mitants.

sensitive

Additional irreparable temperature-

The heat-sensitive mutants tabulated below either are unmapped, or have not been assigned locus numbers because allelism has not been excluded at one of the 23 established maloci. Mutants with allele numbers prefixed 1 (signifying Tokyo) originated from experiments of Inoue and Ishikawa (1970, Japan. J. Genet. 45: 357-369). These were Winduced in wild type 74A except for mutants numbered T51 which came from experiments where X-rays were used. Temperatures used for testing were 35° vs. 25°C. un(PB319) was extracted from FGSC stock

1758 (designated Abbott 12a); FGSC 1758 also contains the temperature-sensitive scot gene. un(P73G14) originated in al-3 inlt (FGSC stock 2309) following enrichment by inositolless death on minimal medium at 34°C (1973 experiment of N.E. Murray). un(0Y351) was identified in 1978 by 0.C. Yoder in al-2 (FGSC 3448) following filtration enrichment.

TABLE I

Irreparable heat-sensitive mutants not yet assigned locus numbers because allelism with named un loci has not been excluded

Mıtant	FGSC stock nunber	No. in 1970 paper of Inoue and Ishikawa	Li nkage	Characteristics	
un ( <u>T</u> 28M15)	4304		I	Dies at 38°C	UV
un ( <u>T</u> 33M8)	4311	4		Separated from T(IV;V) <u>T</u> 33M8	UV
un ( <u>T</u> 42M34)	4305			Survives at 38°C	UV
un ( <u>T</u> 42M36)	4312			Separated from T(III; IV) <u>T</u> 42M36	UV
un ( <u>T</u> 42M38)	4306		IL, near <u>mt</u>	Dies at 38°C	UV
un ( <u>T</u> 42M39)	4307			Some survival at 38°C	UV
un ( <u>T</u> 42M46)	4308			Survives at 38°C	UV
un ( <u>T</u> 42M54)	4309			Survives at 38°C	UV
un ( <u>T</u> 42M56)	2352. 2353	12	VI, probably allelic <u>un-13</u>		UV
un ( <u>T</u> 42M62)	4293			slow growth from ascospores, 25°C	UV
un ( <u>T</u> 42M68)	4294			slow growth from ascospores, 25°C	. uv
un ( <u>T</u> 42M70)	4295			Normal growth at 25°C	UV
un ( <u>T</u> 51M154)	2354, 2355	22	VI, near or at <u>un-13</u>		x- rays
un ( <u>T</u> 51M166)	4313		II	Separated from T(I;V1) T51M166	x-rays
$un(\underline{T}52M23)$	4296	26		Normal growth at 25°C	UV
un ( <u>T</u> 54M57)	4314				UV
un ( <u>T</u> 54M58)	4297	37		slow growth from ascospores at 25°C- osnotic remediable	UV
un ( <u>T</u> 54M68)	4315				UV
un (P73G14)	<b>43</b> 10		I, near or at <u>un-7</u>	Scorable at 38°C	EMS
un (0Y351)	4316				UV
wn (P8319)	3849		IV, near <u>un-12</u> :	Scorable at 38°C	

Stocks of the new mutants have been deposited in FGSC. The strains deposited have been derived from the originals by passage through at least one cross with an OR wild type. Stadler has also recently described new irreparable heat-sensitive mutants (Neurospora Newsl. <u>28:</u> 18.19, 1981). - Institute of Applied Microbiology, University of Tokyo, Bunkyo-ku, Tokyo 113, and Department of Biological Sciences, Stanford University, Stanford, California 94305.