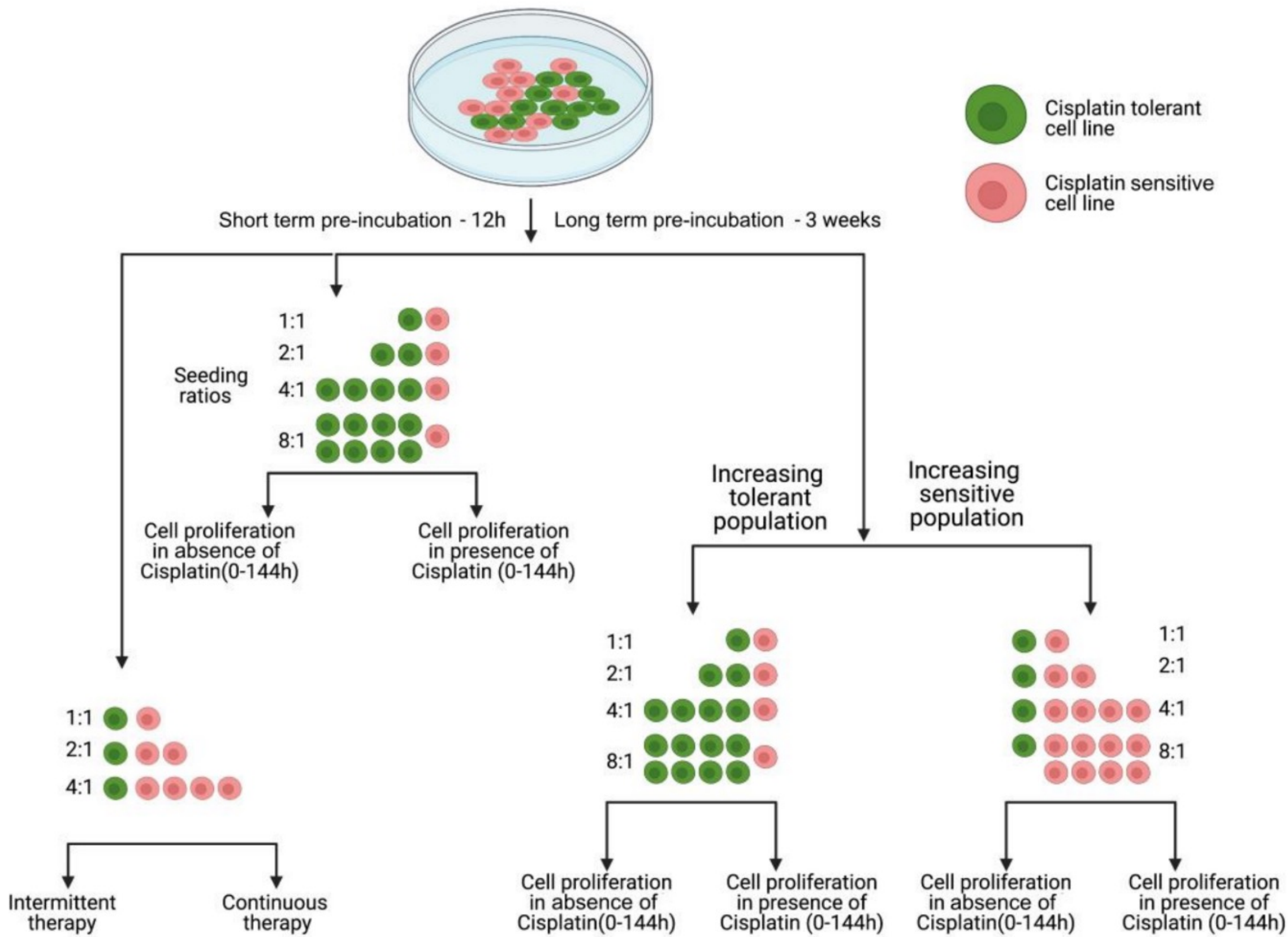
