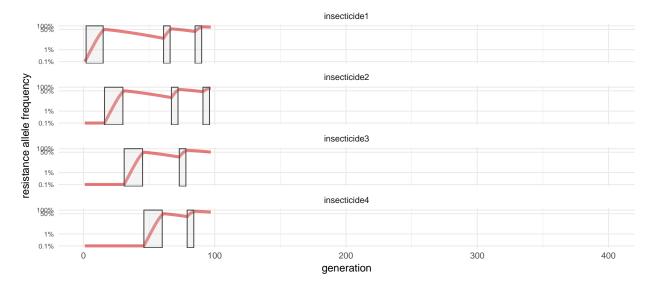
scenario 47 expo_hi 0.45 eff 0.32 rot_interval 31
tot gens deployed under freq 0.5 = 399



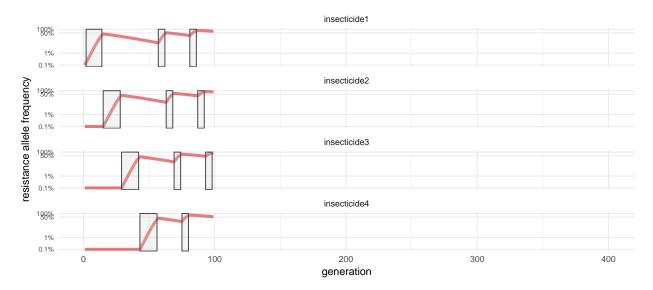
scenario 48 expo_hi 0.26 eff 0.96 rot_interval 0
tot gens deployed under freq 0.5 = 399



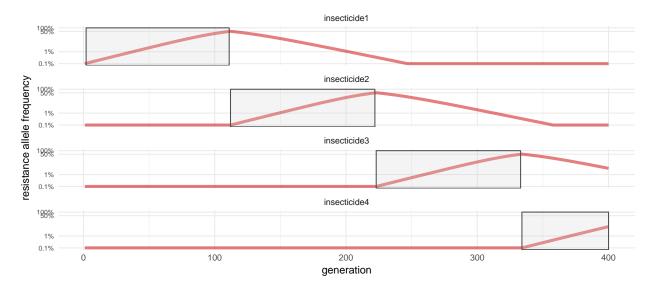
scenario 48 expo_hi 0.26 eff 0.96 rot_interval 11
tot gens deployed under freq 0.5 = 399



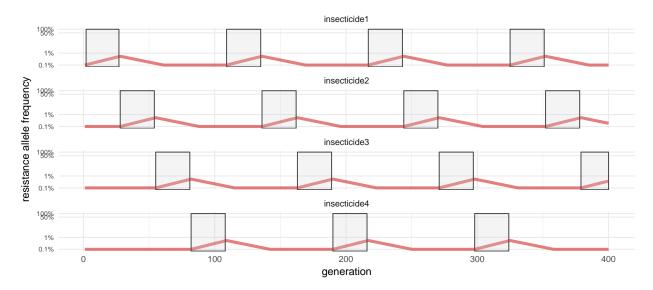
scenario 49 expo_hi 0.83 eff 0.87 rot_interval 0
tot gens deployed under freq 0.5 = 80



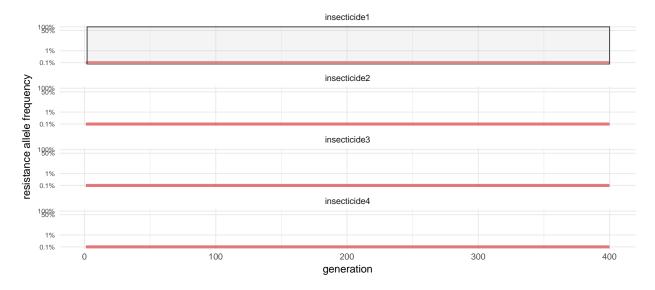
scenario 49 expo_hi 0.83 eff 0.87 rot_interval 14
tot gens deployed under freq 0.5 = 81



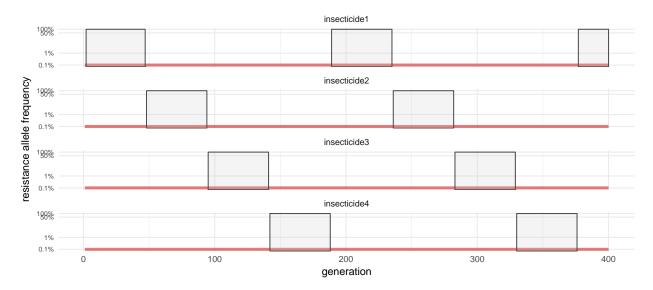
scenario 50 expo_hi 0.5 eff 0.57 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



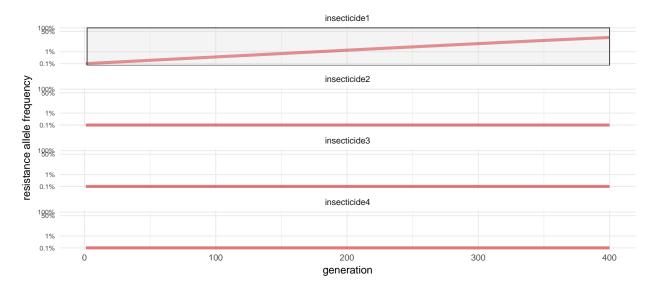
scenario 50 expo_hi 0.5 eff 0.57 rot_interval 27
tot gens deployed under freq 0.5 = 399



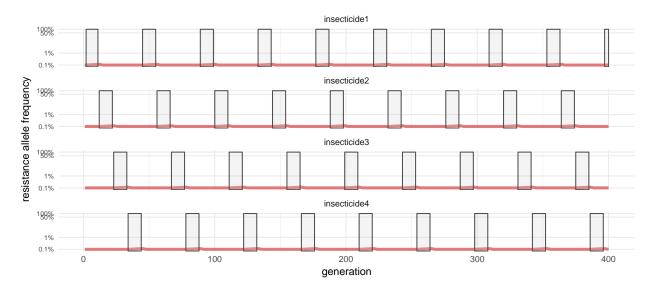
scenario 51 expo_hi 0.13 eff 0.49 rot_interval 0
tot gens deployed under freq 0.5 = 399



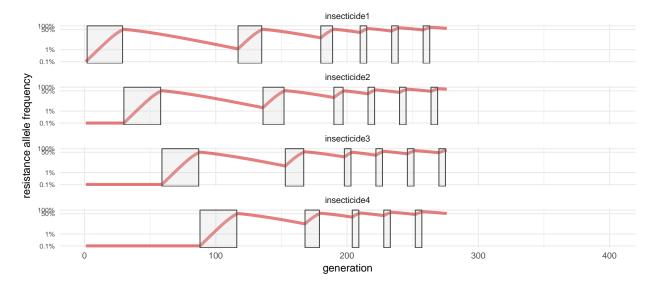
scenario 51 expo_hi 0.13 eff 0.49 rot_interval 47 ## tot gens deployed under freq 0.5 = 399



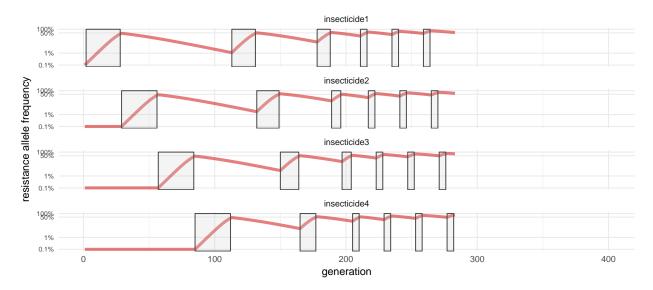
scenario 52 expo_hi 0.28 eff 0.66 rot_interval 0
tot gens deployed under freq 0.5 = 399



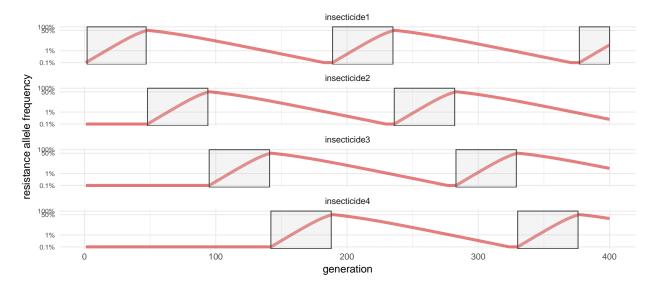
scenario 52 expo_hi 0.28 eff 0.66 rot_interval 11
tot gens deployed under freq 0.5 = 399



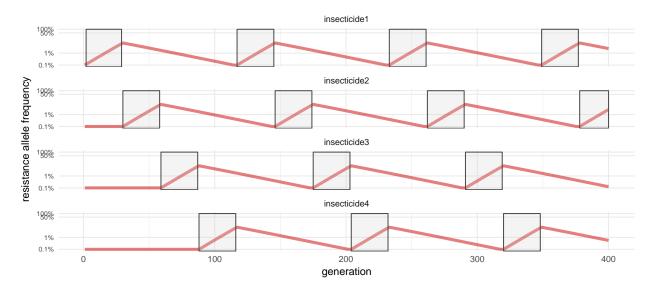
scenario 53 expo_hi 0.69 eff 0.81 rot_interval 0 ## tot gens deployed under freq 0.5 = 239



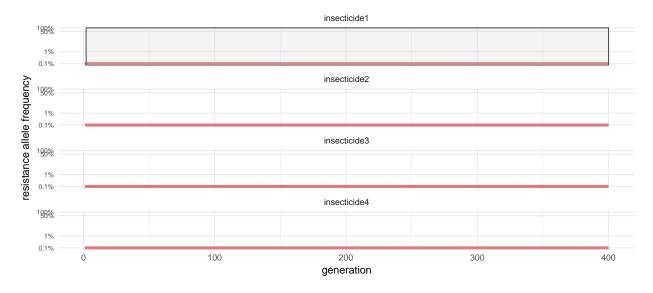
scenario 53 expo_hi 0.69 eff 0.81 rot_interval 28
tot gens deployed under freq 0.5 = 242



