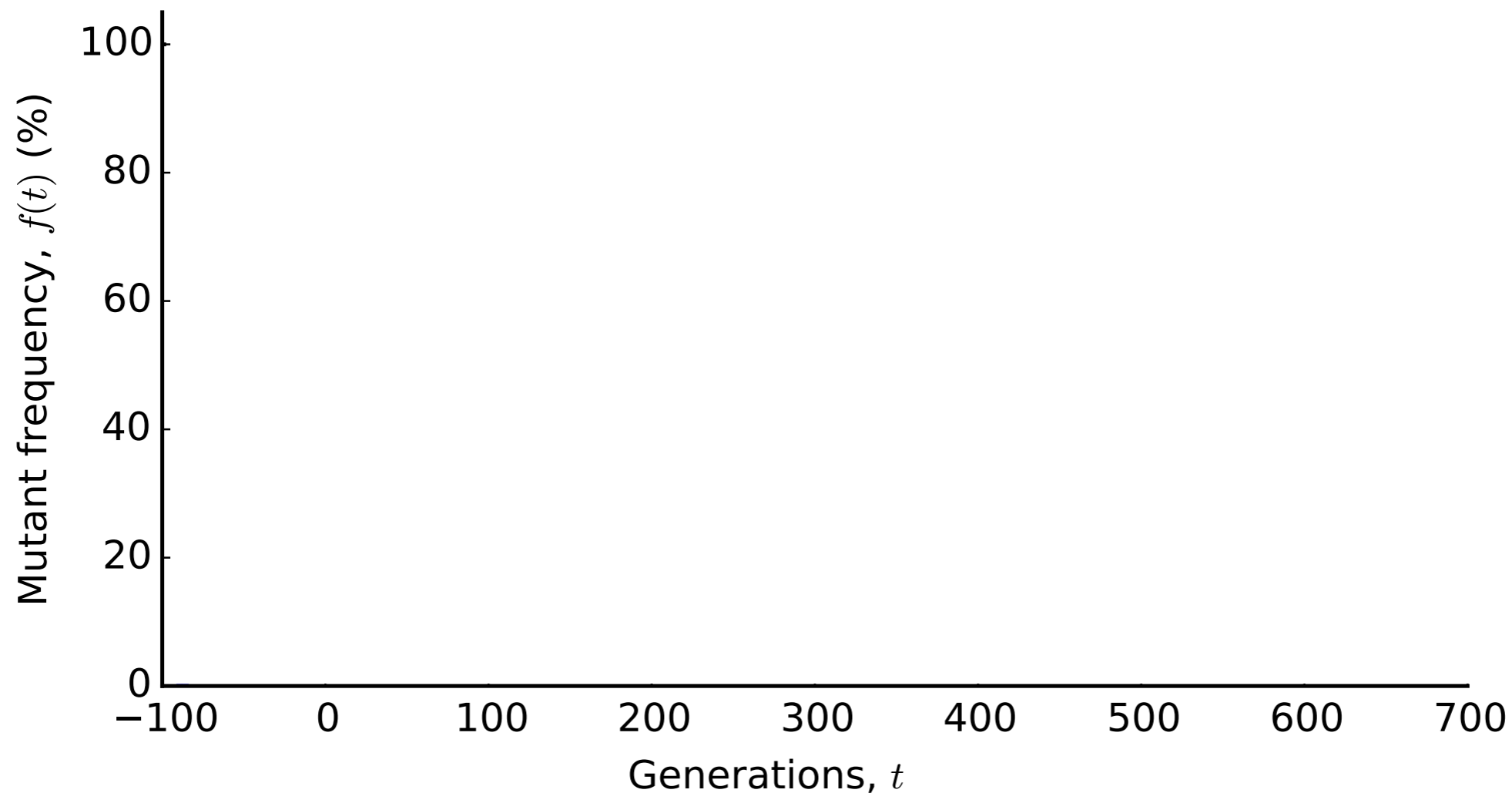
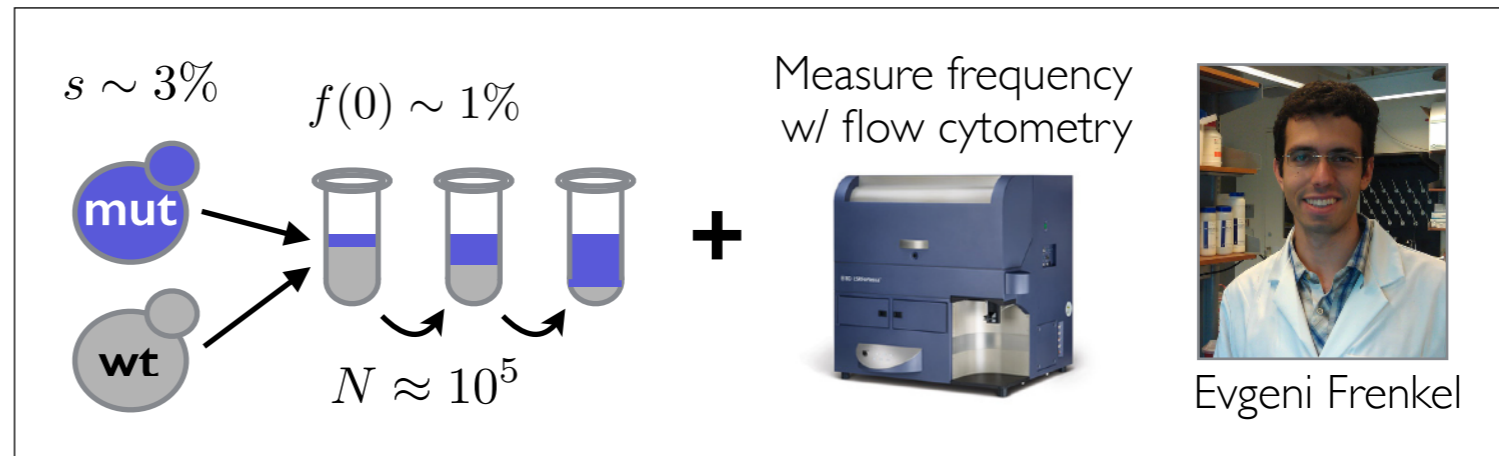


# A laboratory “test” of the single-locus model

## Single-locus model

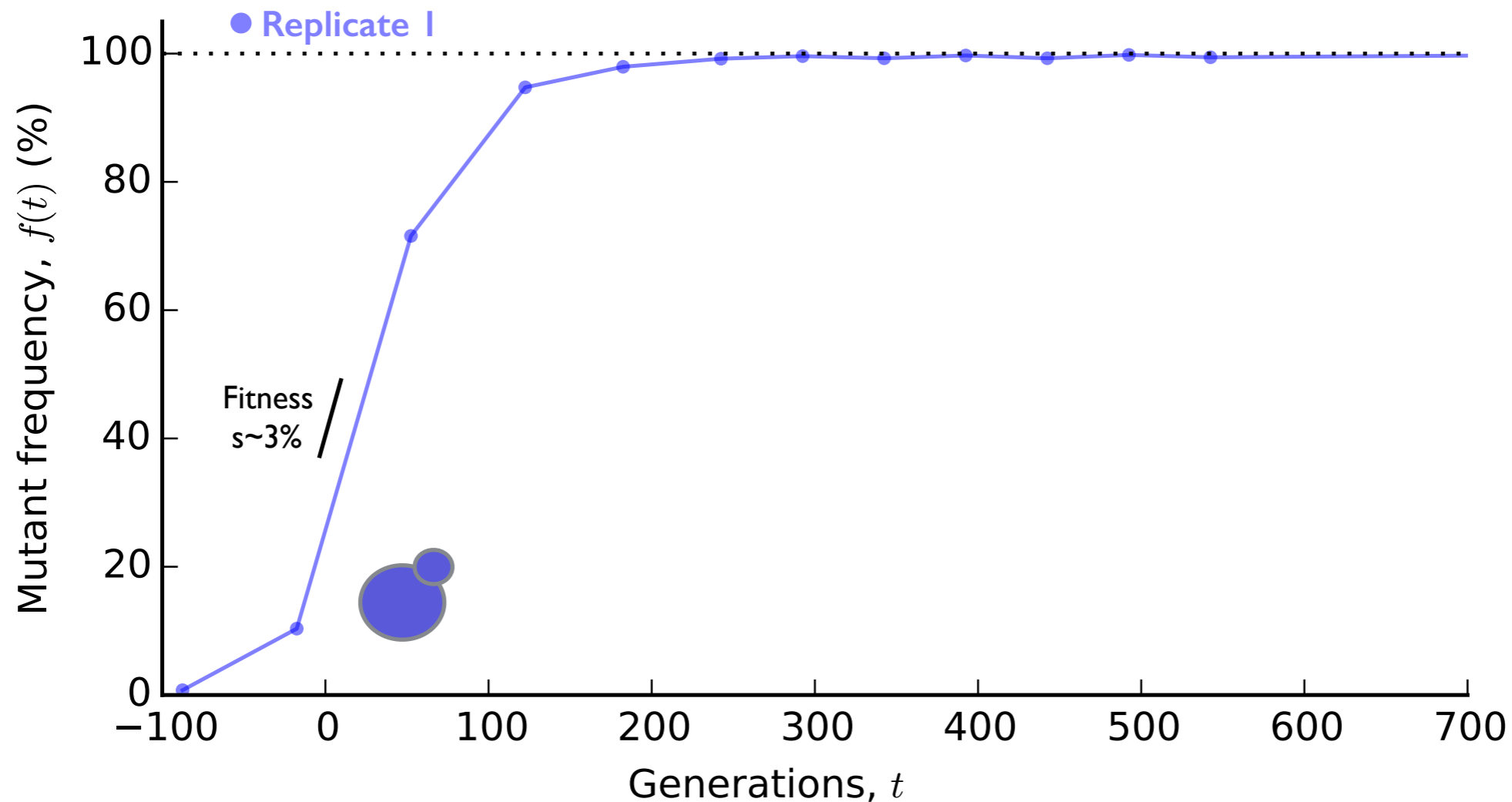
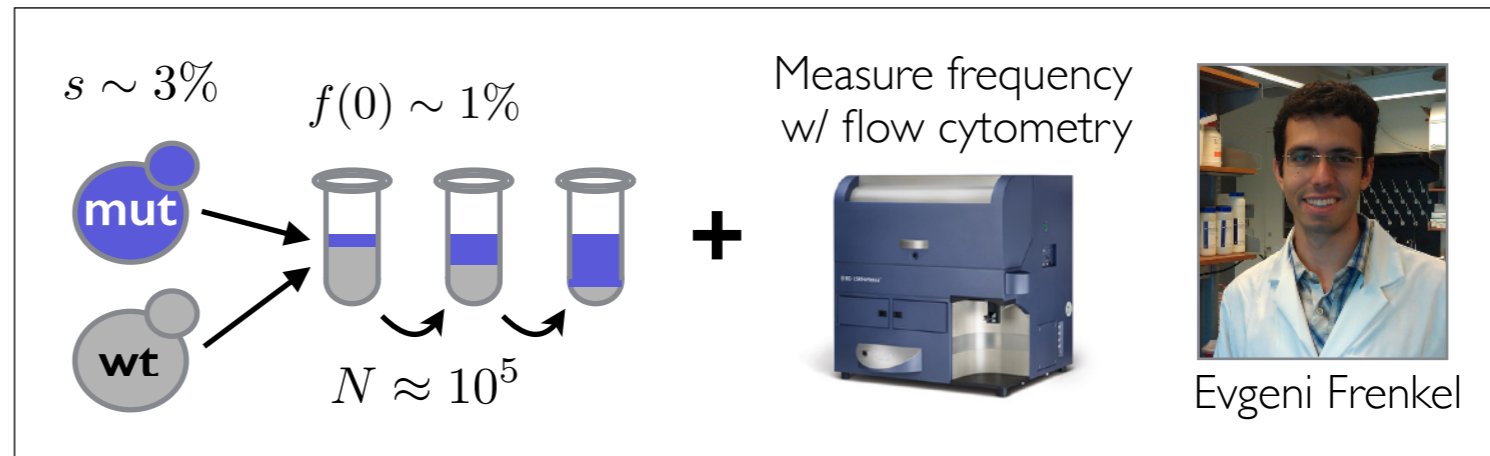
$$\frac{\partial f}{\partial t} = \underbrace{sf(1-f)}_{\text{natural selection}} + \underbrace{\sqrt{\frac{f(1-f)}{N}}\eta(t)}_{\text{number fluctuations ("genetic drift")}}$$