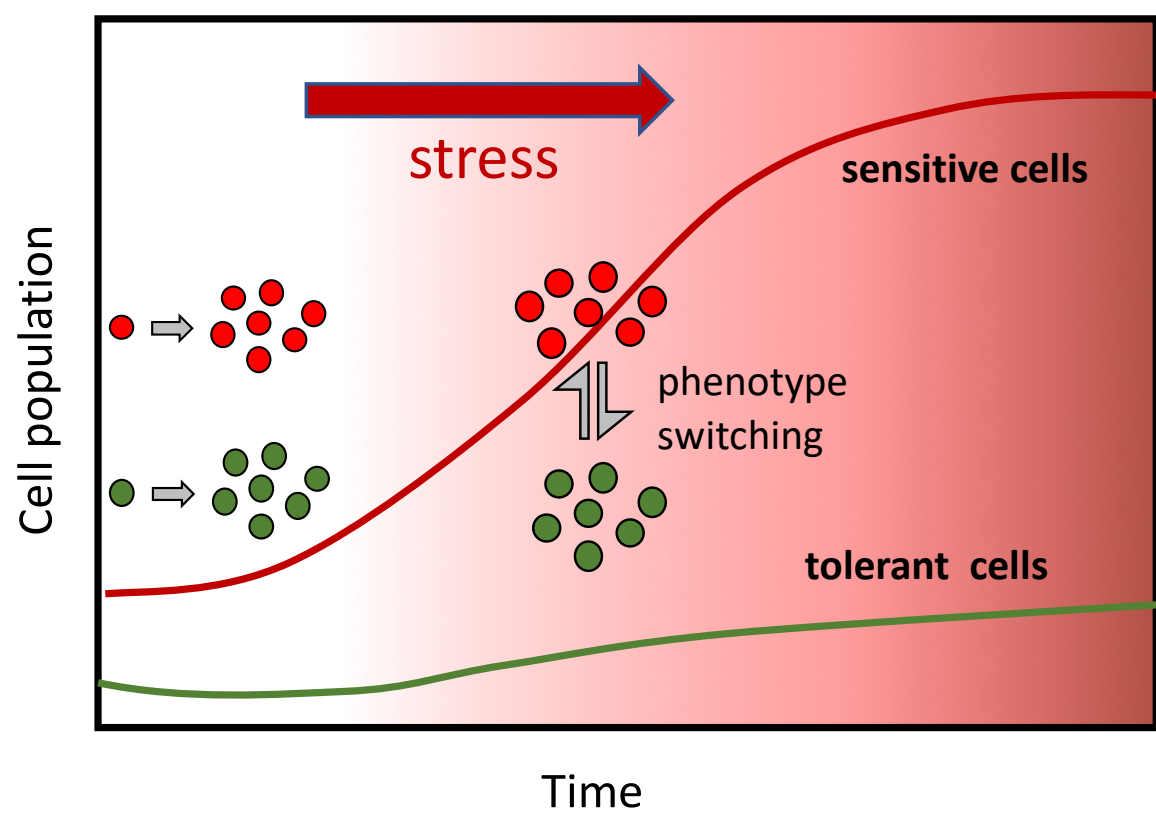