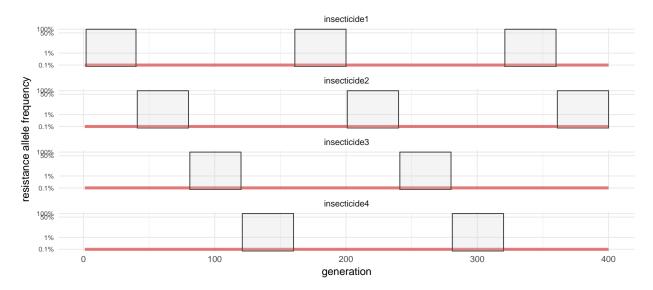
scenario 54 expo_hi 0.69 eff 0.62 rot_interval 0
tot gens deployed under freq 0.5 = 399



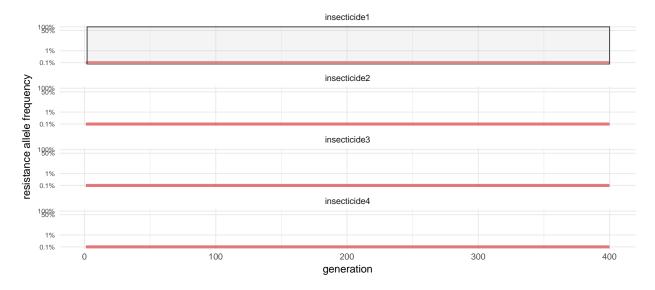
scenario 54 expo_hi 0.69 eff 0.62 rot_interval 29
tot gens deployed under freq 0.5 = 399



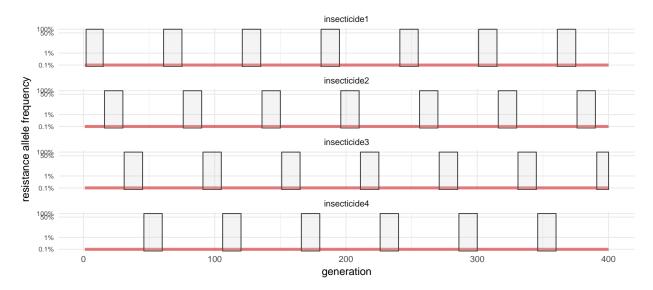
scenario 55 expo_hi 0.11 eff 0.57 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



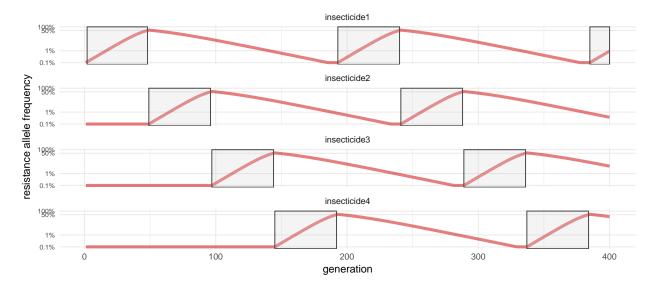
scenario 55 expo_hi 0.11 eff 0.57 rot_interval 40
tot gens deployed under freq 0.5 = 399



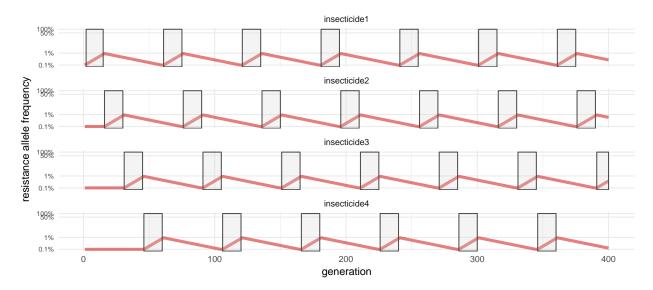
scenario 56 expo_hi 0.2 eff 0.37 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



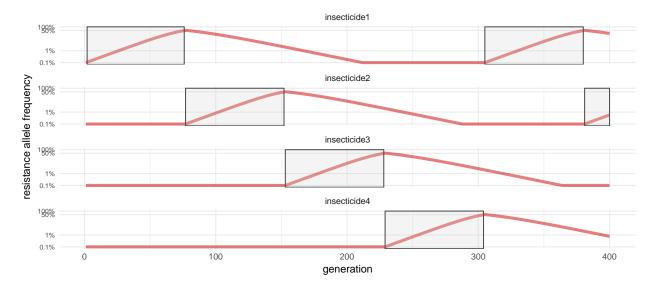
scenario 56 expo_hi 0.2 eff 0.37 rot_interval 15
tot gens deployed under freq 0.5 = 399



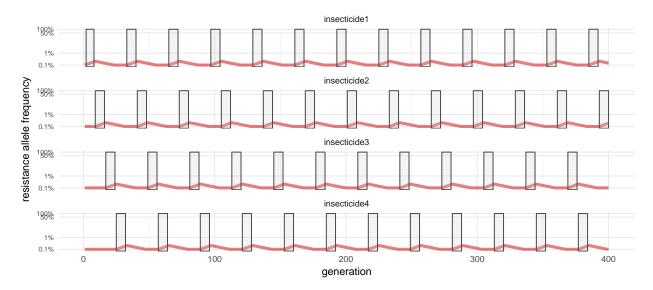
scenario 57 expo_hi 0.54 eff 0.82 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



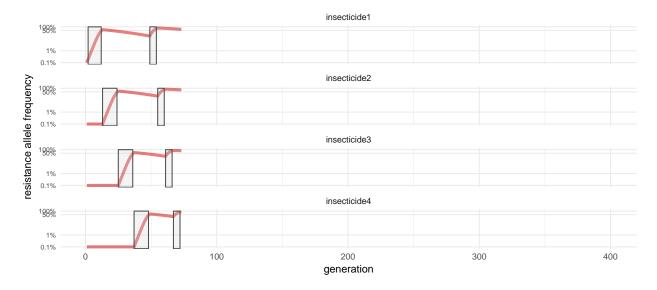
scenario 57 expo_hi 0.54 eff 0.82 rot_interval 15
tot gens deployed under freq 0.5 = 399



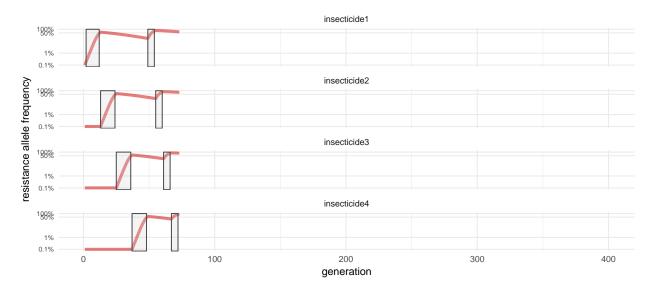
scenario 58 expo_hi 0.72 eff 0.44 rot_interval 0
tot gens deployed under freq 0.5 = 399



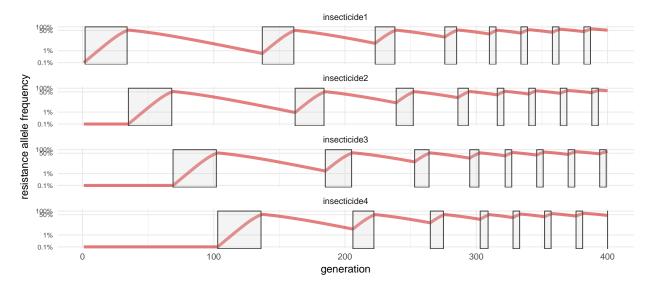
scenario 58 expo_hi 0.72 eff 0.44 rot_interval 8
tot gens deployed under freq 0.5 = 399



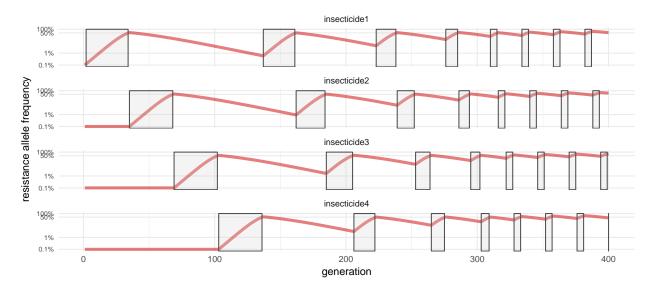
scenario 59 expo_hi 0.89 eff 0.88 rot_interval 0
tot gens deployed under freq 0.5 = 57



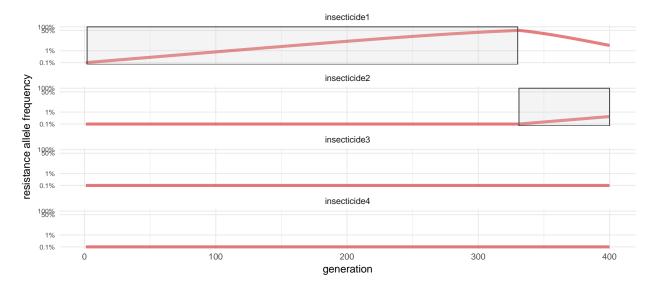
scenario 59 expo_hi 0.89 eff 0.88 rot_interval 32
tot gens deployed under freq 0.5 = 57



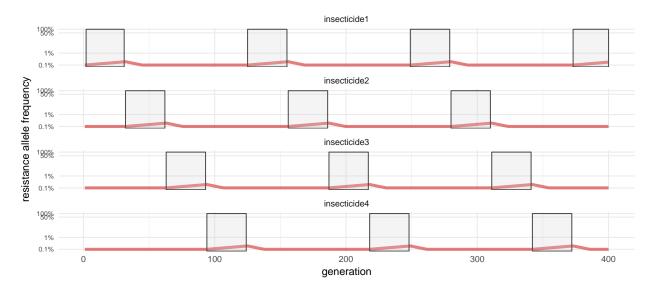
scenario 60 expo_hi 0.7 eff 0.74 rot_interval 0
tot gens deployed under freq 0.5 = 367



