Table 1. Reciprocal translocations from mutagensensitive mutants.

Maternal	Ge	enotype	es of p	rogeny	recovere	ed %
genotype	Dose	+	T(Y;2)	T(Y;3)	T(2;3)	trans
W	-	1366	0	0	0	-
mus101 ^{D1}	-	1314	0	0	0	_
mus104 ^{D1}	~	1458	0	0	0	-
mei-41 ^{D5}	-	1259	0	0	2	0.16
w	0.2%	1106	0	1 .	7	0.72
mus101 ^{D1}	0.2%	1291	0	. 0	0	-
mus104 ^{D1}	0.2%	1553	1	1	5	0.45
mei-41 ^{D5}	0.2%	707	1	1	3	0.71

The untreated controls produced a surprising result; two independent translocations were recovered from mei-41^{D5} females, while no spontaneous translocations were recovered from the other crosses. A recent large scale study suggests that the spontaneous translocation frequency is about 10 (Mason et al. in prep.). In previous studies mei- 41^{D5} females did not show an increase in the spontaneous recessive lethal frequency (Graf et al. 1979). Smith (1973) reported an increase in the spontaneous recessive lethal frequency from emi-41Al males, although Mason (1980) could not find an increase from mei-41D3 or mei-41D5 males. It is not entirely clear why mei-41D5 should increase the frequency of spontaneous translocations but not

recessive lethals, although the extremely low spontaneous translocation frequency in the control makes any induced translocations much more noticeable.

References: Graf, Green & Wurgler 1979, Mutation Res. 63:101-112; Mason 1980, Mutation Res. 72:323-326; Smith 1973, Mutation Res. 20:215-220; Wurgler & Graf 1980 in "DNA Repair and Mutagenesis in Eukaryotes" pp. 223-240.

Mather, W.G. & A.K. Pope. University of Queensland, Brisbane, Australia. Inversions from Chiang Mai, Thailand.

In July 1982 thirty-six isolines of D.s. albostrigata and six isolines of D. albomicans were established from Chiang Mai, Thailand.

Inversions in these species were last reported on from a collection made at Phuket in

February 1982 (Mather & Pope DIS 59:-).

- (a) D.s. albostrigata: Seven simple inversions were detected. All had previously been recorded from East and South East Asia (Table 1).
- (b) D. albomicans: Four simple and one complex inversion were detected. All had been previously recorded elsewhere (Table 2).

The material was collected and the isolines established by W.B.M. The laboratory work was carried out by A.K.P.

Table 1. D.s.albostrigata, Chiang Mai.

Table 2. D. albomincans, Chiang Mai.

Inversion	Chromosome	Het. Freq. %	Inversion	Chromosome	Simple	Complex		
A ₅	IIL	27.7	s ₅	IIL	X			
c_1	III	2.7	$c_1^{}$	III	X			
1,	IIL	22.2	12	IIL	X			
В ₅	III	13.8	E ₆	III		X		
N ₅	III	2.7	L ₃	III	X			
c ₅	IIR	2.7		_				
P ₅	III	2.7						