Figure 1

A



B



C

Phenotype Switch Model with Stress Response (PSMSR)

$$\frac{dS}{dt} = -K_a S + K_b T + K_{GS} S$$

sensitive

$$\frac{dT}{dt} = -K_b T + K_a S + K_{GT} T$$

tolerant

net growth: $-K_b T + K_a S$ (phenotype switching), proliferation: $K_{GT} T$

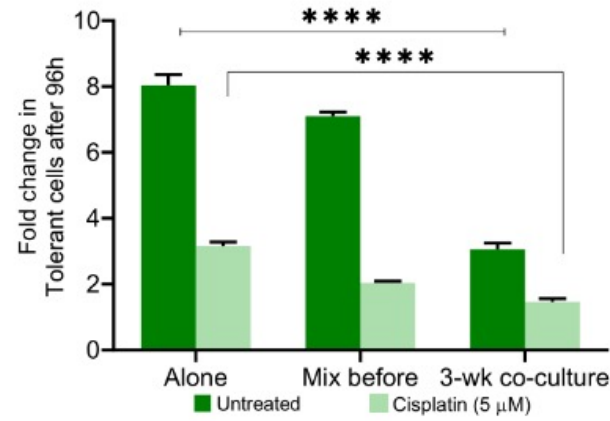
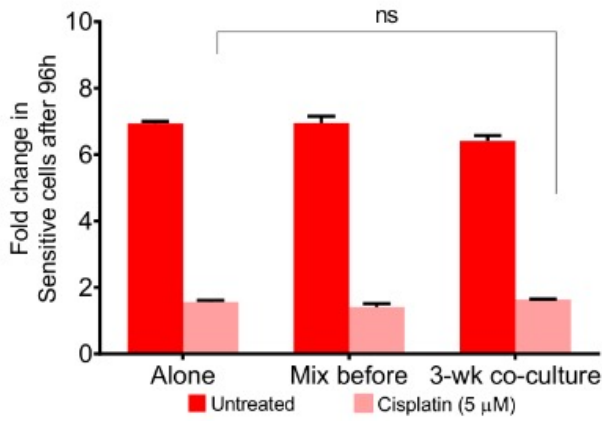
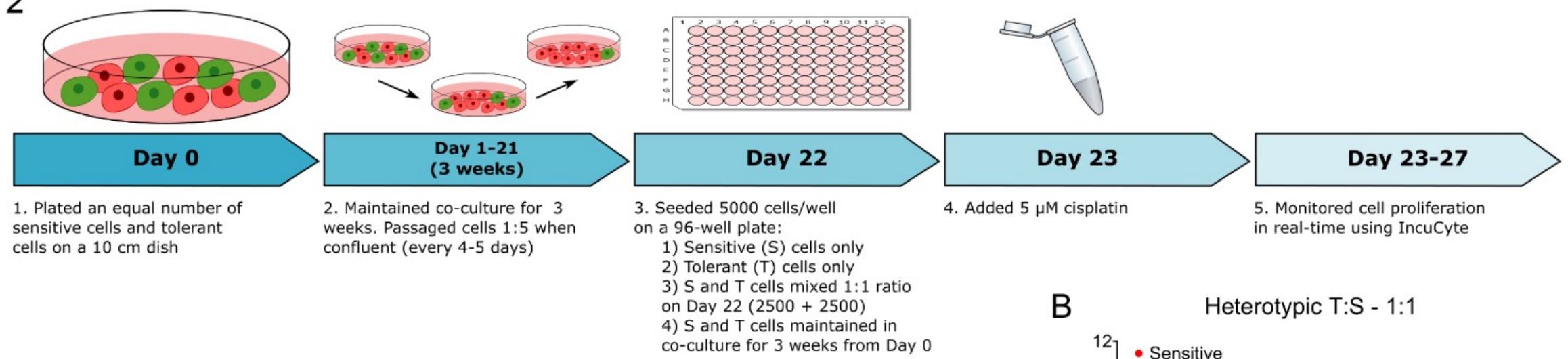
$$\frac{dC_{Str}}{dt} = K_{Str} S - K_{Str,d} T$$

stress

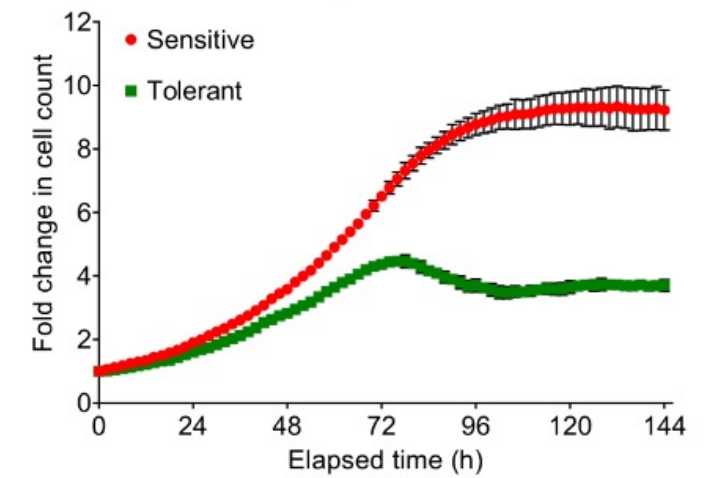
generation: $K_{Str} S$, removal: $-K_{Str,d} T$