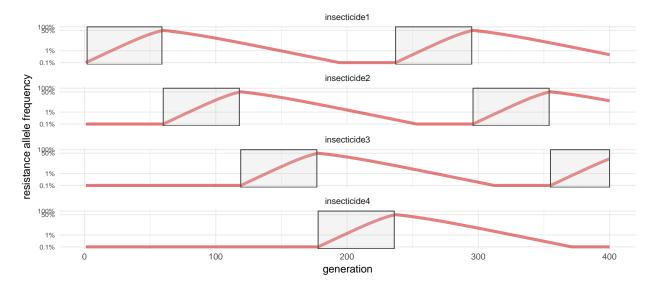
scenario 60 expo_hi 0.7 eff 0.74 rot_interval 41 ## tot gens deployed under freq 0.5 = 367



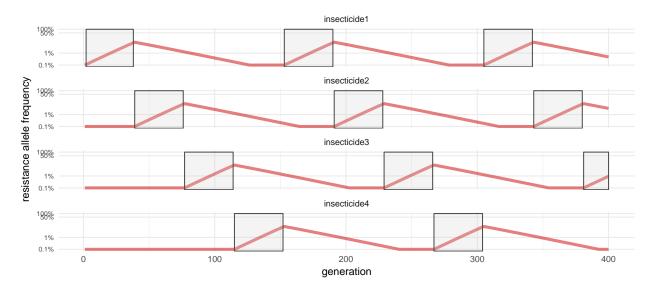
scenario 61 expo_hi 0.25 eff 0.87 rot_interval 0
tot gens deployed under freq 0.5 = 399



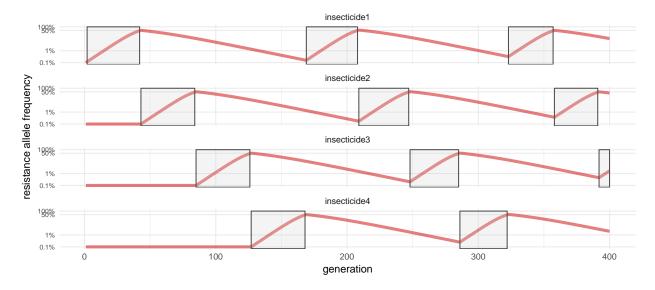
scenario 61 expo_hi 0.25 eff 0.87 rot_interval 31
tot gens deployed under freq 0.5 = 399



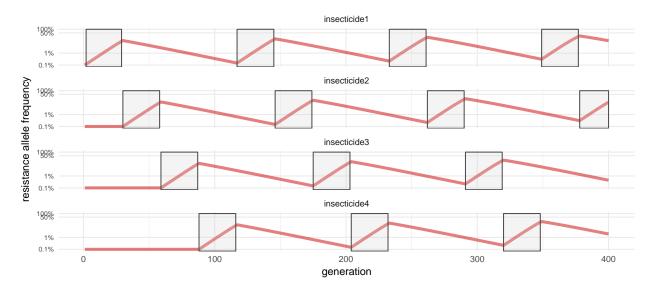
scenario 62 expo_hi 0.48 eff 0.84 rot_interval 0
tot gens deployed under freq 0.5 = 399



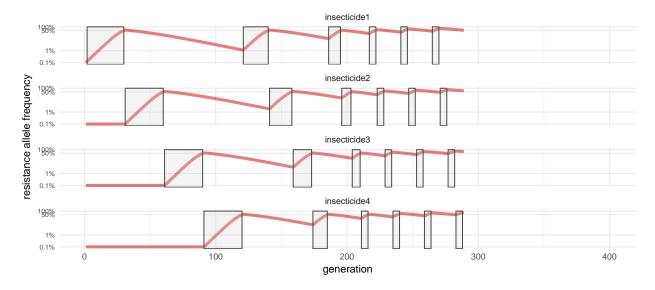
scenario 62 expo_hi 0.48 eff 0.84 rot_interval 38
tot gens deployed under freq 0.5 = 399



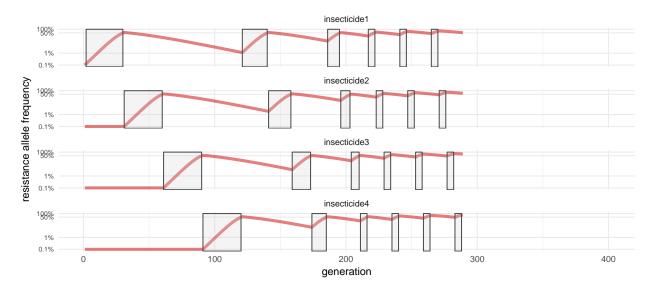
scenario 63 expo_hi 0.66 eff 0.7 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



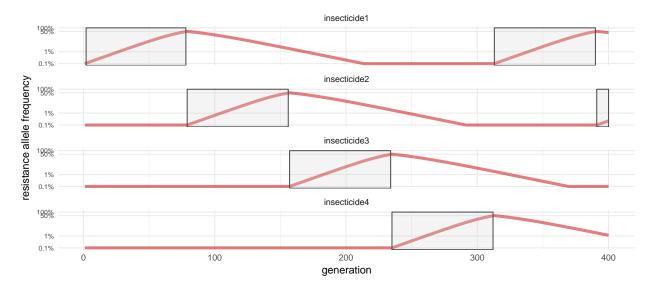
scenario 63 expo_hi 0.66 eff 0.7 rot_interval 29
tot gens deployed under freq 0.5 = 399



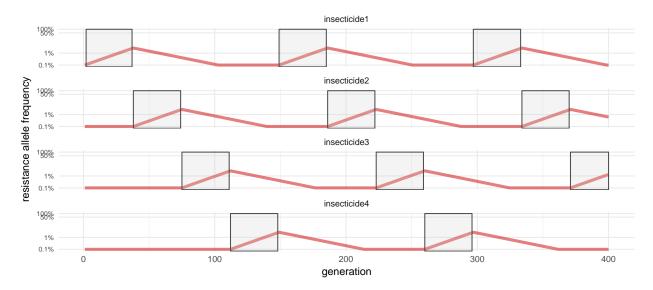
scenario 64 expo_hi 0.65 eff 0.85 rot_interval 0 ## tot gens deployed under freq 0.5 = 249



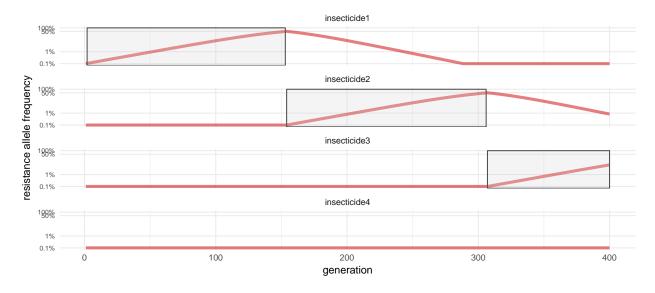
scenario 64 expo_hi 0.65 eff 0.85 rot_interval 45 ## tot gens deployed under freq 0.5 = 249



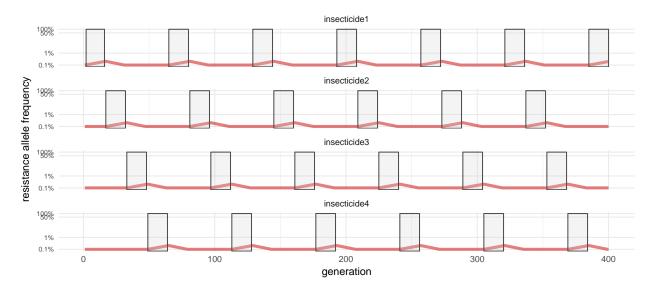
scenario 65 expo_hi 0.63 eff 0.52 rot_interval 0
tot gens deployed under freq 0.5 = 399



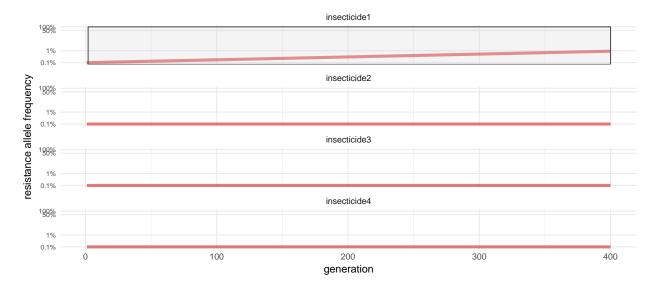
scenario 65 expo_hi 0.63 eff 0.52 rot_interval 37
tot gens deployed under freq 0.5 = 399



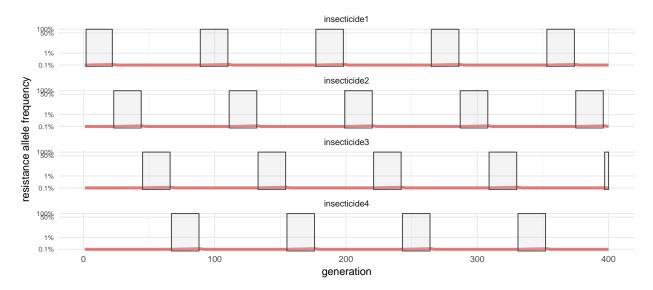
scenario 66 expo_hi 0.49 eff 0.5 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



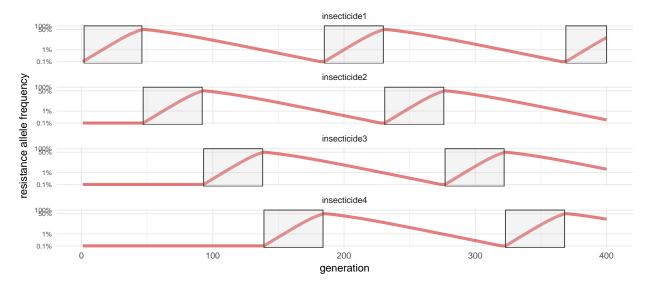
scenario 66 expo_hi 0.49 eff 0.5 rot_interval 16 ## tot gens deployed under freq 0.5 = 399



