

A more precise mapping of trp-5 in *Neurospora crassa*

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Abstract

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Ahmad et al. (1968 Genet. Res. 12:103) reported that a new locus, trp-5, in Neurospora crassa was located in linkage group VR 26.3 centimorgans from ilv-1 and 21.8 centimorgans from lys-2. This location of trp-5 left the position of trp-5 in doubt with respect to a number of other loci (his-1, arg-4, arg-8, inl, pab-1, met-3, pan-2), all of which lie distal to lys-2 in VR.

While other data on linkage relationships of loci in VR will be reported later, an analysis of a three point cross between met-3 (92935) and inl (37401), trp-5 (A420) are presented below.

Zygote genotype and percent recombination	Parental Types	Recombinants			Total
		<u>1</u>	<u>2</u>	<u>1,2</u>	
<u>met-3</u> + <u>inl</u>	546	24	24	11	1380
+ <u>trp-5</u> +	743	7	15	9	
(3.7)					(4.3)

The trp-5 locus thus lies distal to inl but proximal to met-3. The pab-1 locus is also located between inl and met-3, but efforts to determine the relative positions of trp-5 and pab-1 have not been successful so far due to the leakiness of pab-1 (alleles 1633, 830 and 5359). The map distance of about 8.0 units between met-3 and inl reported above agrees with the map distance between these loci as shown by Fincham and Day (1971 Fungal Genetics, Third Ed.) but differs from the findings of Grant (1945, M.A. Thesis, Stanford University) who estimated the distance between met-3 and inl to be 23.7 units. - - - Botany Department, The Queen's University of Belfast, Northern Ireland; Biology Department, The Quaid-I-Azam University, Islamabad, Pakistan.