Fig. 2

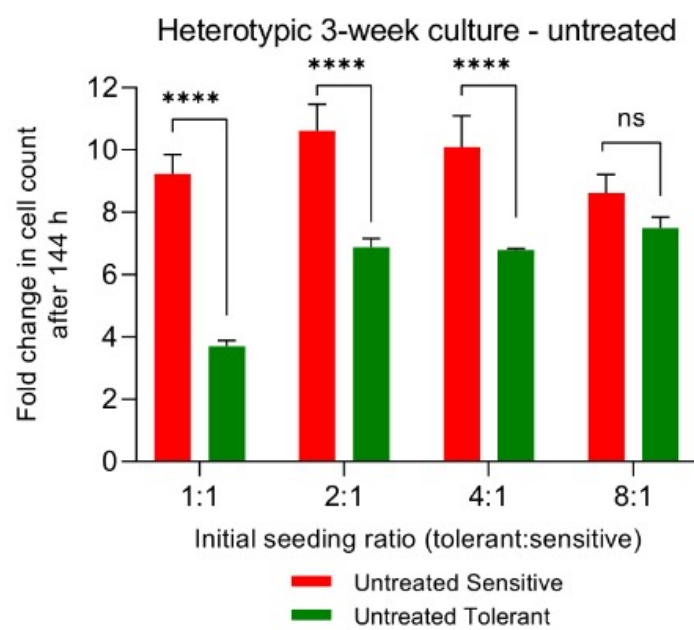
A



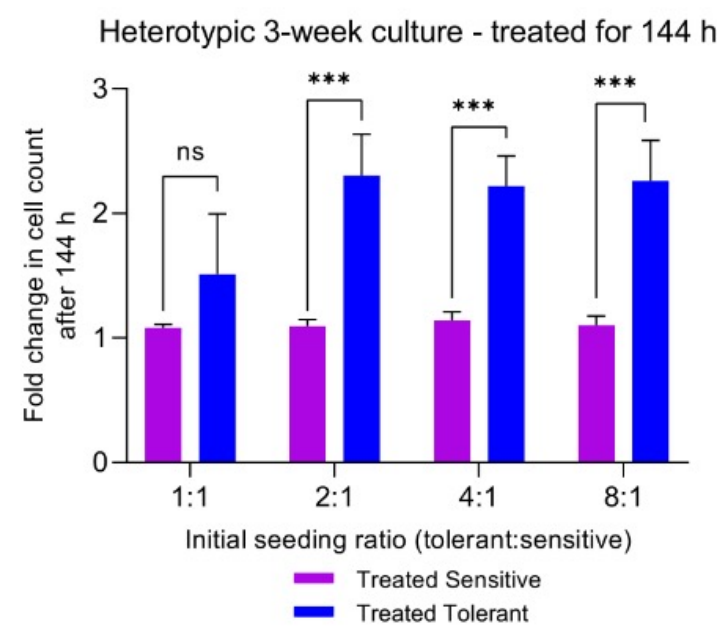
