paper\_figs\_rotations201911 : create paper figures from rotation runs

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Code to plot and analyse rotations runs for paper.

Runs themselves are done from rotation\_runs2019.Rmd.

16 expts of 10,000 runs each comparing rotations and sequences.

# example scenarios

# A1 frequency switch insecticides same, no costs no disp



# A2 frequency switch insecticides same, costs no disp



# A3 frequency switch insecticides same, no costs, disp

# in this example rotations have a reasonable advantage but I’m not sure why !!



# B2 frequency switch insecticides different, costs



# difference between rotations and sequences, all runs



# pcent difference between rotations and sequences, all runs



# at each generations below threshold for rotations, which strategy was best



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# count proportion of scenarios not reaching resistance thresholds

## proportion runs not reaching thresholds : 0.1181187

## proportion runs (that did reach threshold) where rotations and sequence the same : 0.5175513

## proportion runs (that did reach threshold) where rotations >20 % better than sequence : 0.04146675

# PRCC to show the sensitivity of the difference between rotation and sequence to inputs

# this can only be used for the experiments where all insecticides are the same

# (because in the ones where insecticides differ there are multiple values for each input)

# start by running on just A expts

