

TABLE 5. Mutation Rates in Higher Eukaryotes Estimated from Whole Genomes¹

Organism	Trait Measured	U_h
Estimated by mutation accumulation:		
<i>E. coli</i>	Rate of reproduction	≥ 0.0002
<i>C. elegans</i>	Lifetime reproductive success	≥ 0.0006
<i>A. thaliana</i>	Lifetime reproductive success	≥ 0.1
<i>D. melanogaster</i>	Egg-to-adult viability	≥ 0.3
Estimated indirectly:		
Several selfing plants	Various life-history traits	0.5
<i>D. melanogaster</i>	Various life-history traits	0.3
<i>D. pulicaria</i>	Various life-history traits	0.5
<i>D. arenata</i>	Various life-history traits	0.3

NOTE: U_h = mutations per haploid genome per sexual generation.