B Heterotypic T:S - 1:1



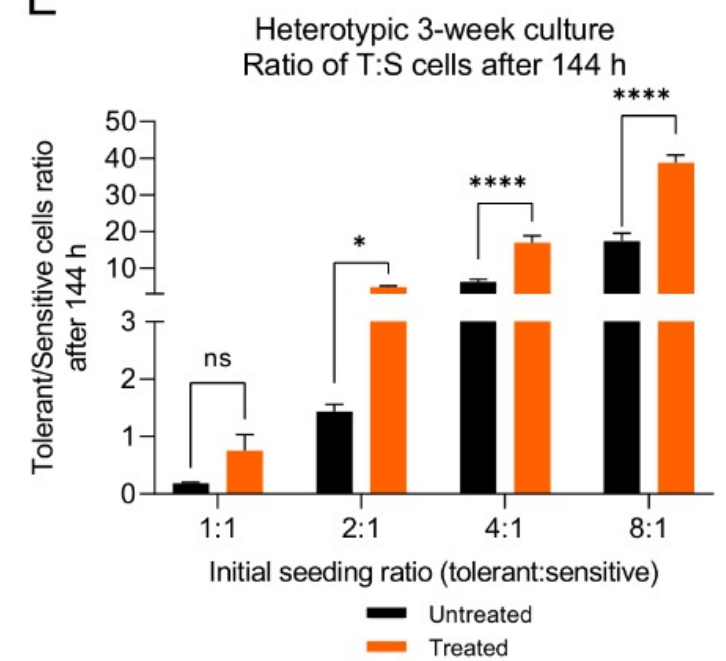
C



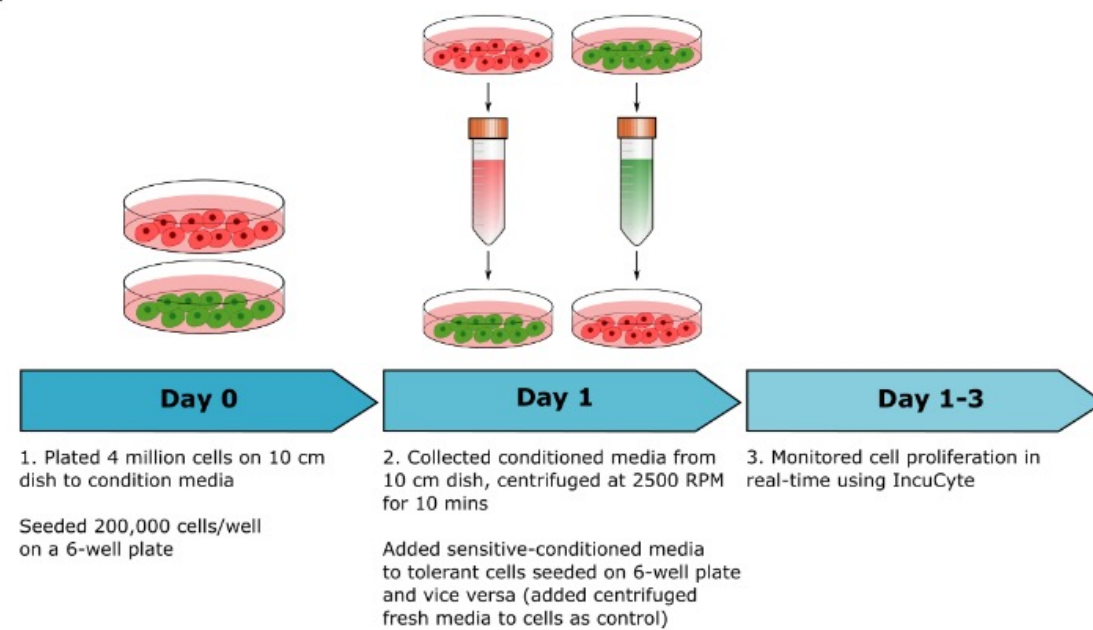