# A laboratory “test” of the single-locus model

## Single-locus model

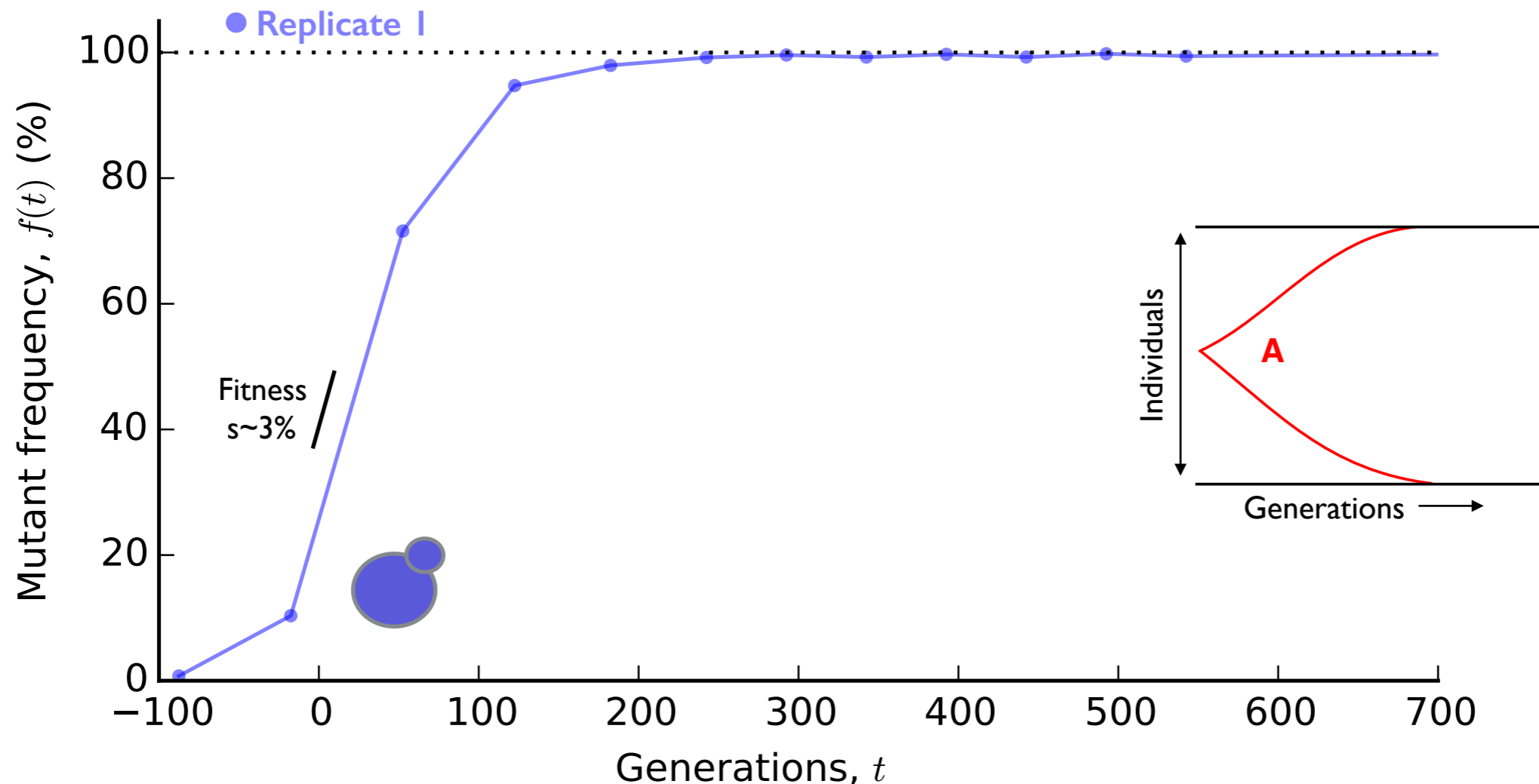
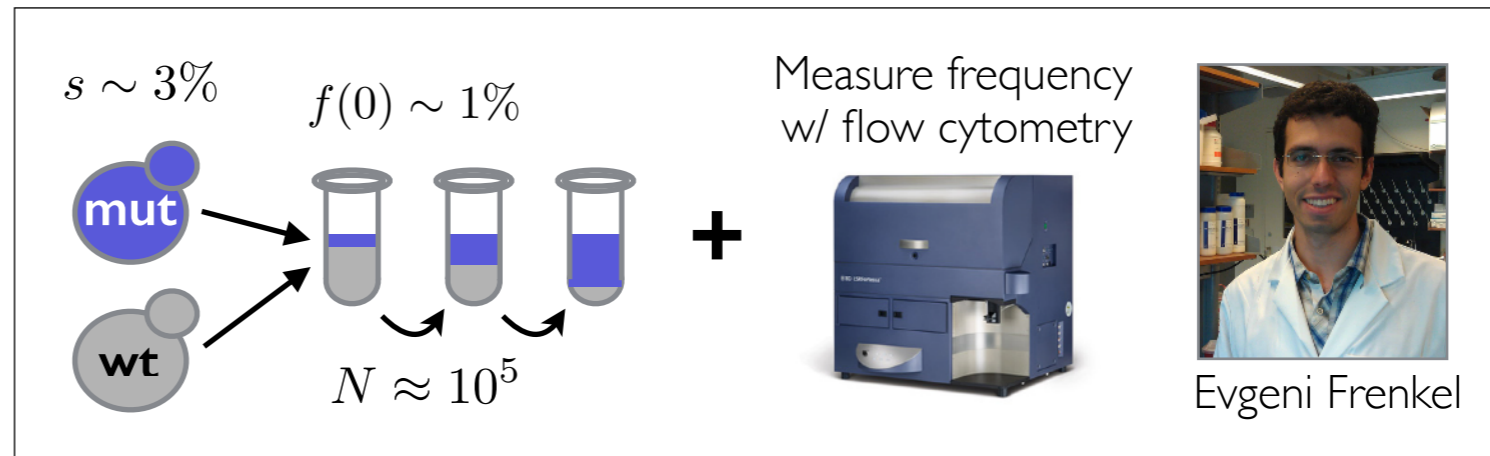
$$\frac{\partial f}{\partial t} = \underbrace{sf(1-f)}_{\text{natural selection}} + \underbrace{\sqrt{\frac{f(1-f)}{N}}\eta(t)}_{\text{number fluctuations ("genetic drift")}}$$