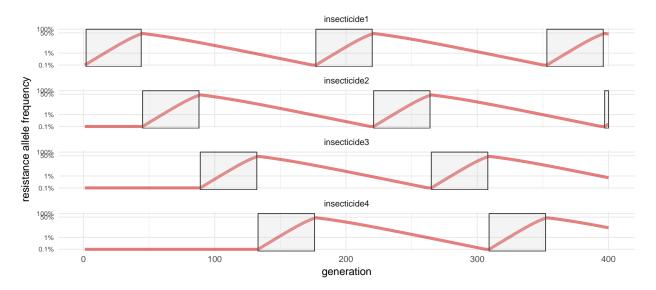
scenario 67 expo_hi 0.44 eff 0.3 rot_interval 0
tot gens deployed under freq 0.5 = 399



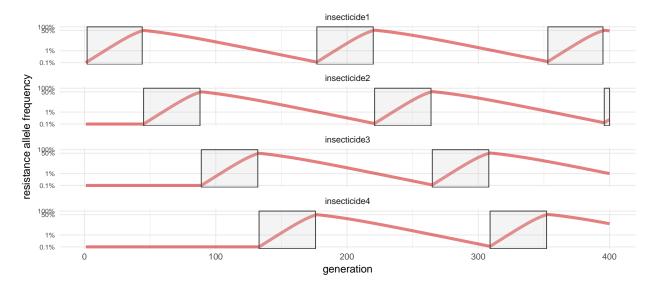
scenario 67 expo_hi 0.44 eff 0.3 rot_interval 22
tot gens deployed under freq 0.5 = 399



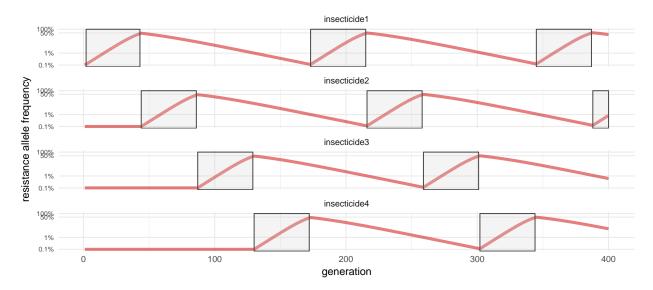
scenario 68 expo_hi 0.58 eff 0.78 rot_interval 0
tot gens deployed under freq 0.5 = 399



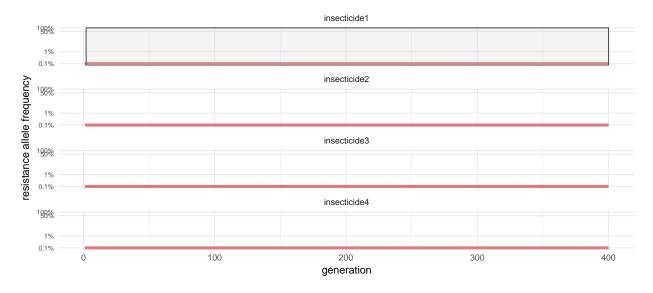
scenario 68 expo_hi 0.58 eff 0.78 rot_interval 44 ## tot gens deployed under freq 0.5 = 399



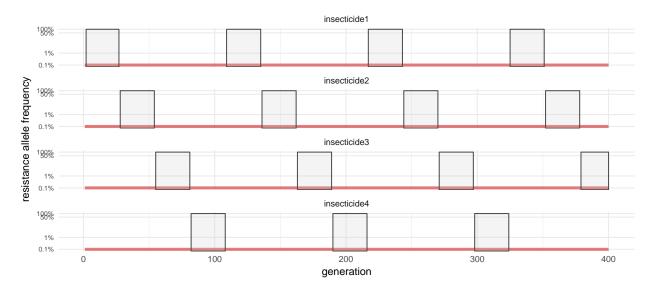
scenario 69 expo_hi 0.48 eff 0.97 rot_interval 0
tot gens deployed under freq 0.5 = 399



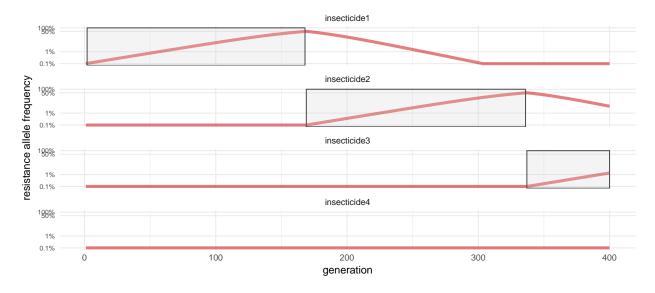
scenario 69 expo_hi 0.48 eff 0.97 rot_interval 43 ## tot gens deployed under freq 0.5 = 399



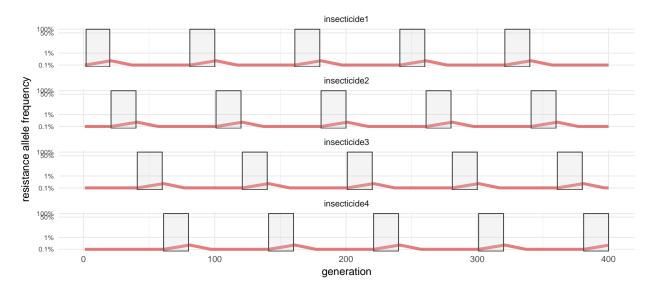
scenario 70 expo_hi 0.11 eff 0.91 rot_interval 0
tot gens deployed under freq 0.5 = 399



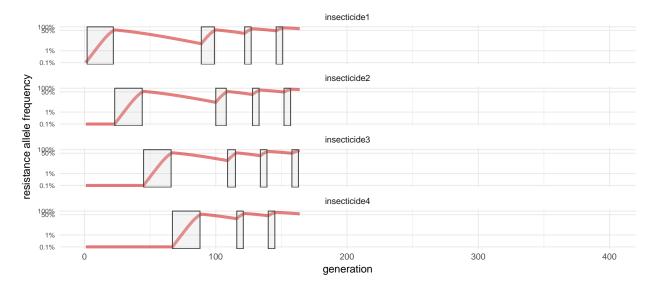
scenario 70 expo_hi 0.11 eff 0.91 rot_interval 27
tot gens deployed under freq 0.5 = 399



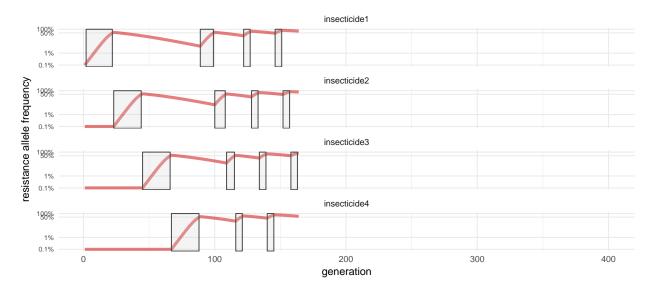
scenario 71 expo_hi 0.42 eff 0.57 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



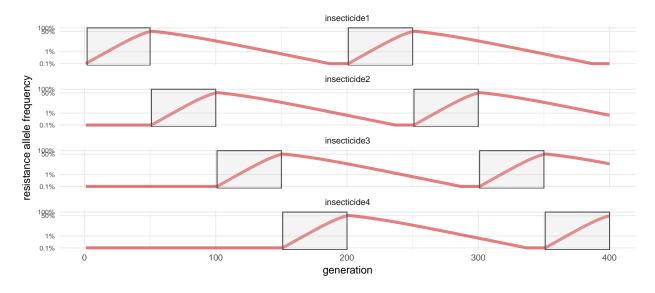
scenario 71 expo_hi 0.42 eff 0.57 rot_interval 20
tot gens deployed under freq 0.5 = 399



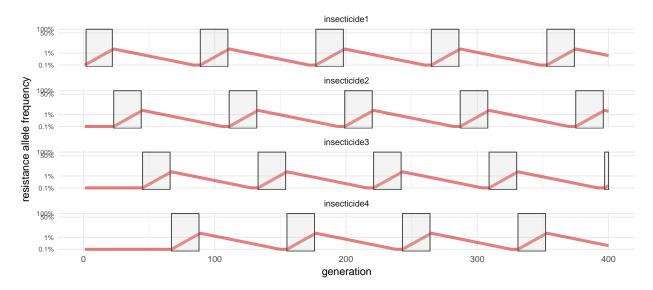
scenario 72 expo_hi 0.65 eff 0.99 rot_interval 0
tot gens deployed under freq 0.5 = 134



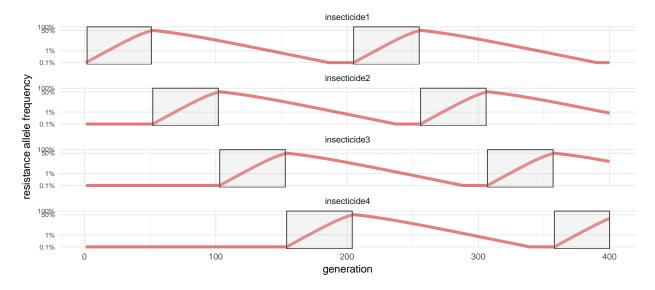
scenario 72 expo_hi 0.65 eff 0.99 rot_interval 22 ## tot gens deployed under freq 0.5 = 134



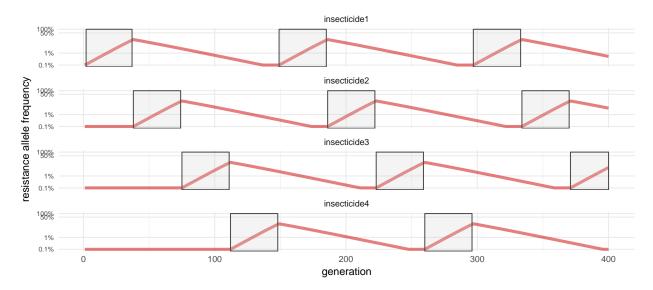
scenario 73 expo_hi 0.54 eff 0.81 rot_interval 0
tot gens deployed under freq 0.5 = 399