D



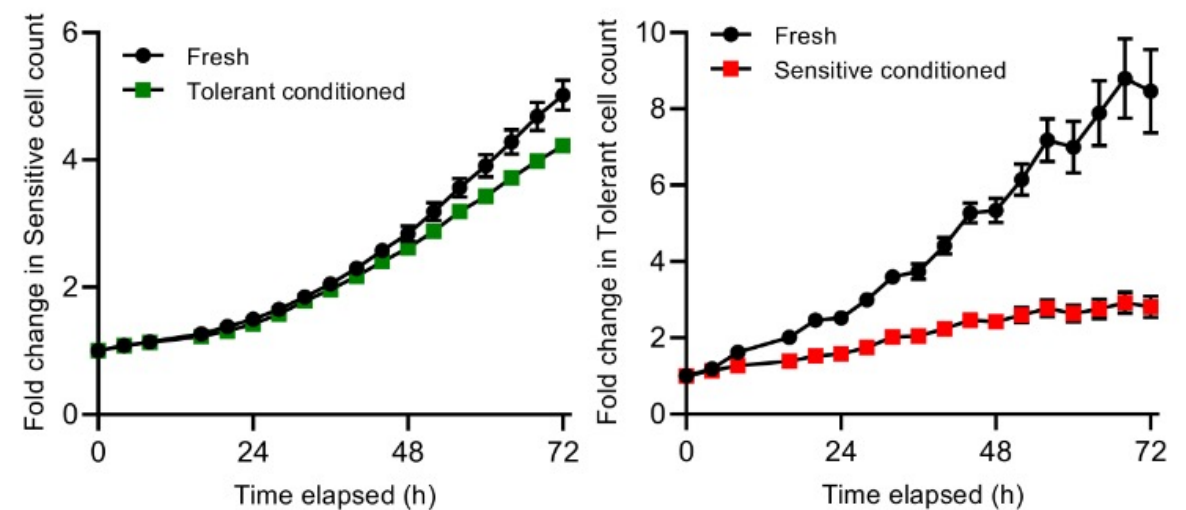
E



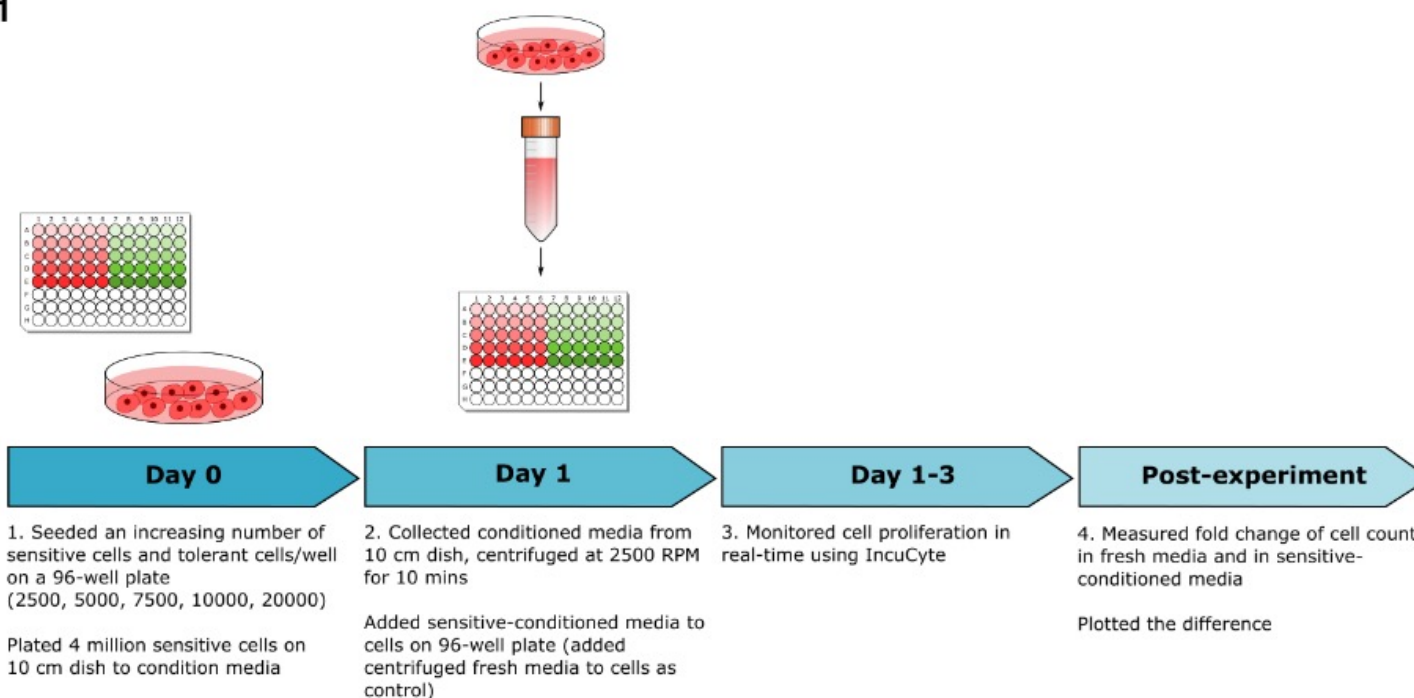
