

TABLE 1

Some estimates of haploid mutation rates and effects of mutations from previous MA experiments

Taxon	Fitness component	U	$E(a)$	Reference
<i>D. melanogaster</i>	Viability	0.35	0.027	MUKAI (1964)
	Viability	0.47	0.023	MUKAI <i>et al.</i> (1972)
	Viability	0.14	0.03	OHNISHI (1977)
	Viability	0.02	0.1	GARCIA-DORADO <i>et al.</i> (1999)
	Viability	0.052	0.11	FRY <i>et al.</i> (1999)
<i>A. thaliana</i>	LRS	0.05	0.23	SCHULTZ <i>et al.</i> (1999)
	Fruit no.	0.06	0.06 ^a	SHAW <i>et al.</i> (2002)
<i>C. elegans</i>	r	0.0035	0.1	KEIGHTLEY and CABALLERO (1997)
	r	0.008	0.2	VASSILIEVA and LYNCH (1999)
<i>S. cerevisiae</i>	MGR	0.000063	0.061 ^a	S. B. JOSEPH and D. W. HALL (this study)
	r	0.0011	0.086 ^b	WLOCH <i>et al.</i> (2001)
	r	0.000048	0.217 ^a	ZEYL and DEVISSER (2001)
	r	—	0–0.049 ^{a,c}	ZEYL and DEVISSER (2001)
<i>E. coli</i>	r	0.00017	0.012 ^b	KIBOTA and LYNCH (1996)

The effect of mutations is measured in homozygotes, except where noted. LRS, lifetime reproductive success; MGR, maximum growth rate; r , growth rate. Modified from BATAILLON (2000).

^a Mean effect in heterozygotes.

^b Mean effect in haploids.

^c Data from a mutator line.