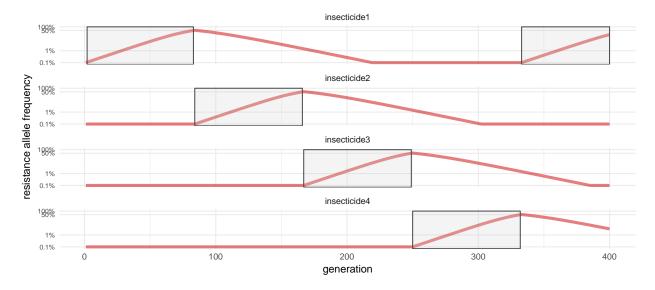
scenario 73 expo_hi 0.54 eff 0.81 rot_interval 22
tot gens deployed under freq 0.5 = 399



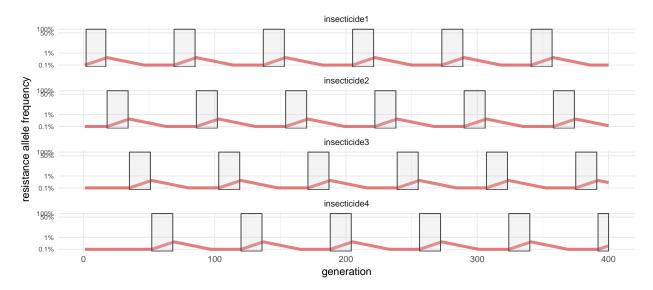
scenario 74 expo_hi 0.62 eff 0.68 rot_interval 0
tot gens deployed under freq 0.5 = 399



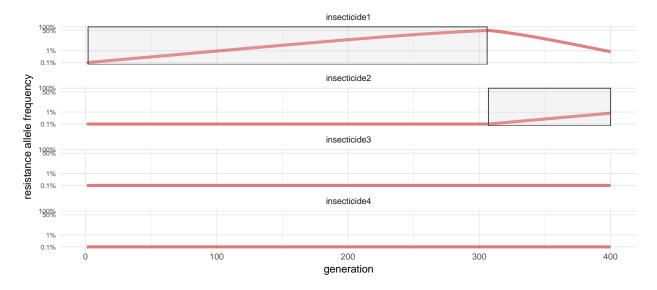
scenario 74 expo_hi 0.62 eff 0.68 rot_interval 37
tot gens deployed under freq 0.5 = 399



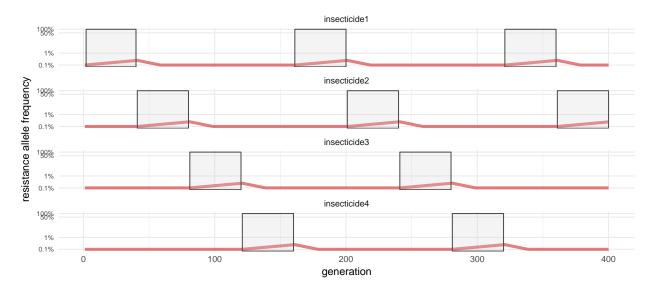
scenario 75 expo_hi 0.45 eff 0.77 rot_interval 0
tot gens deployed under freq 0.5 = 399



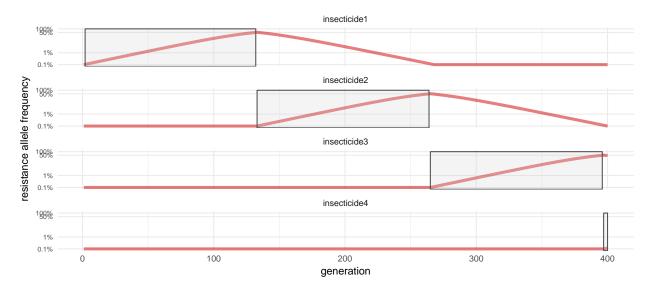
scenario 75 expo_hi 0.45 eff 0.77 rot_interval 17
tot gens deployed under freq 0.5 = 399



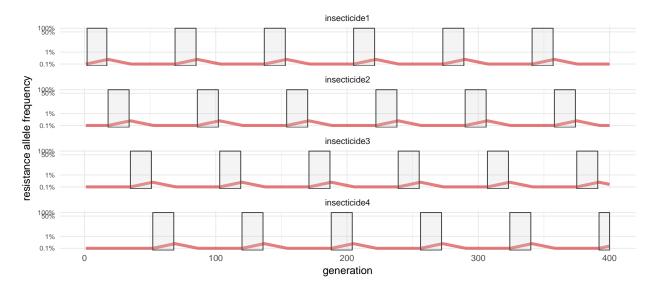
scenario 76 expo_hi 0.49 eff 0.37 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



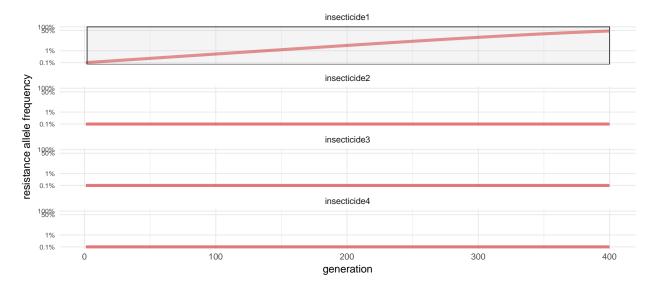
scenario 76 expo_hi 0.49 eff 0.37 rot_interval 40 ## tot gens deployed under freq 0.5 = 399



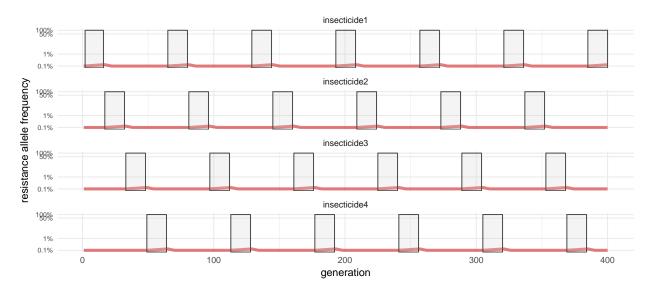
scenario 77 expo_hi 0.45 eff 0.6 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



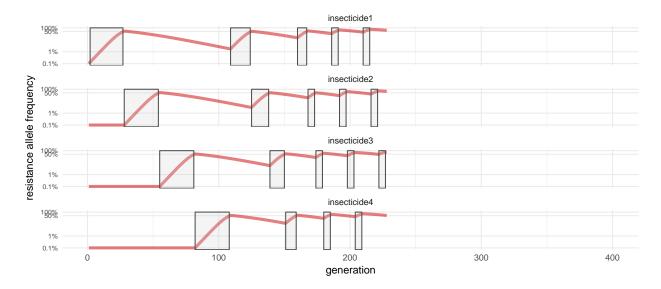
scenario 77 expo_hi 0.45 eff 0.6 rot_interval 17 ## tot gens deployed under freq 0.5 = 399



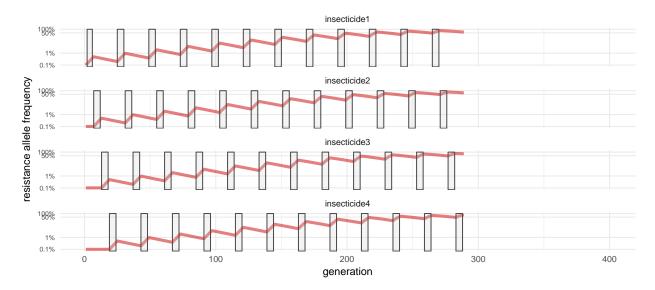
scenario 78 expo_hi 0.22 eff 0.93 rot_interval 0
tot gens deployed under freq 0.5 = 399



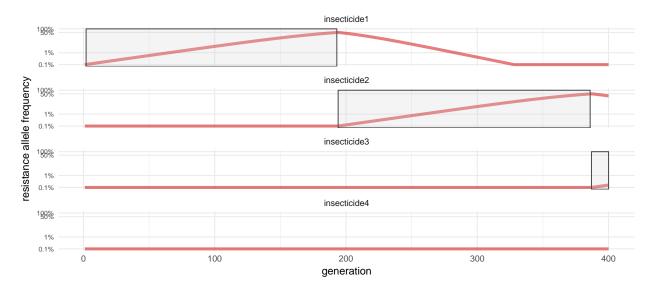
scenario 78 expo_hi 0.22 eff 0.93 rot_interval 16
tot gens deployed under freq 0.5 = 399



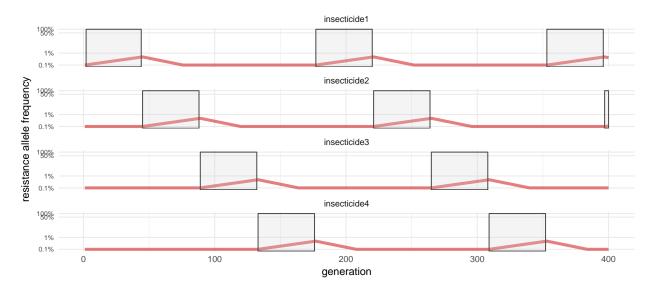
scenario 79 expo_hi 0.79 eff 0.72 rot_interval 0 ## tot gens deployed under freq 0.5 = 199



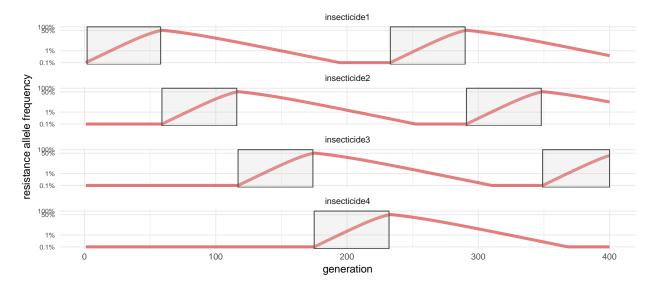
scenario 79 expo_hi 0.79 eff 0.72 rot_interval 6 ## tot gens deployed under freq 0.5 = 251



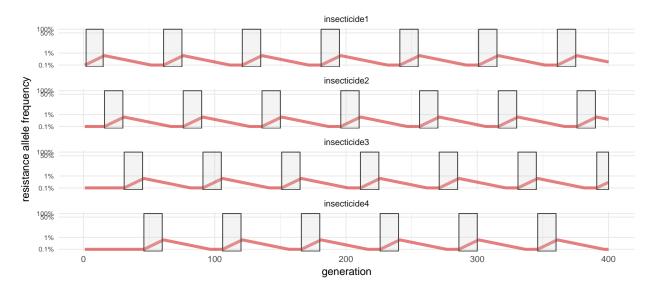
scenario 80 expo_hi 0.62 eff 0.32 rot_interval 0
tot gens deployed under freq 0.5 = 399