F



G



H



I

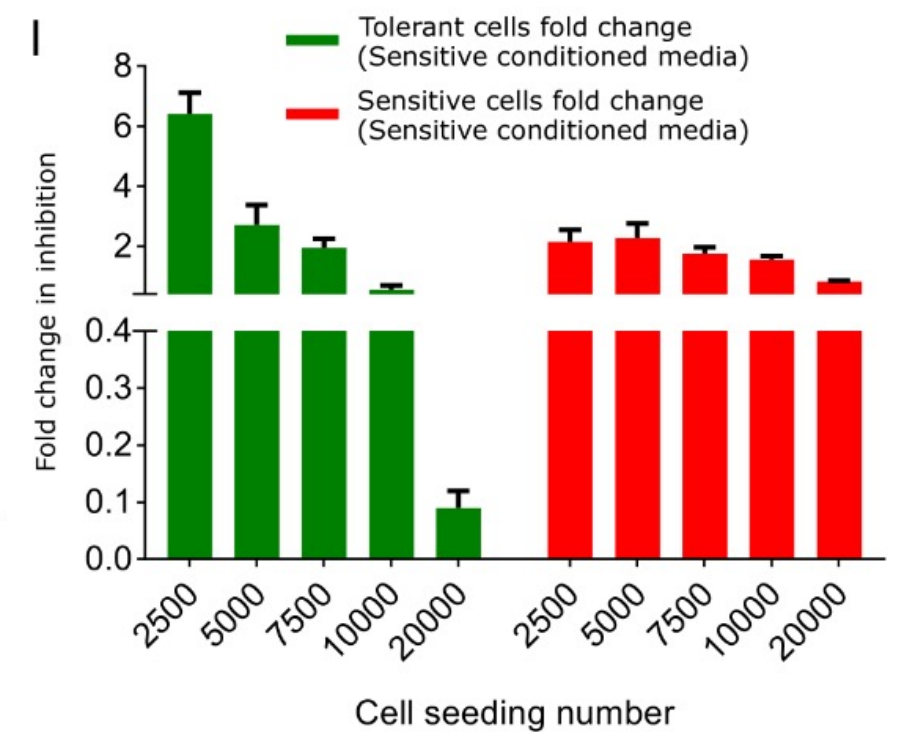


Fig. 3

