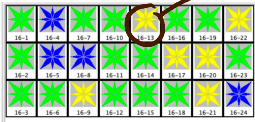


Self cross Green 2



Tray 31: 16-13 self-cross

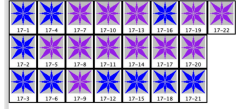


true breeding yellow

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

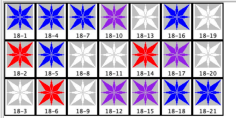
16-4 x Red

Tray 17: Red X 16-4



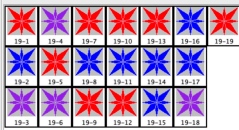
Red x 17-1 (

Tray 18: Red X 17-1



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

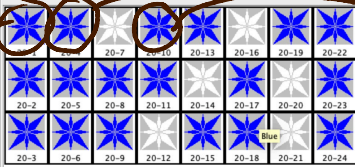
Tray 19: 18-14 X 18-10



blue

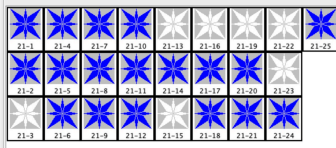
goal: find true-breeding blue

Tray 20: 19-16 self-cross

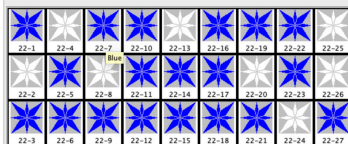


Next time I would keep testing the first tray (← 20) for true-breeding blues

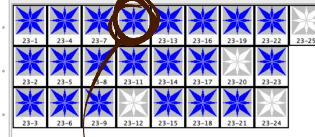
Tray 21: 20-1 self-cross



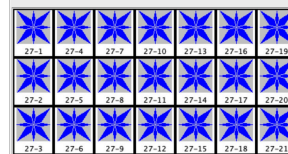
Tray 22: 20-4 self-cross



Tray 23: 20-10 self-cross



Tray 27: 23-10 self-cross



goal: find true-breeding red

Red self-cross from greenhouse

Tray 28: Red self-cross

28-1	28-4	28-7	28-10	28-13	28-16	28-19
28-2	28-5	28-8	28-11	28-14	28-17	28-20
28-3	28-6	28-9	28-12	28-15	28-18	28-21

self-cross

Tray 29: 28-1 self-cross

29-1	29-4	29-7	29-10	29-13	29-16	29-19
29-2	29-5	29-8	29-11	29-14	29-17	29-20
29-3	29-6	29-9	29-12	29-15	29-18	29-21
29-4	29-7	29-10	29-13	29-16	29-19	29-22

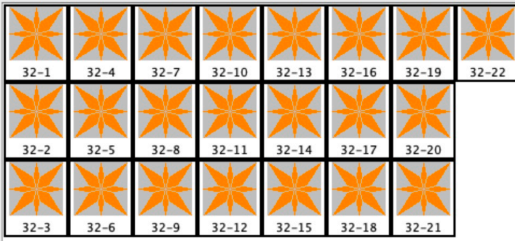
true breeding!

Tray 30: 29-10 self-cross

30-1	30-4	30-7	30-10	30-13	30-16	30-19	30-22
30-2	30-5	30-8	30-11	30-14	30-17	30-20	30-23
30-3	30-6	30-9	30-12	30-15	30-18	30-21	30-24

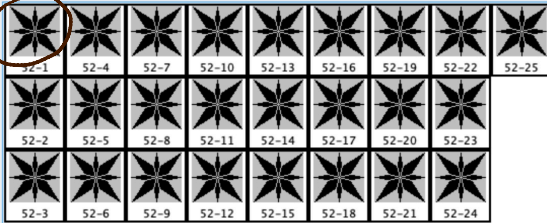
goal: discover more colors

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

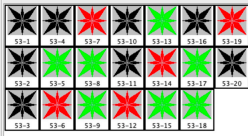


true breeding

Tray 52: Green-1 X True-Breeding red



Tray 53: 52-1 self-cross



Colors

green	true	$C^G C^G$
red	true	$C^R C^R$
white	true	$C^W C^W$
orange	red/yellow	$C^R C^Y$
black	green/red	$C^G C^R$
blue	true	$C^B C^B$
purple	blue/red	$C^B C^R$
yellow	true	$C^Y C^Y$

Goal: Find dominance or recessiveness

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

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

reorganize...

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

$$C^b = C^r$$

$$C^r > C^w$$

$$C^r = C^y$$

$$C^b > C^w$$

$$C^r = C^y$$

$$C^r = C^b$$

$$C^y > C^w$$

$$C^b = C^y$$

Mutating to find purple:

Mutating true-breeding blue flowers

until a purple shows up

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