# A laboratory “test” of the single-locus model

## Single-locus model

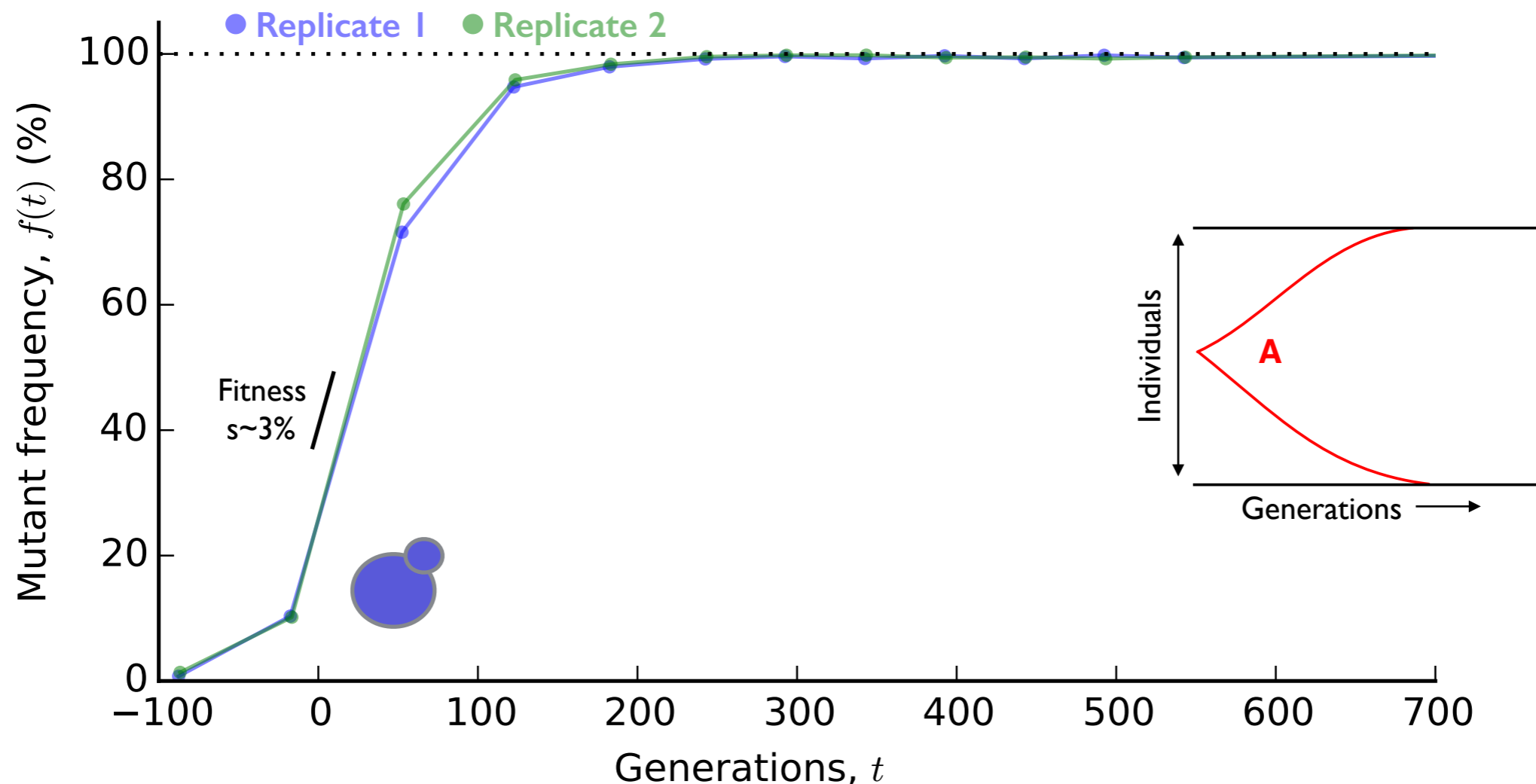
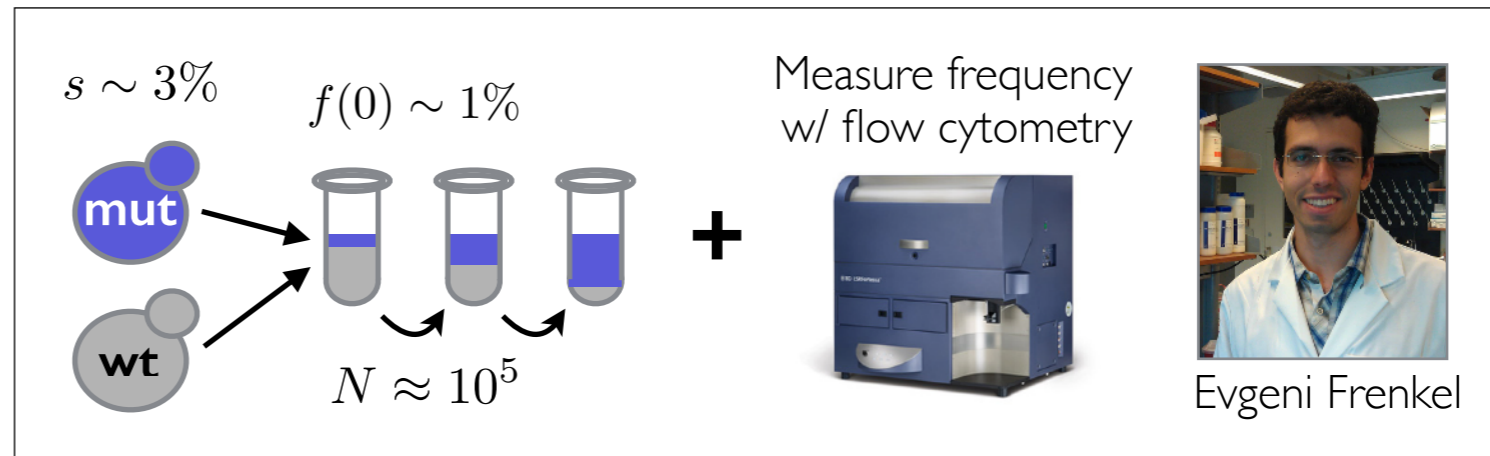
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# A laboratory “test” of the single-locus model

## Single-locus model

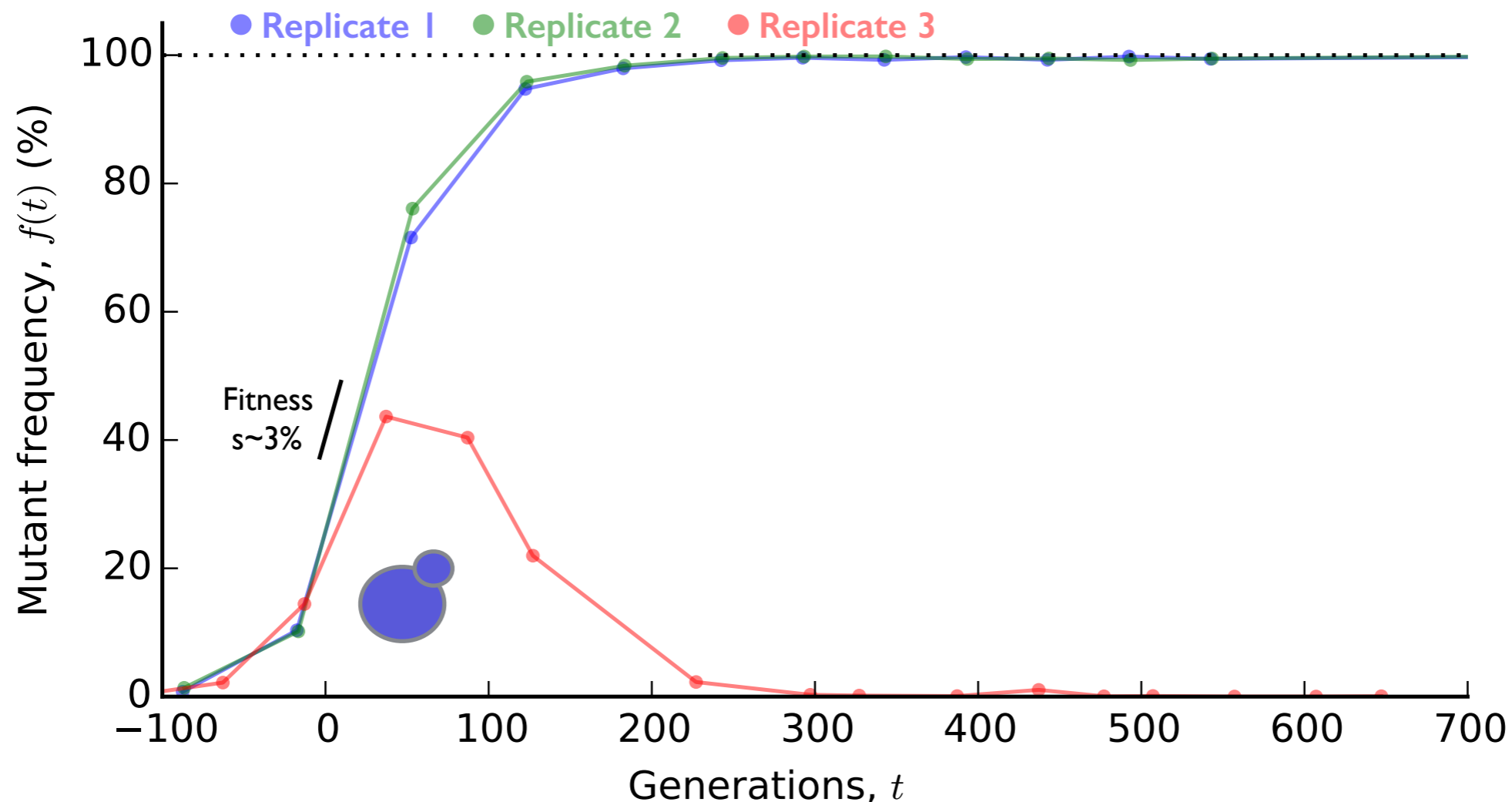
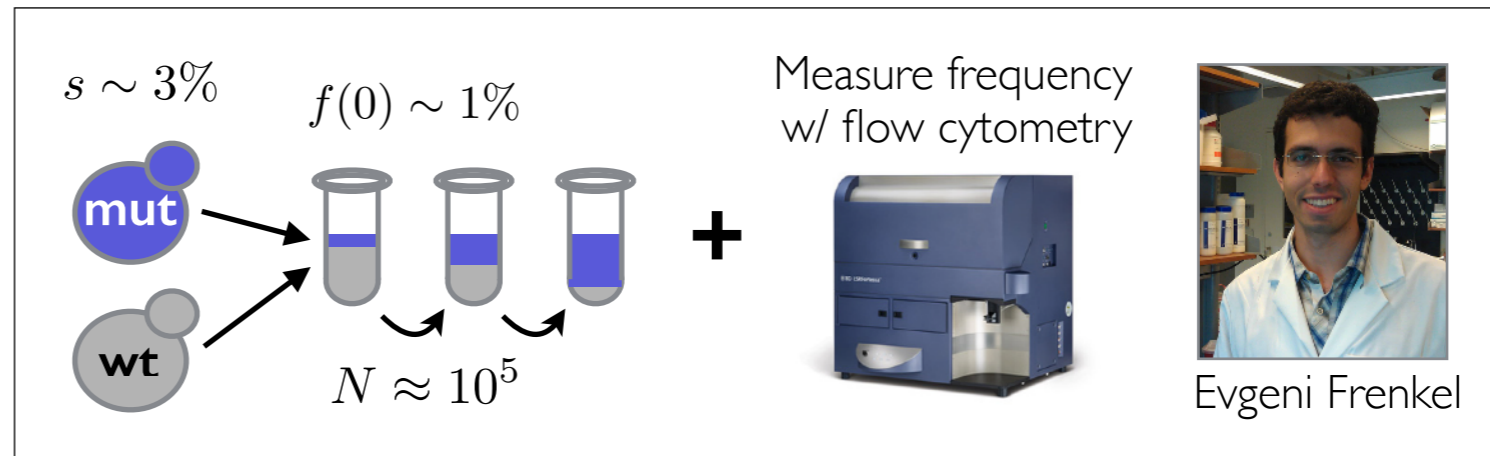
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# A laboratory “test” of the single-locus model

