DeLange and Mishra
1982. Mut. Res 96:187-

TABLE 2

A SUMMARY OF THE CHARACTERISTICS OF *mus* MUTANTS

Mutant	Location (L.G.) and allele designation	Sensitivity [a] to			Sensitivity to medium containing		Growth on minimal medium	Meiotic defect in homozygous crosses	Spontaneous mutation frequency
		UV	X-rays	MMS	MMS	Histidine			
mus-(SC3)	(VI) *mus-14* 2	NS	NS	NS	S(2×)	NS	poor	none	low (0.02×)
mus-(SC28)	(I) *mus-13*	NS	NS	NS	S(2×)	NS	poor	none	N.D.
mus-(SC13)		S(1.5×)	NS	S(1.6×0	NS	NS	poor	none	normal? (0.45×)
mus-(SC15)	(V) *mus-12*	NS	S(2×)	NS	S(6×)	NS	normal	none	high (12.7×)
mus-(SC10) [b]	(II) *mus-14* (III) (VI)	S(1.9×)	S(2–3×)	S(9×)	S(8×)	S	normal	sterile abortive spore numbers high	high (10.8×)
mus-(SC25) [a]	(I) *mei-3*	S(1.5×)	S(2×)	S(4×)	S(8×)	ND	normal	barren	normal? (1.7×)
mus-(SC29) [c]	*(I) mei-3*	S(2.2×)	S(2×)	S(10×)	S(15×)	ND	normal	barren	normal? (1.4×)

[a] Conidia were treated as described in Materials and Methods. NS, not sensitive; S, sensitive; ND, not determined. Data in parentheses indicates the magnitude of increase as compared to the wild-type.

[b] *mus-(SC10)* represents a translocation since it shows linkage to *arg-5* (LGII), *Trp-1* (LGIII) and *ad-1* (LGIV) (see DeLange and Mishra, 1981).

[c] Allele of *mei-3* (DeLange and Mishra, 1981).

mus-(SC13) ascospore
(0.4 cm/day); several
at a wild-type rate. Co-
not possible to ascertai
for MMS sensitivity.

Many *mus-(SC10)* i
medium. Similarly, *mu*
were only assumed af
mus-(SC15) among all
(SC29) produced colo
growth on sorbose-fre
linked to *sn* and have

Of all these mutant
sensitivity was expres
growth curves). Histic
mus-(SC10), i.e. MMS
male parent, in all 17

Utilization of DNA
starved of inorganic
nucleases, phosphatase
tion of exogenous DN
and Nelson, 1977). Sin
these DNA salvage enz
of the present MMS-s
pathways. When the se
DNA as the only sour
The *nuc-1* and *nuc-2*
phate, but not on me
indicate that the MM
enzymes of the DNA

Meiotic defects. M
are fertile in homozyg
Table 2). The infertilit
been reported previou
pore abortion found i
that this mutation is
groups II, III and
mus-(SC10) could not

Discussion

In Neurospora, M
(Schroeder, 1975; Ka
comparison of the lin