

Generation		Heterozygous Mutations	Homozygous Mutations	Mutagenesis or Transformation Event
—	M ₀	0	0	
T ₀	M ₁	2μC	0	
T ₁	M ₂	$\frac{1}{2}(2\mu C) + 2\mu C$	$\frac{1}{4}(2\mu C)$	
T ₂	M ₃	$\frac{1}{2} \left[\frac{1}{2}(2\mu C) + 2\mu C \right] + 2\mu C$	$\frac{1}{4}(2\mu C) + \frac{1}{4} \left[\frac{1}{2}(2\mu C) + 2\mu C \right]$	
T _t	M _t	$2\mu C \sum_1^t \left(\frac{1}{2}\right)^{t-1}$	$\frac{1}{4}2\mu C \sum_{i=1}^{t-1} \sum_{j=1}^i \left(\frac{1}{2}\right)^{j-1}$	
		$\frac{1}{2}(\text{Het}_{t-1}) + 2\mu C$	$\text{Hom}_{t-1} + \frac{1}{4}(\text{Het}_{t-1})$	