## Single-locus model

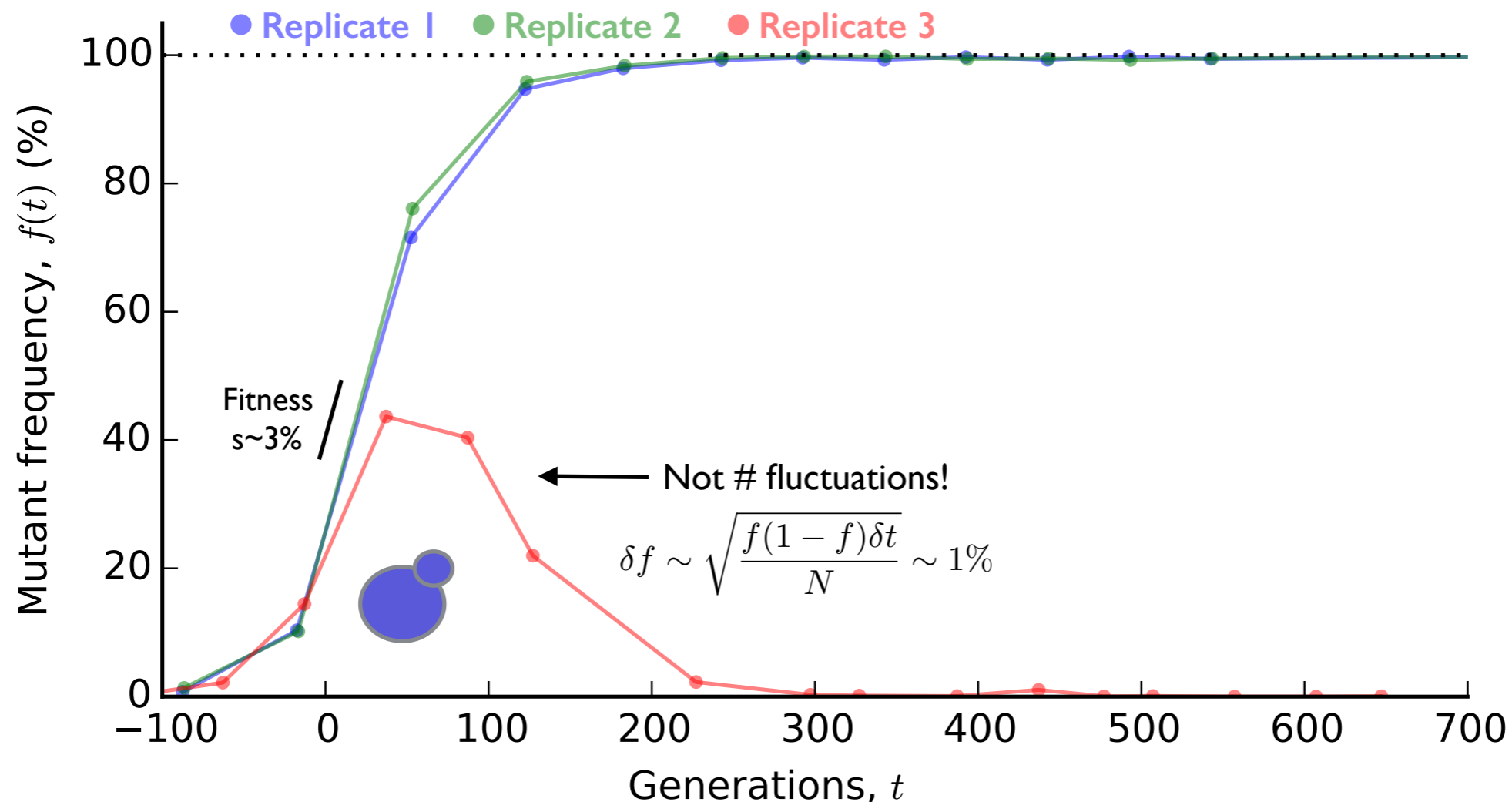
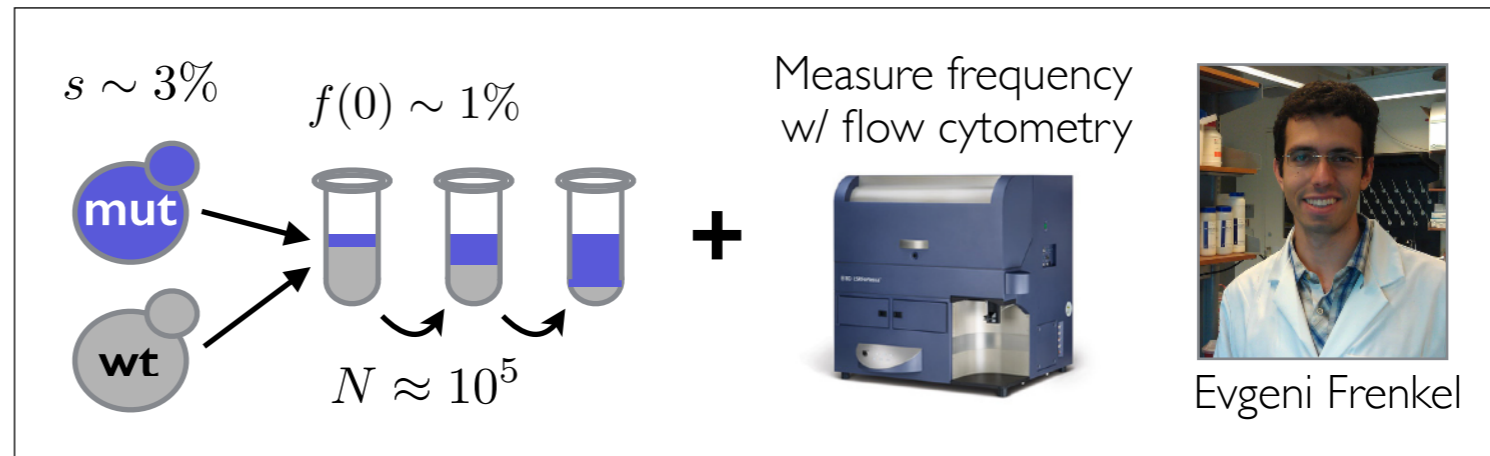
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# A laboratory “test” of the single-locus model

## Single-locus model

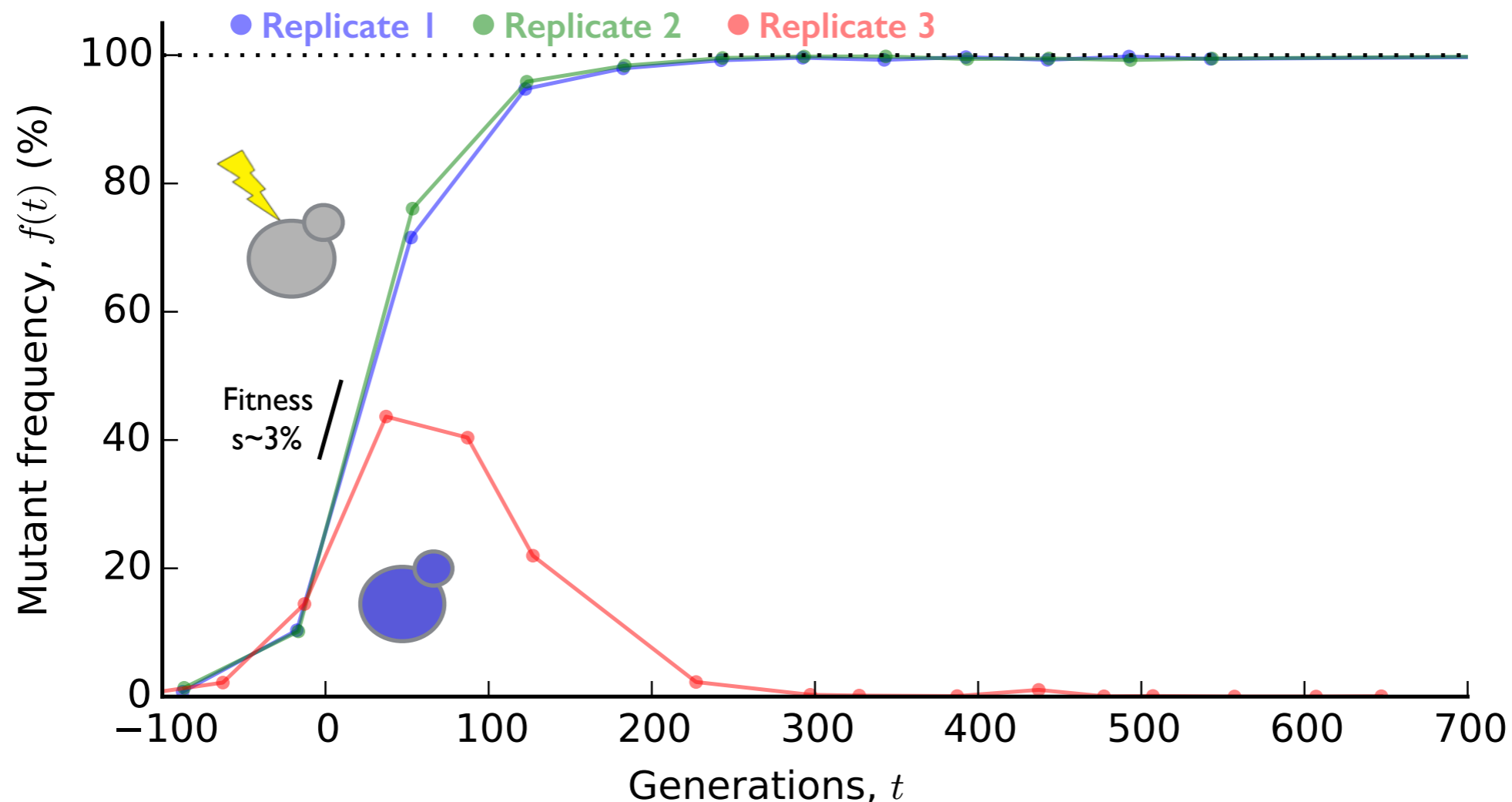
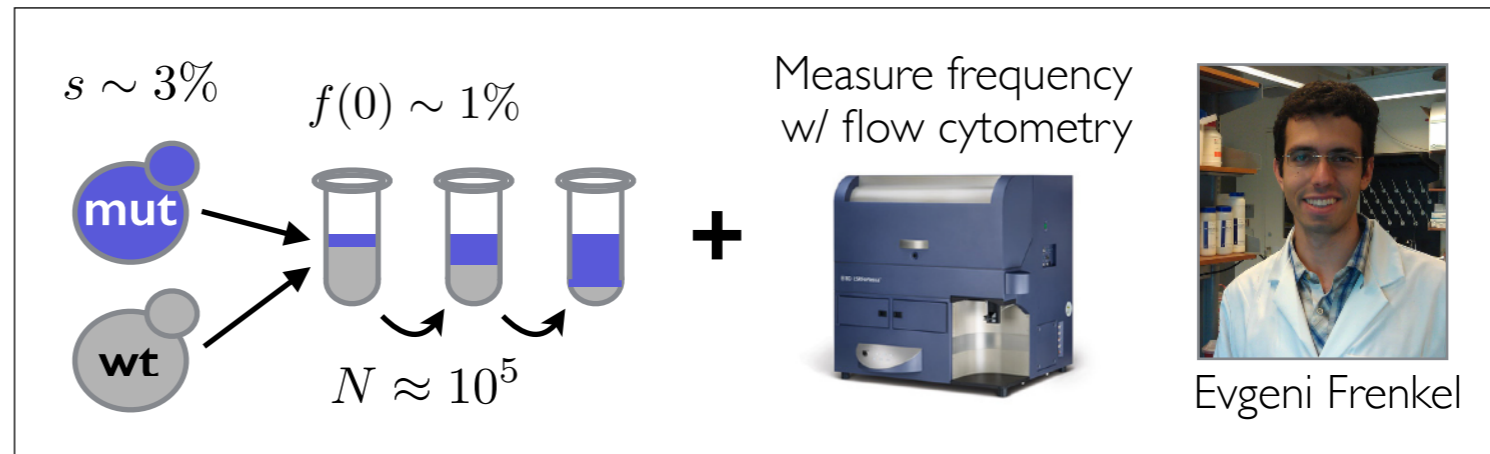
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# A laboratory “test” of the single-locus model