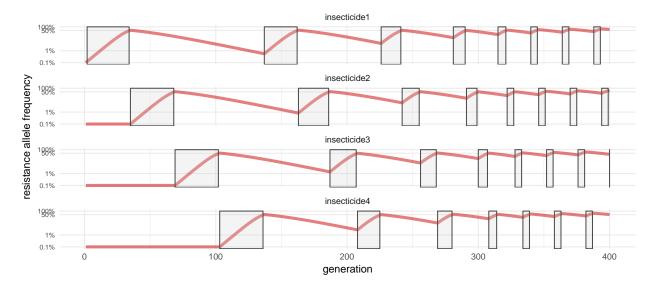
scenario 80 expo_hi 0.62 eff 0.32 rot_interval 44 ## tot gens deployed under freq 0.5 = 399



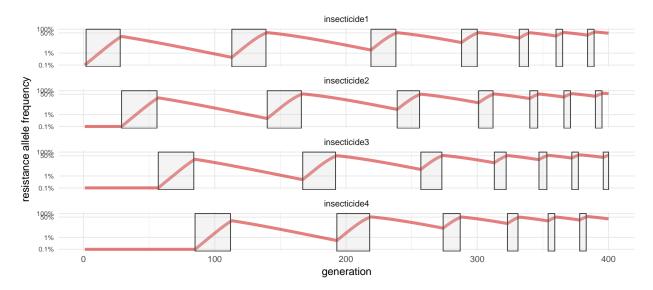
scenario 81 expo_hi 0.88 eff 0.41 rot_interval 0
tot gens deployed under freq 0.5 = 399



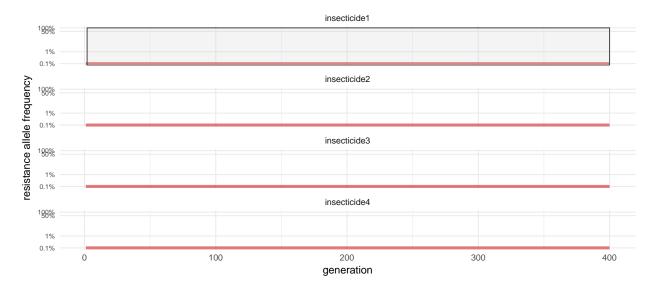
scenario 81 expo_hi 0.88 eff 0.41 rot_interval 15
tot gens deployed under freq 0.5 = 399



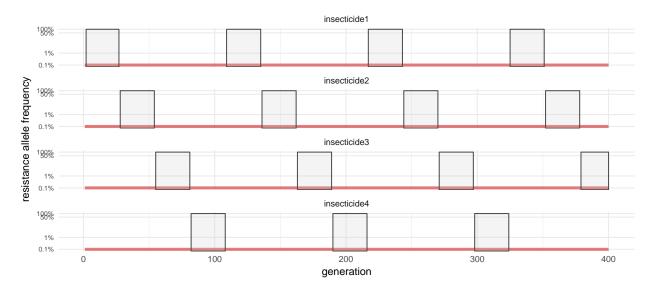
scenario 82 expo_hi 0.55 eff 0.95 rot_interval 0 ## tot gens deployed under freq 0.5 = 376



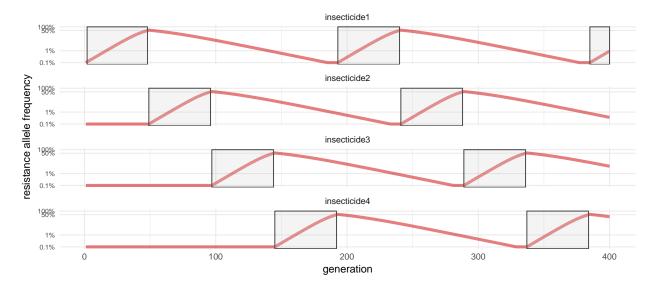
scenario 82 expo_hi 0.55 eff 0.95 rot_interval 28 ## tot gens deployed under freq 0.5 = 390



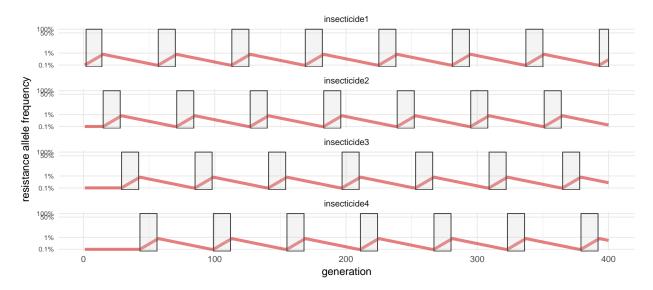
scenario 83 expo_hi 0.16 eff 0.37 rot_interval 0
tot gens deployed under freq 0.5 = 399



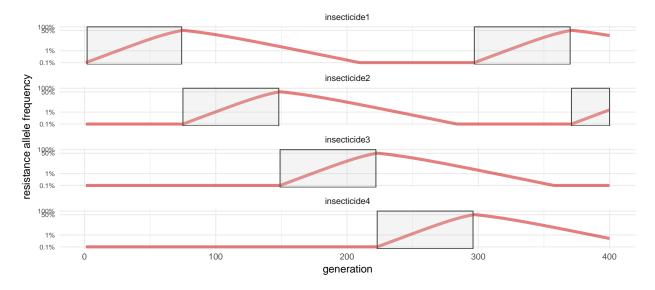
scenario 83 expo_hi 0.16 eff 0.37 rot_interval 27
tot gens deployed under freq 0.5 = 399



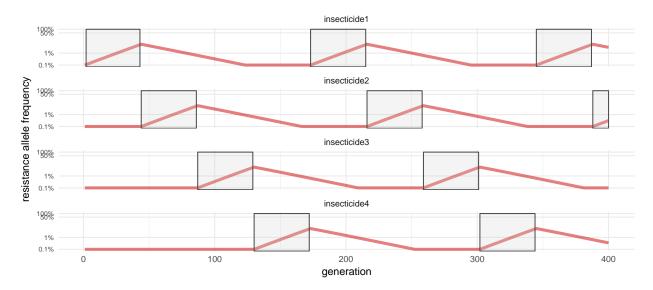
scenario 84 expo_hi 0.59 eff 0.74 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



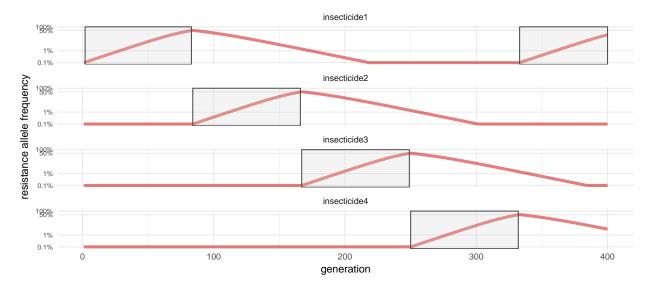
scenario 84 expo_hi 0.59 eff 0.74 rot_interval 14 ## tot gens deployed under freq 0.5 = 399



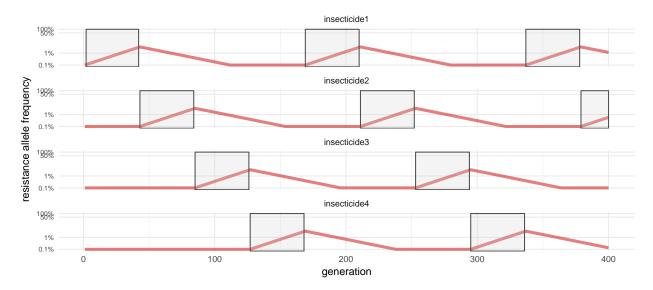
scenario 85 expo_hi 0.57 eff 0.6 rot_interval 0 ## tot gens deployed under freq 0.5 = 399



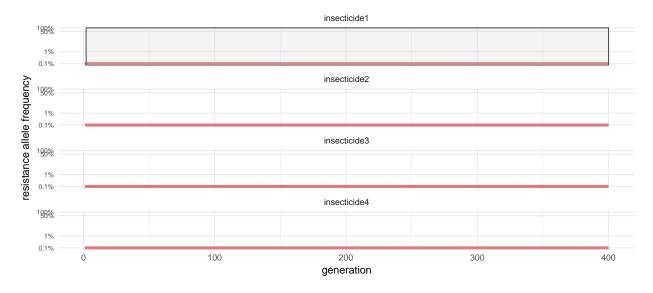
scenario 85 expo_hi 0.57 eff 0.6 rot_interval 43 ## tot gens deployed under freq 0.5 = 399



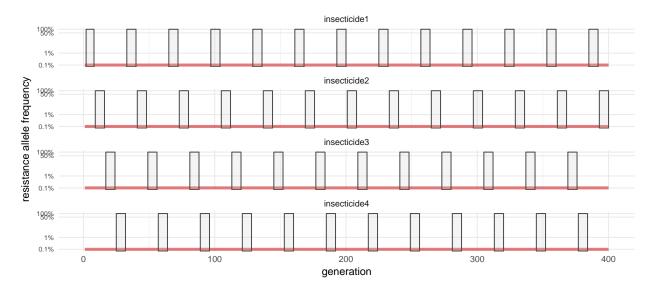
scenario 86 expo_hi 0.86 eff 0.32 rot_interval 0
tot gens deployed under freq 0.5 = 399



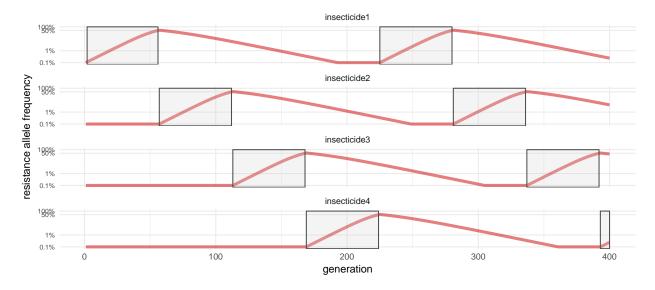
scenario 86 expo_hi 0.86 eff 0.32 rot_interval 42
tot gens deployed under freq 0.5 = 399



