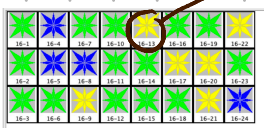
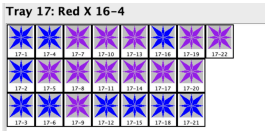
Self cross Green 2



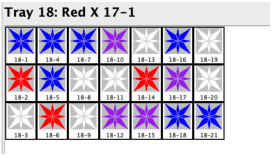
true breeding yellow

goal: obtain purple. Eventual goal: true-breeding purple.

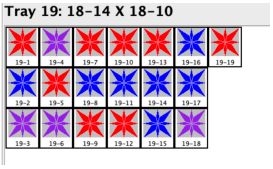
16-4 x Red



Red x 17-1 (

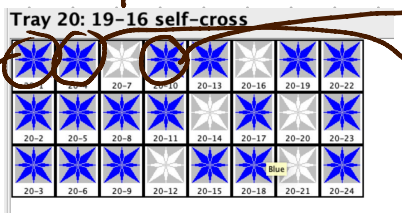


18-14 x 18-10 (Red x purple)

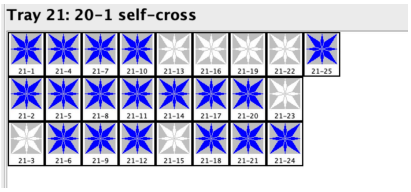


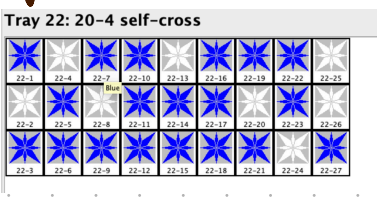
blue

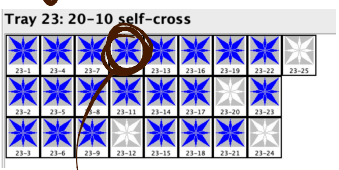
goal: find true-breeding blue

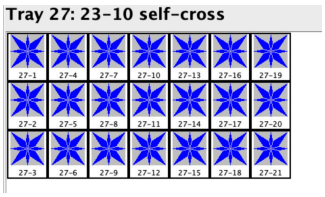


Next time I would keep testing the first tray (← 20) for true-breeding blues



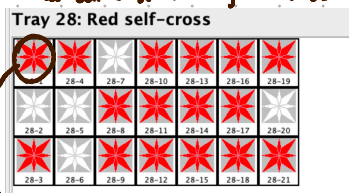




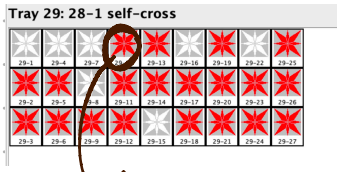


goal: find true-breeding red

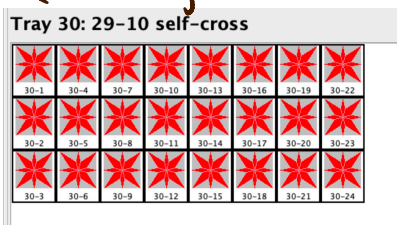
Red self-cross from greenhouse



self-cross

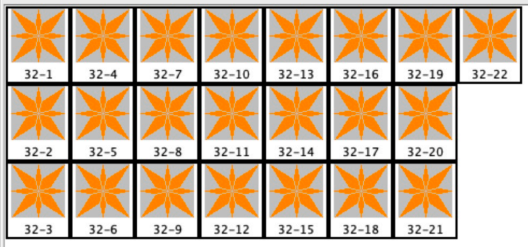


true breeding!



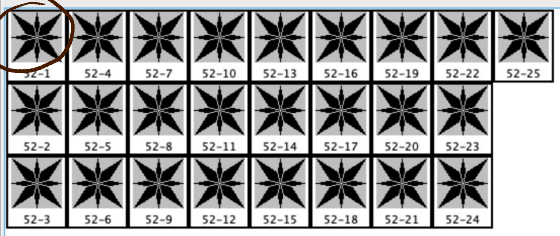
goal: discover more colors

Tray 32: True-Breeding red X True-Breeding Yellow

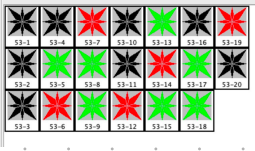


true breeding

Tray 52: Green-1 X True-Breeding red



Tray 53: 52-1 self-cross



Colors

green	true	C^GC^G
red	true	C^rC^r
white	true	C^wC^w
orange	red/yellow	C^rC^y
black	green/red	C^GC^r
blue	true	C^bC^b
purple	blue/red	C^bC^r
yellow	true	C^yC^y

Goal: Find dominance or recessiveness

$C^G > C^b$
$C^G > C^y$
$C^G > C^w$

$C^b > C^w$
$C^r > C^w$
$C^y > C^w$

reorganize...

$C^G > C^b, C^w, C^y$

$C^r > C^w$

$C^b > C^w$

$C^y > C^w$

$C^G = C^r$

$C^r = C^y$

$C^r = C^y$
$C^r = C^b$
$C^b = C^y$

Mutating to find purple:

Mutating true-breeding blue flowers

until 1 purple shows up

then self-crossing that purple to test for any absence of blue or red offspring, indicating a protein mutation.