## Single-locus model

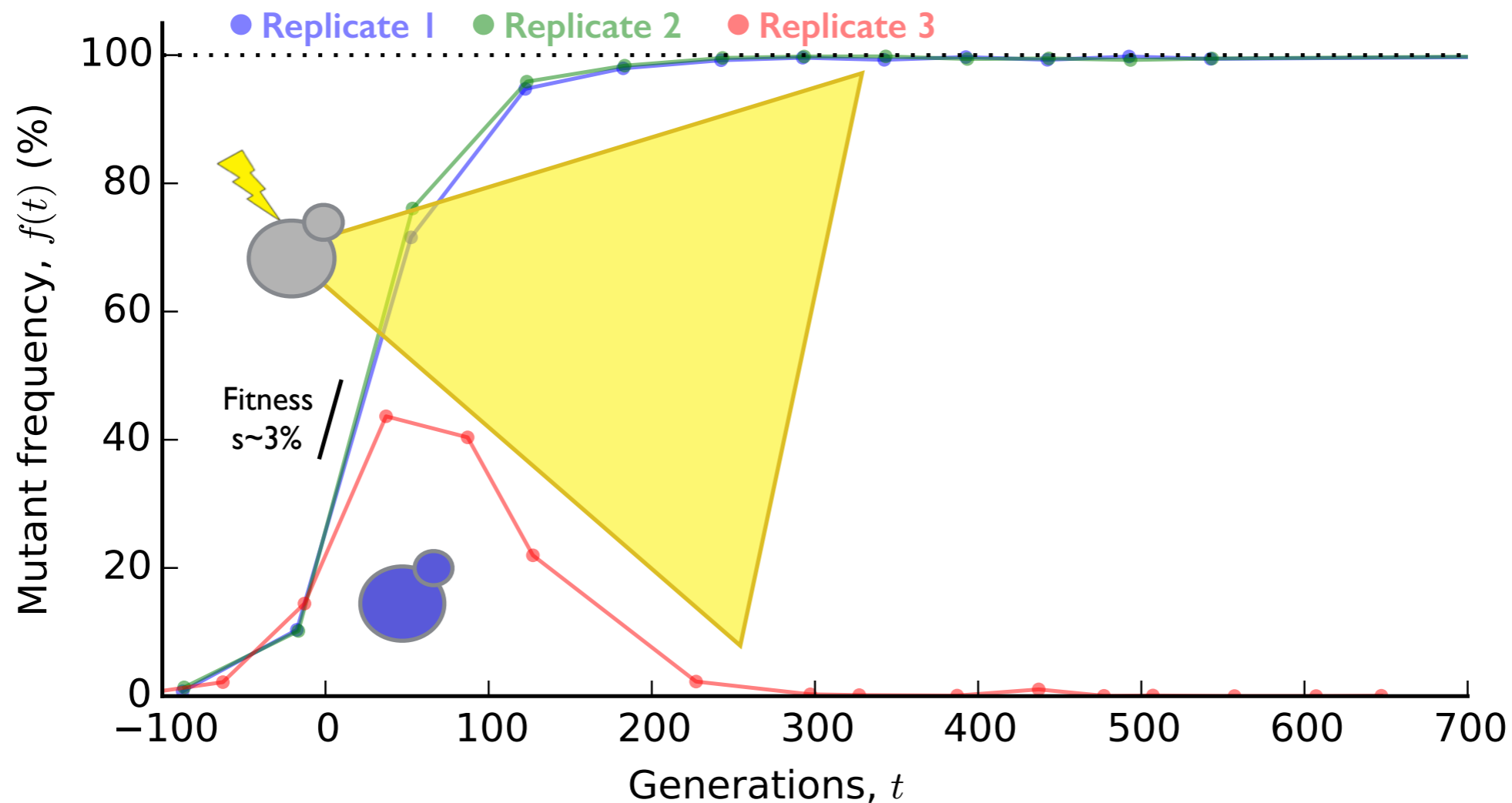
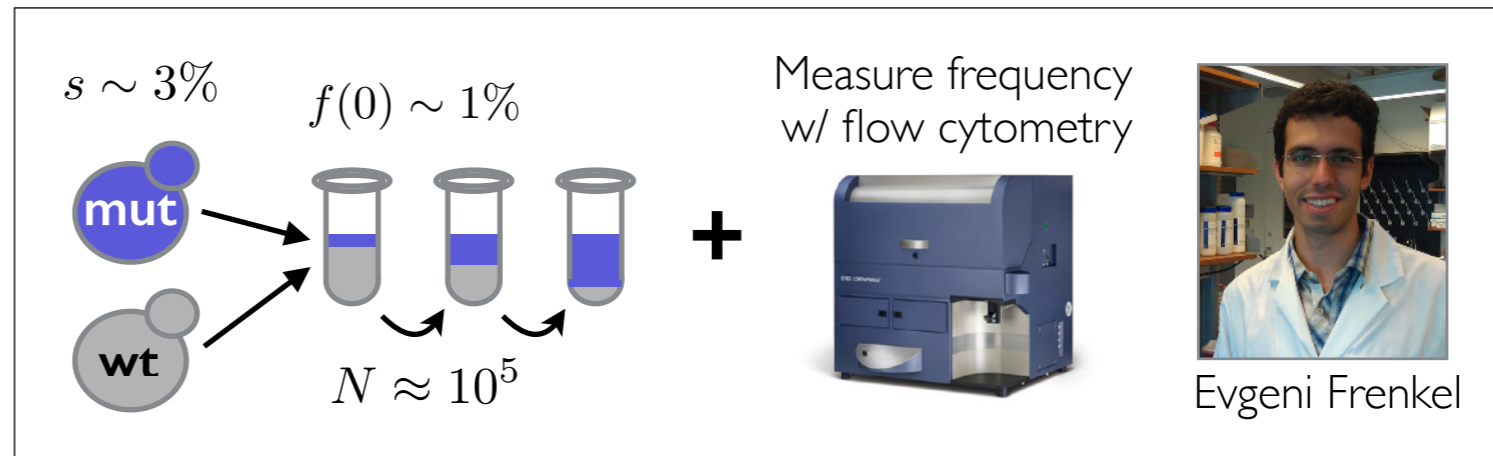
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# A laboratory “test” of the single-locus model