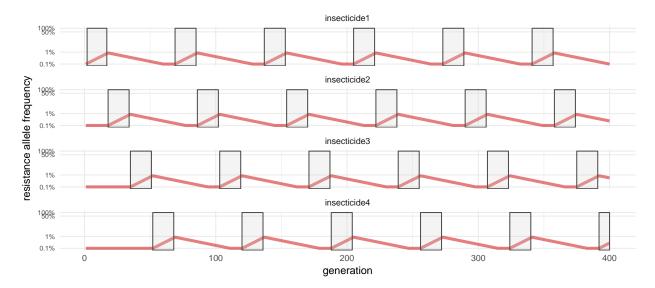
scenario 87 expo_hi 0.13 eff 0.88 rot_interval 0
tot gens deployed under freq 0.5 = 399



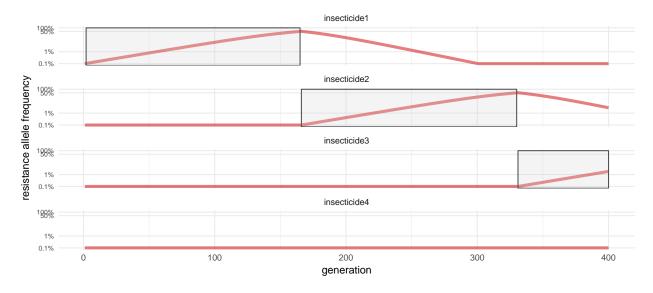
scenario 87 expo_hi 0.13 eff 0.88 rot_interval 8 ## tot gens deployed under freq 0.5 = 399 $\,$



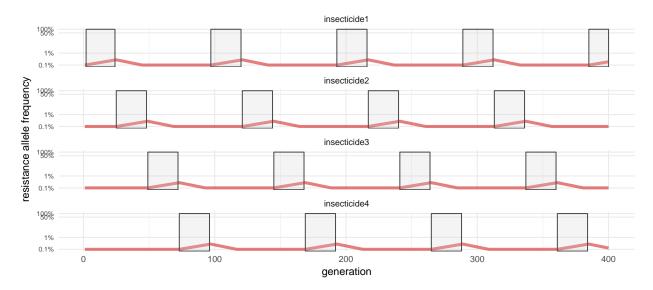
scenario 88 expo_hi 0.86 eff 0.43 rot_interval 0
tot gens deployed under freq 0.5 = 399



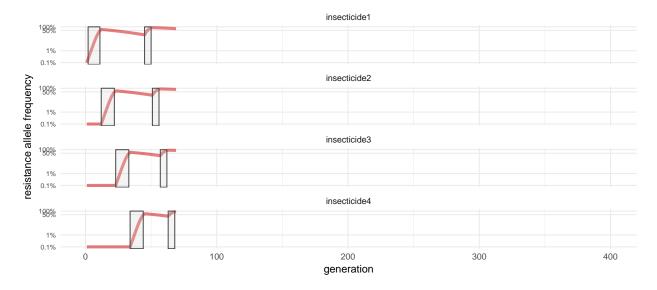
scenario 88 expo_hi 0.86 eff 0.43 rot_interval 17 ## tot gens deployed under freq 0.5 = 399



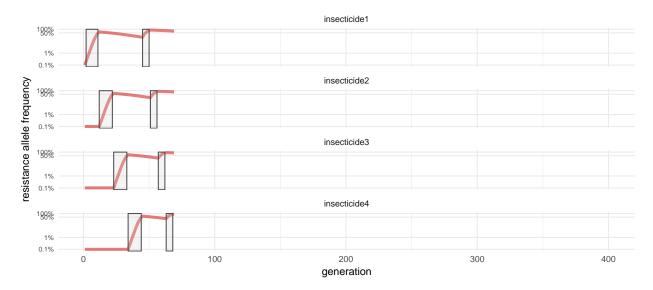
scenario 89 expo_hi 0.6 eff 0.36 rot_interval 0
tot gens deployed under freq 0.5 = 399



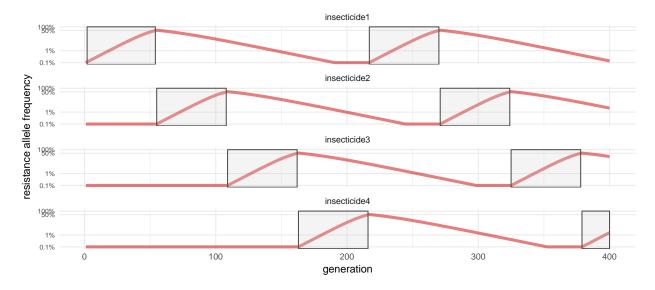
scenario 89 expo_hi 0.6 eff 0.36 rot_interval 24
tot gens deployed under freq 0.5 = 399



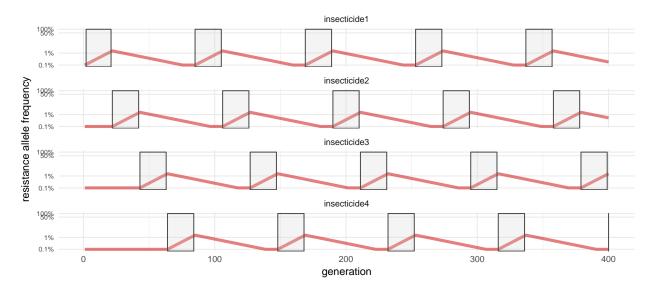
scenario 90 expo_hi 0.84 eff 0.96 rot_interval 0
tot gens deployed under freq 0.5 = 51



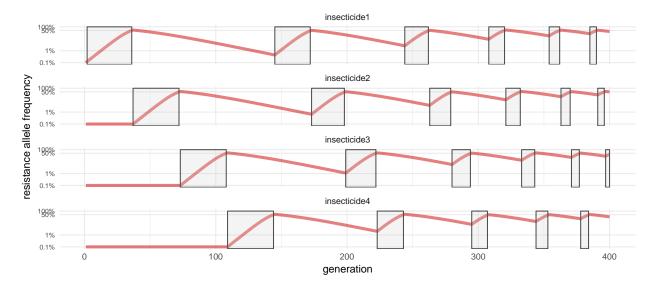
scenario 90 expo_hi 0.84 eff 0.96 rot_interval 26 ## tot gens deployed under freq 0.5 = 51



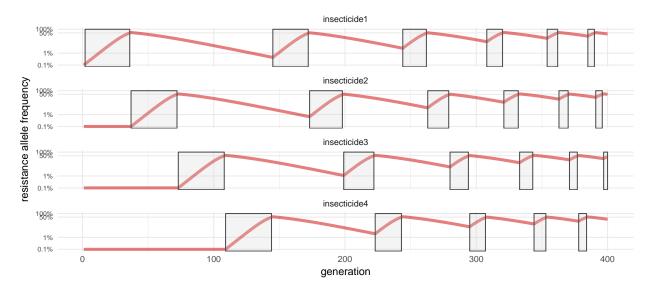
scenario 91 expo_hi 0.71 eff 0.56 rot_interval 0
tot gens deployed under freq 0.5 = 399



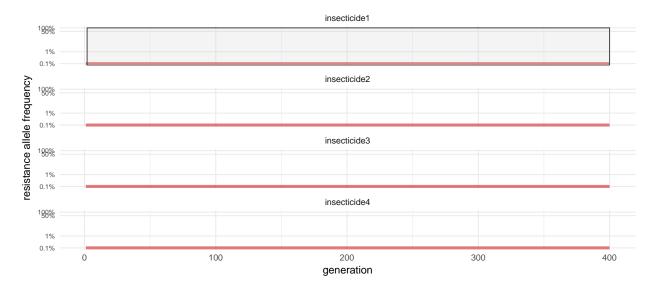
scenario 91 expo_hi 0.71 eff 0.56 rot_interval 21
tot gens deployed under freq 0.5 = 399



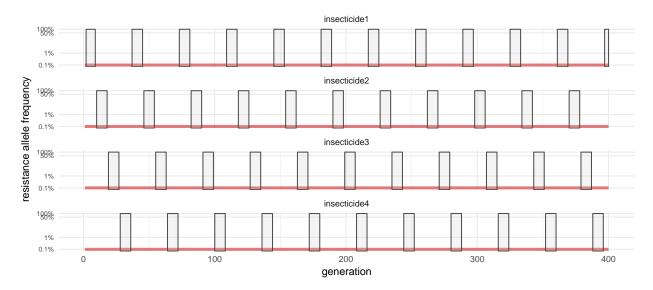
scenario 92 expo_hi 0.8 eff 0.61 rot_interval 0
tot gens deployed under freq 0.5 = 399



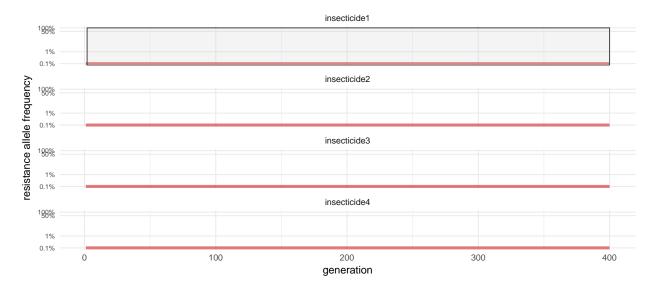
scenario 92 expo_hi 0.8 eff 0.61 rot_interval 40
tot gens deployed under freq 0.5 = 399



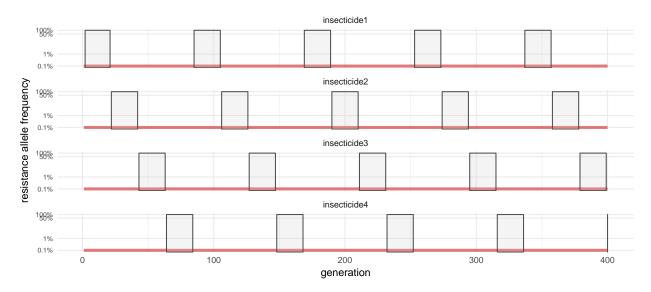
scenario 93 expo_hi 0.11 eff 0.79 rot_interval 0
tot gens deployed under freq 0.5 = 399