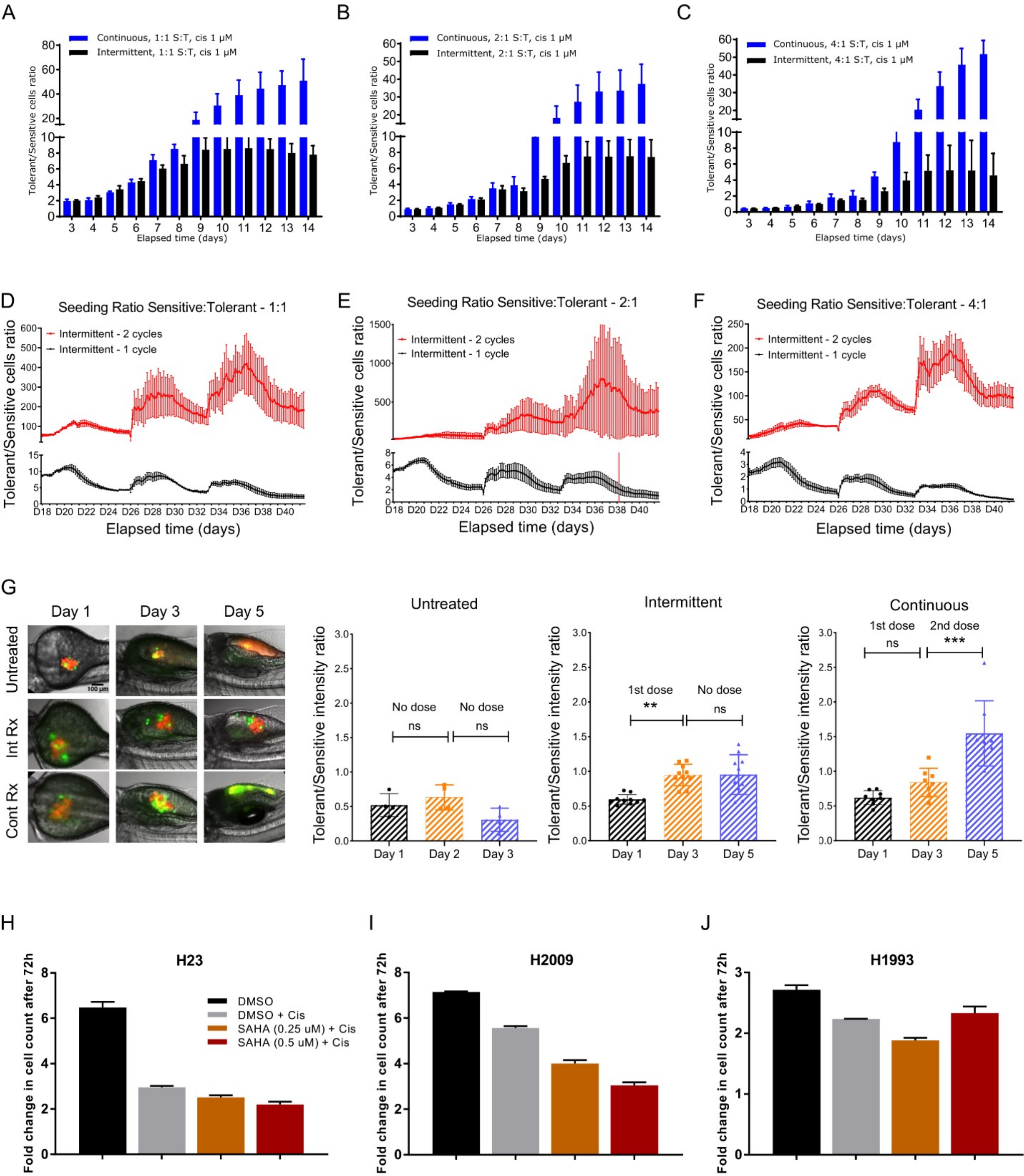


Figure 4

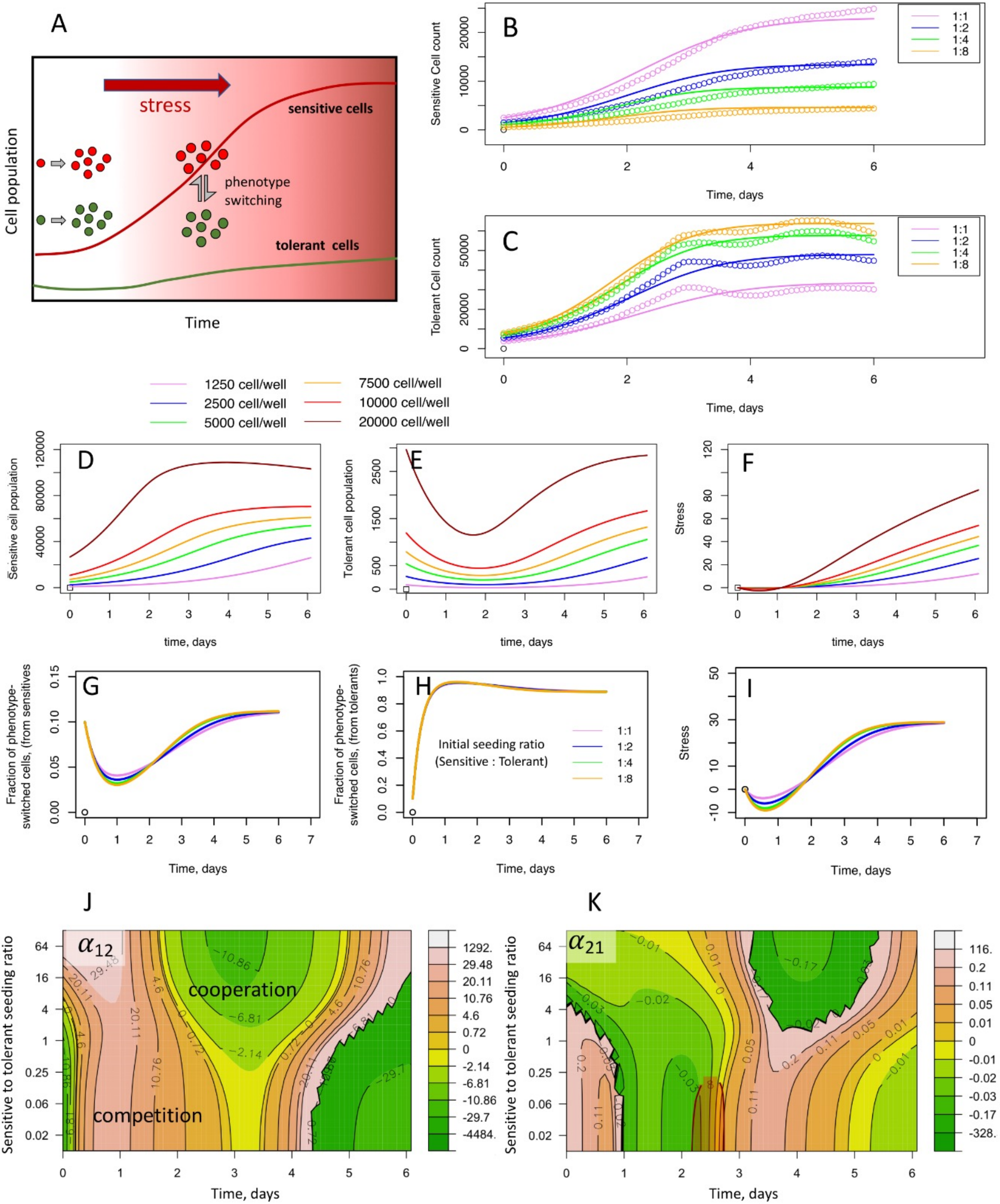


Figure 5