## Single-locus model

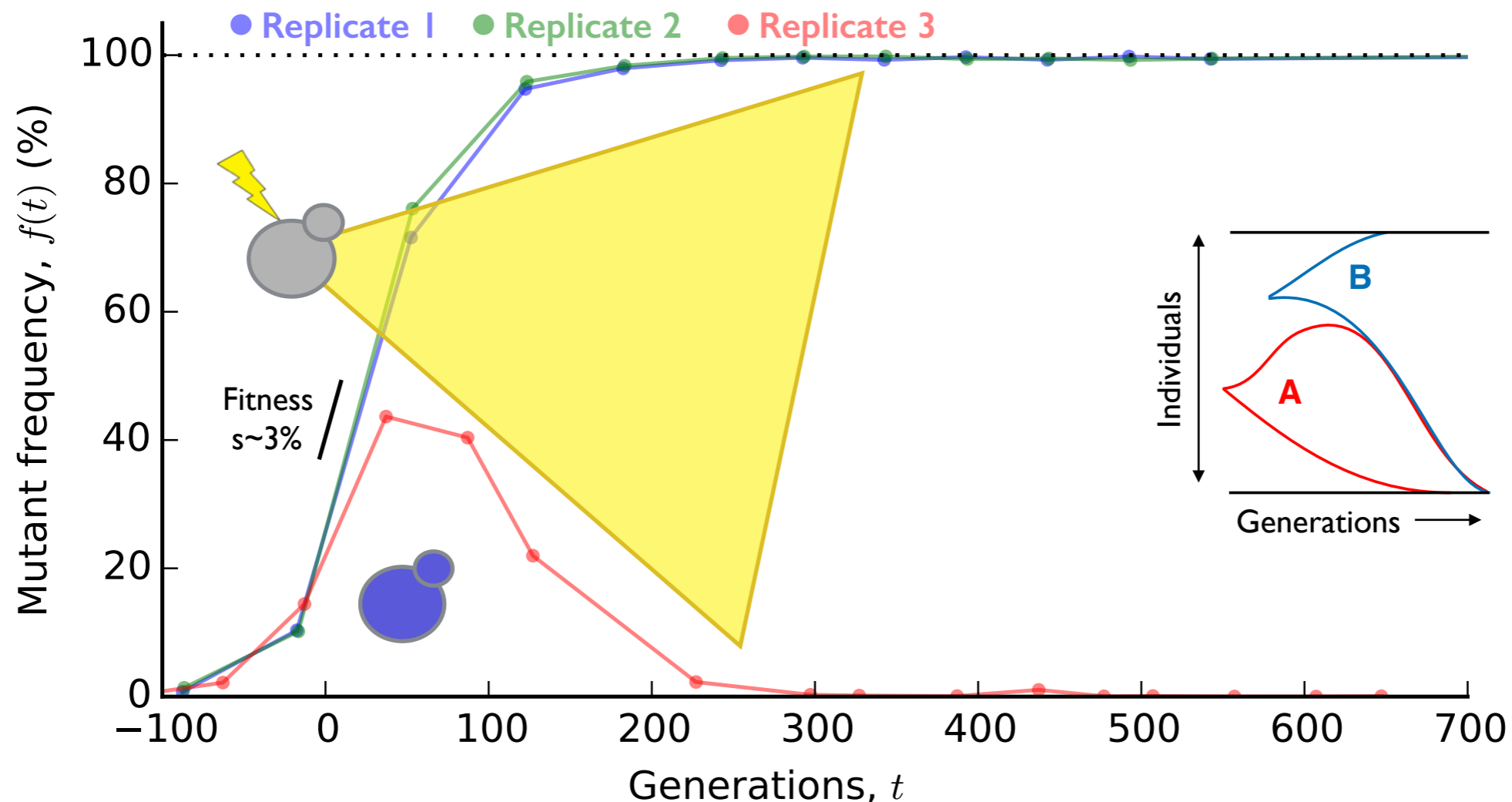
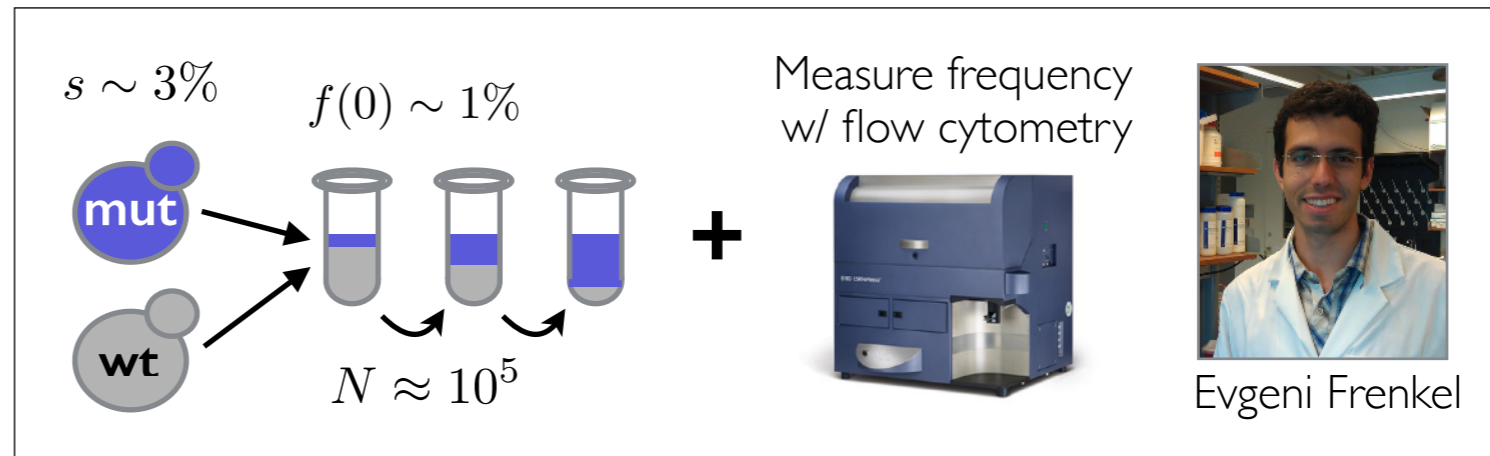
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# A laboratory “test” of the single-locus model

## Single-locus model

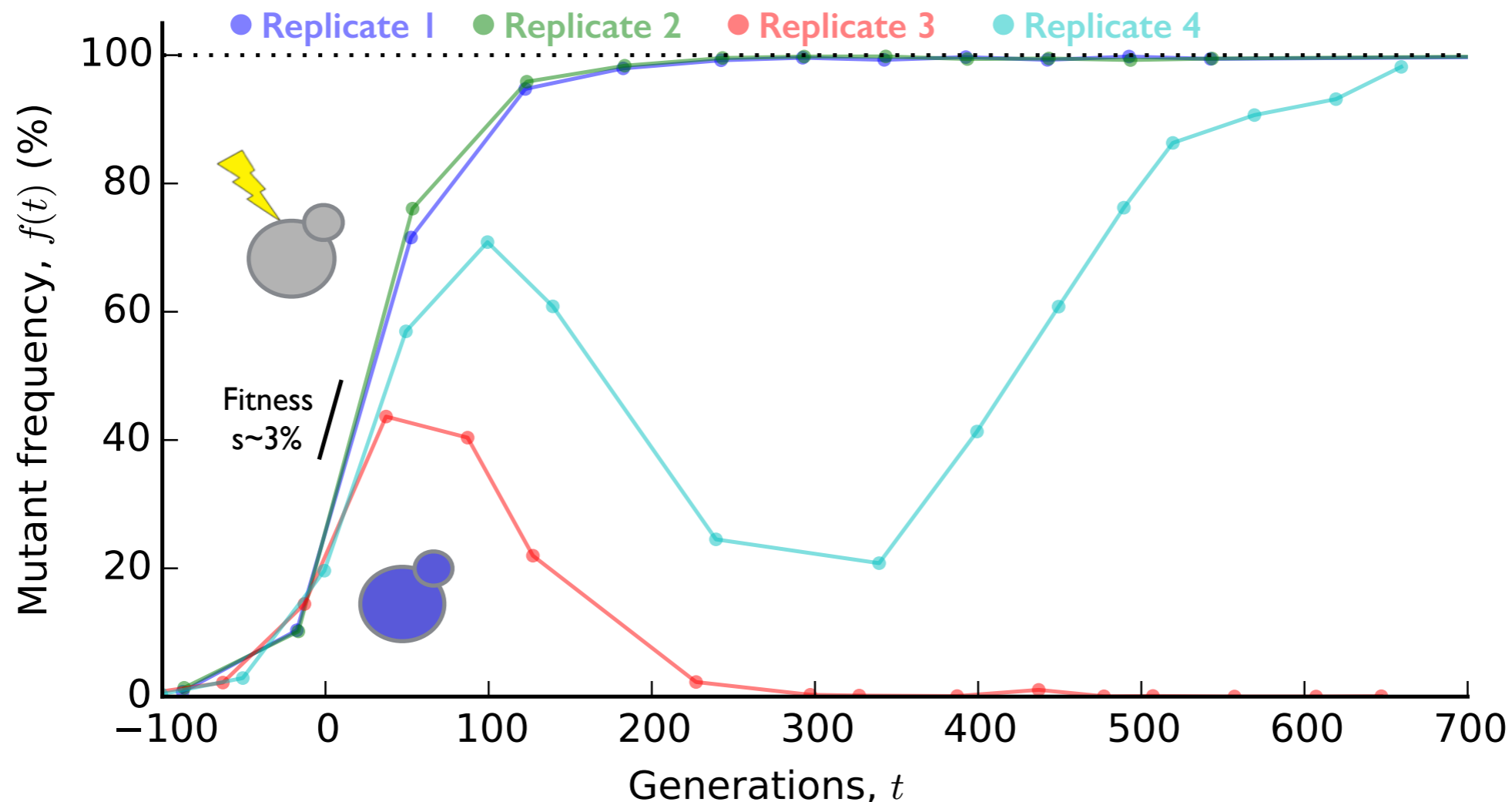
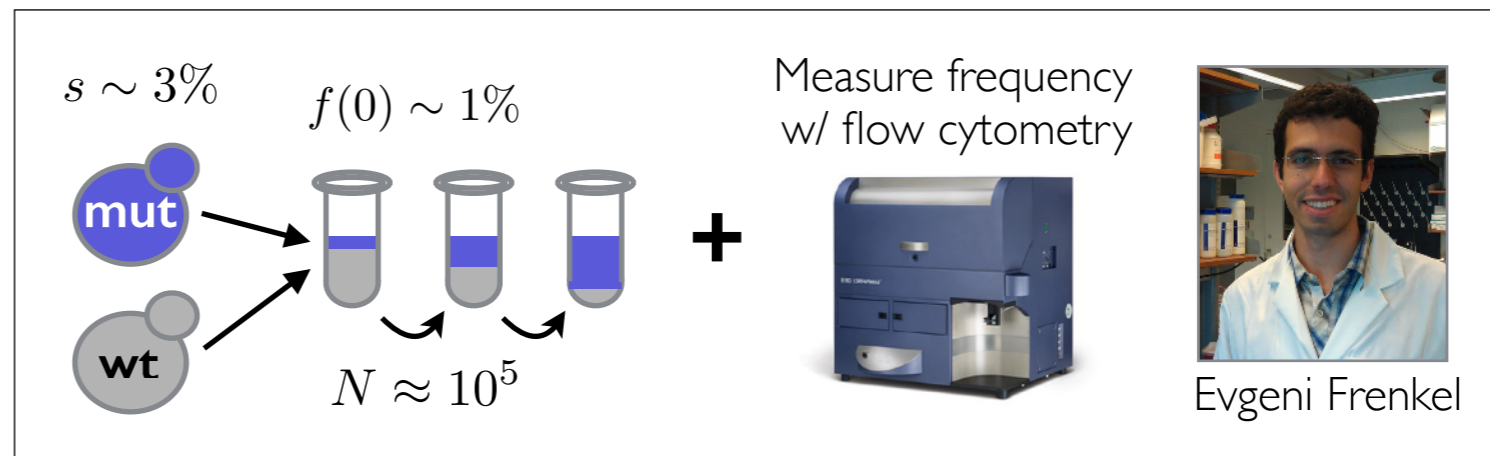
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# A laboratory “test” of the single-locus model