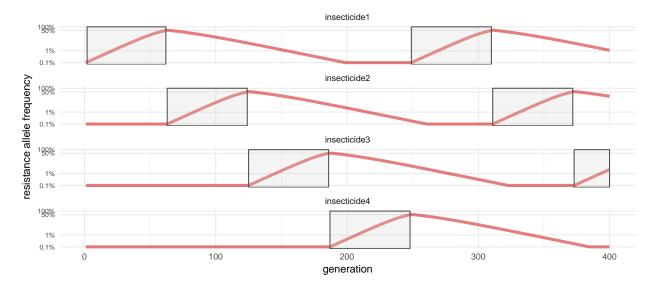
scenario 93 expo_hi 0.11 eff 0.79 rot_interval 9
tot gens deployed under freq 0.5 = 399



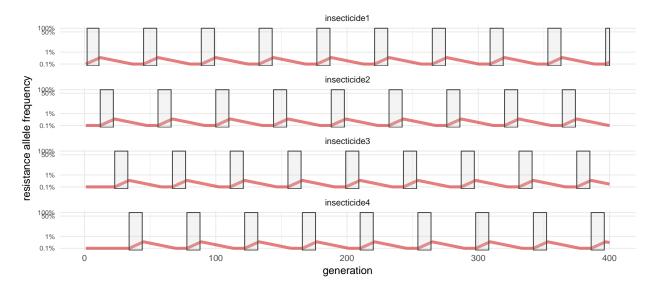
scenario 94 expo_hi 0.17 eff 0.55 rot_interval 0
tot gens deployed under freq 0.5 = 399



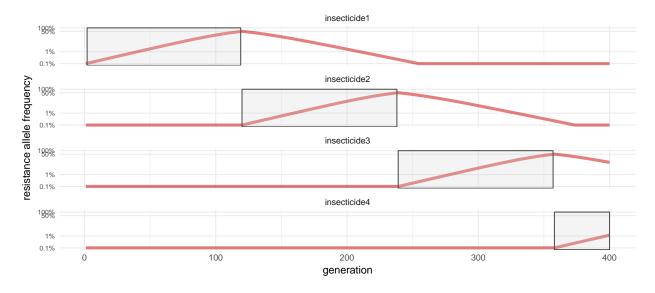
scenario 94 expo_hi 0.17 eff 0.55 rot_interval 21
tot gens deployed under freq 0.5 = 399



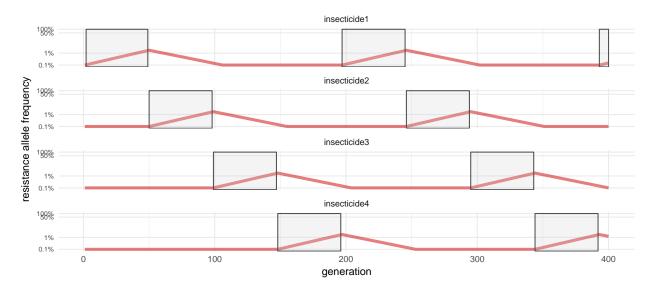
scenario 95 expo_hi 0.57 eff 0.67 rot_interval 0
tot gens deployed under freq 0.5 = 399



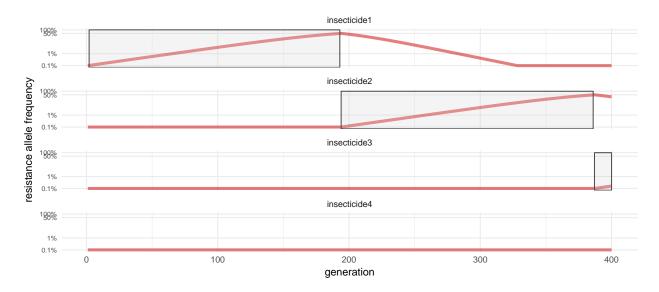
scenario 95 expo_hi 0.57 eff 0.67 rot_interval 11
tot gens deployed under freq 0.5 = 399



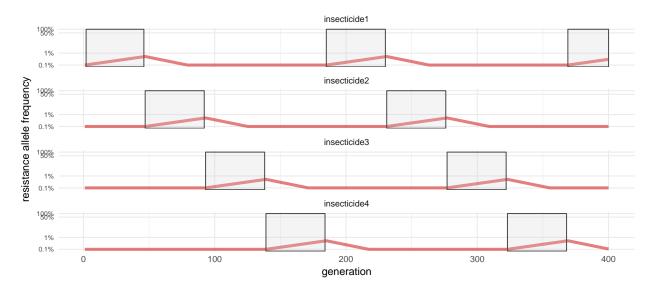
scenario 96 expo_hi 0.61 eff 0.43 rot_interval 0
tot gens deployed under freq 0.5 = 399



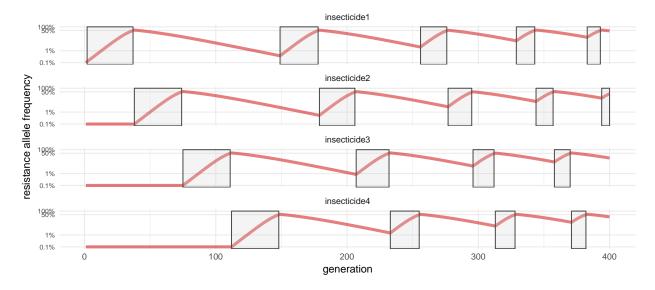
scenario 96 expo_hi 0.61 eff 0.43 rot_interval 49
tot gens deployed under freq 0.5 = 399



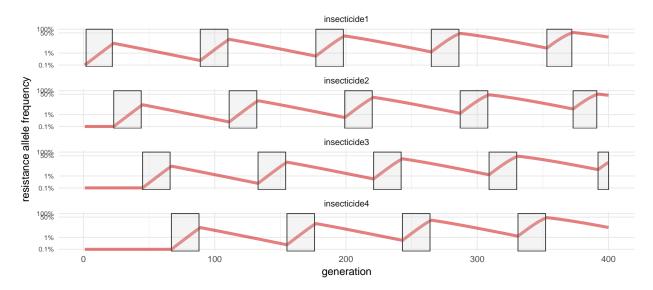
scenario 97 expo_hi 0.53 eff 0.4 rot_interval 0
tot gens deployed under freq 0.5 = 399



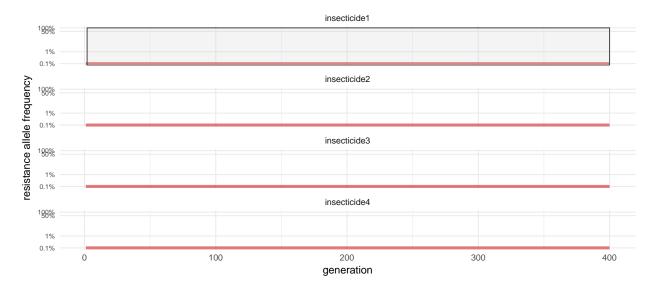
scenario 97 expo_hi 0.53 eff 0.4 rot_interval 46 ## tot gens deployed under freq 0.5 = 399



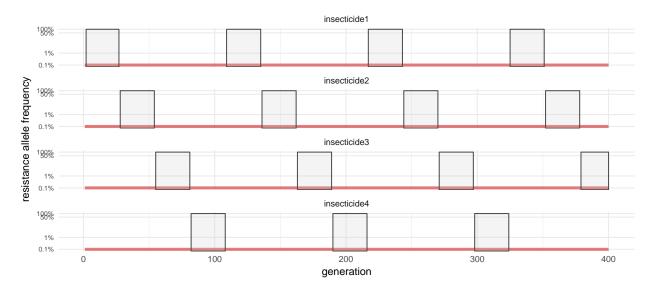
scenario 98 expo_hi 0.64 eff 0.78 rot_interval 0
tot gens deployed under freq 0.5 = 399



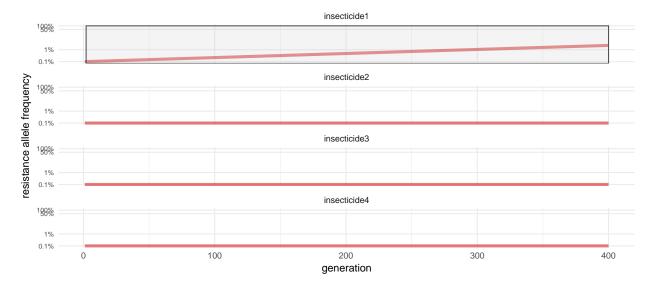
scenario 98 expo_hi 0.64 eff 0.78 rot_interval 22
tot gens deployed under freq 0.5 = 399



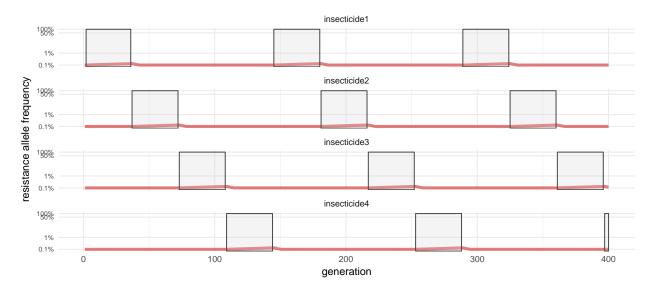
scenario 99 expo_hi 0.19 eff 0.63 rot_interval 0
tot gens deployed under freq 0.5 = 399



scenario 99 expo_hi 0.19 eff 0.63 rot_interval 27 ## tot gens deployed under freq 0.5 = 399



scenario 100 expo_hi 0.23 eff 0.77 rot_interval 0
tot gens deployed under freq 0.5 = 399



scenario 100 expo_hi 0.23 eff 0.77 rot_interval 36
tot gens deployed under freq 0.5 = 399

summary plot of all runs, would show any differences between sequence & rotations as non horizontal lines