## Single-locus model

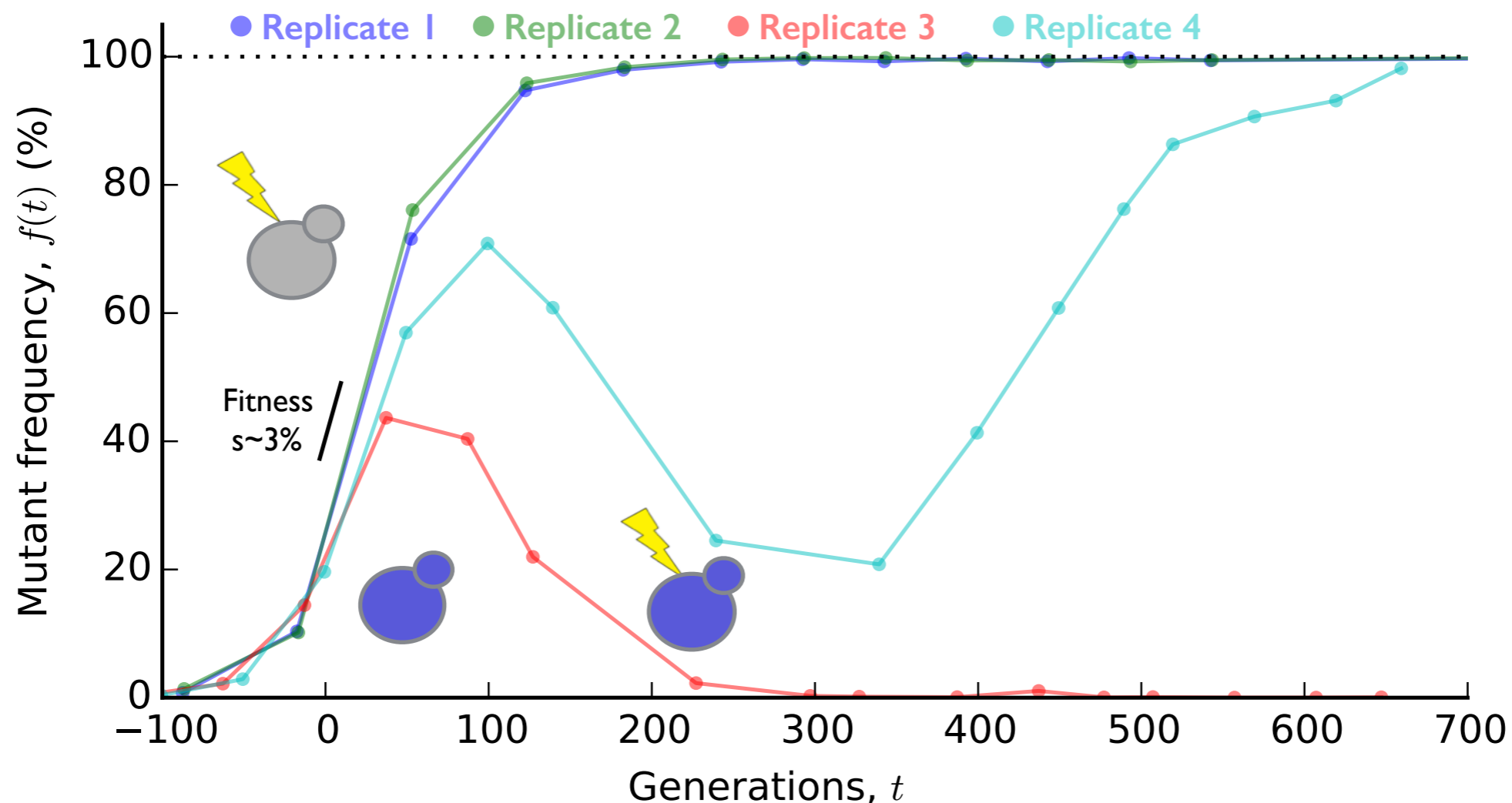
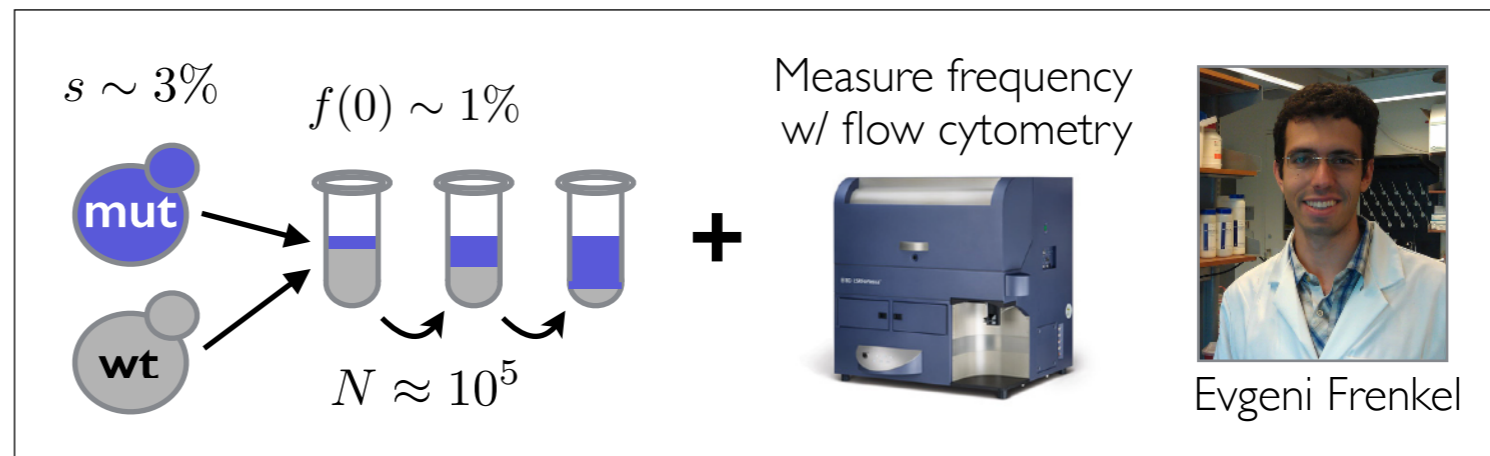
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# A laboratory “test” of the single-locus model

## Single-locus model

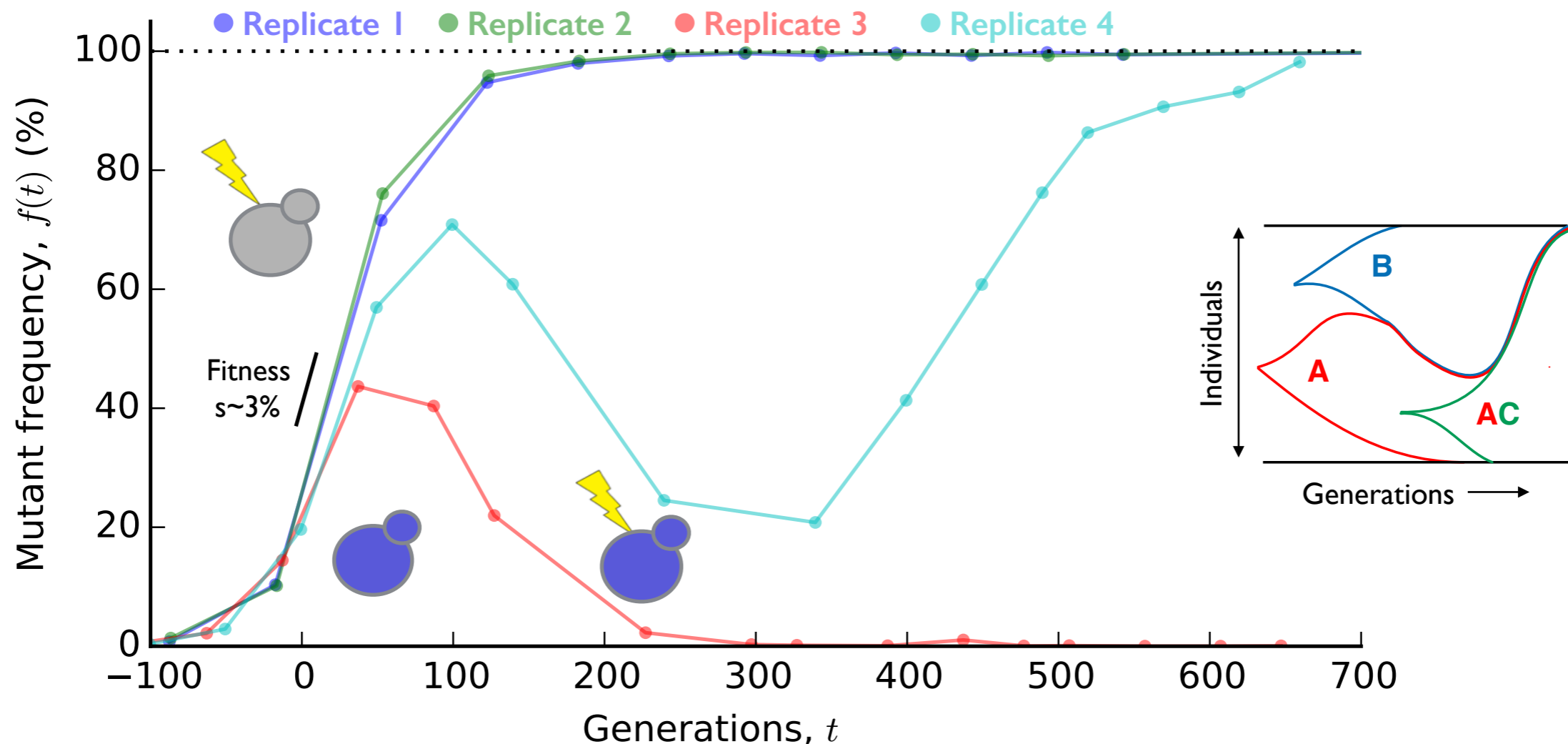
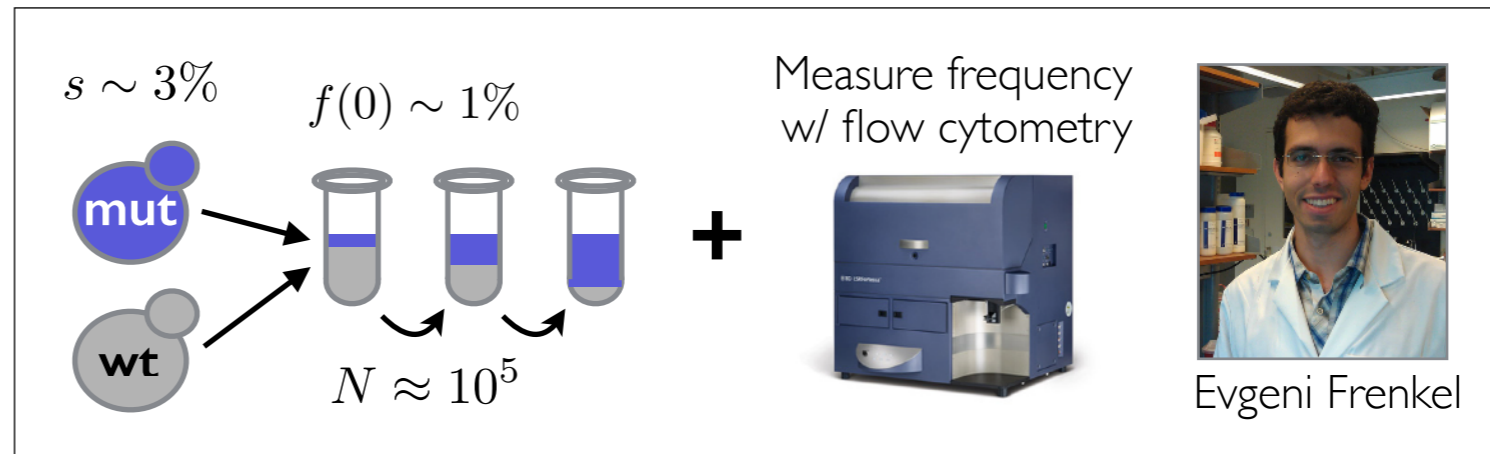
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# A laboratory “test” of the single-locus model

## Single-locus model

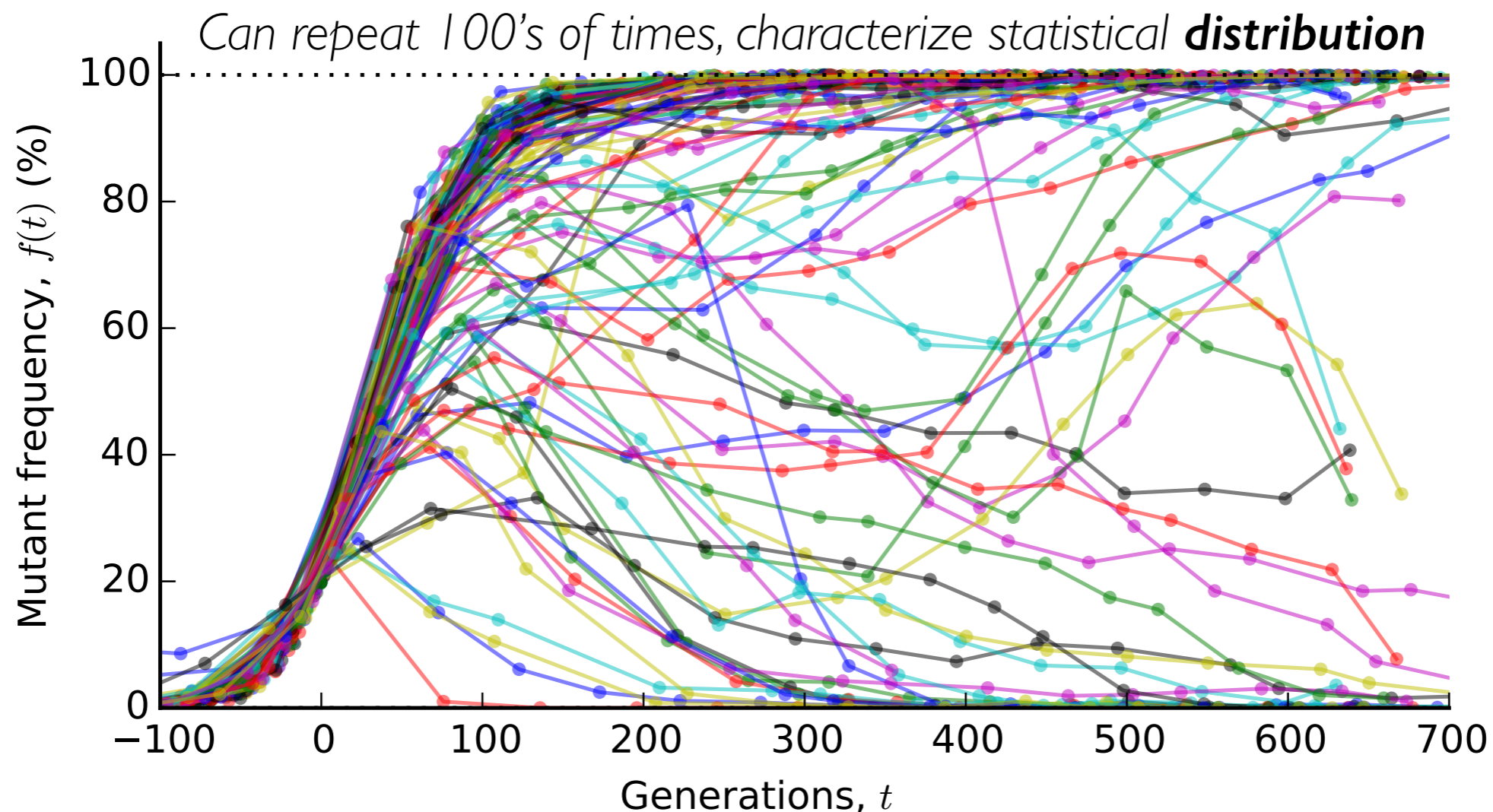
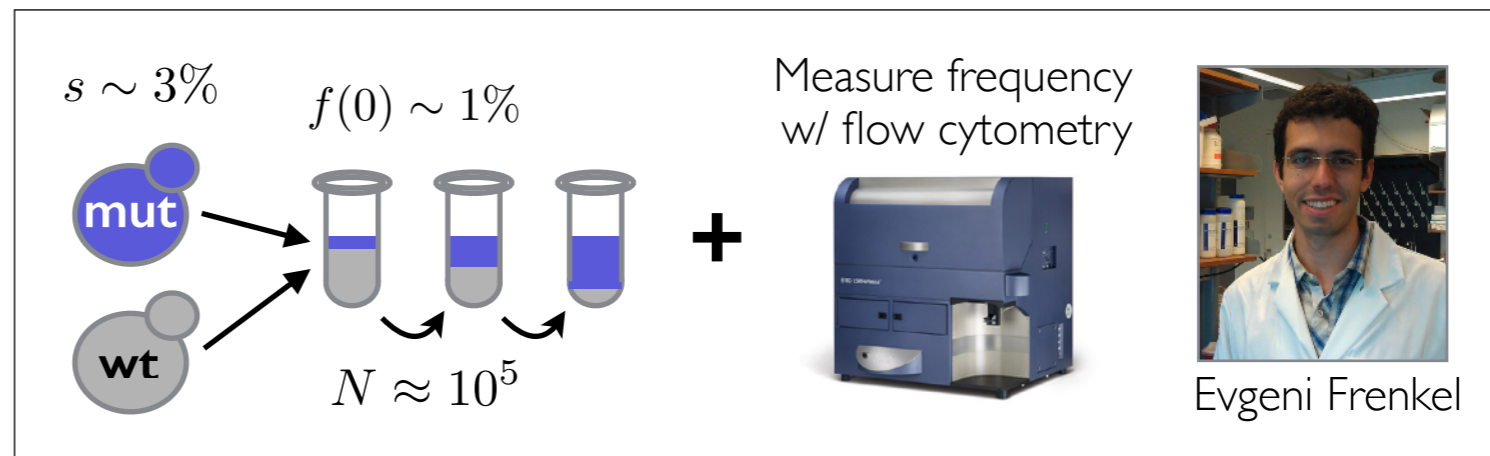
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# A laboratory “test” of the single-locus model

## Single-locus model

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# A laboratory “test” of the single-locus model

## Single-locus model

$$\frac{\partial f}{\partial t} = \underbrace{sf(1-f)}_{\text{natural selection}} + \underbrace{\sqrt{\frac{f(1-f)}{N}}\eta(t)}_{\text{number fluctuations ("genetic drift")}}$$

$s \sim 3\%$

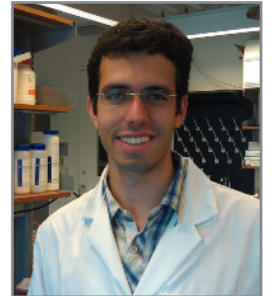
$f(0) \sim 1\%$

Measure frequency  
w/ flow cytometry

mut

wt

$N \approx 10^5$



Evgeni Frenkel

