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A new uvs mutant

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Abstract A new <i>uvs</i> mutant			
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A new ultraviolet-light-sensitive mutant in Neurospora, uvs-6.

Schroeder, A. L., F. J.de Serres and M. E. Schupbach.*

A new UV-sensitive mutant in Neurospora, <u>uvs-6</u> (ALS35), has been isolated using the <u>cr rg</u> replica-plating method of Schroeder (1970 Mol. Gen. Genet. 107: 191). Is shown in the Table, this mutant maps between <u>cr: crisp and <u>al-2</u>: albino-2 in the right <u>arm of linkage group I.</u></u>

The mutant is about 3.3 times more sensitive to UV than is wild type at the UV doses required to reduce both wild-type survival and uvs-6 survival to 37%. A plot of log of per cent survival vs. UV dose giver an exponential curve for uvs-6 and a multi-hit curve for the wild type. The mutant is also about B-fold more sensitive to 7-rays than is wild type at the 7-ray doses required to reduce both wild-type survival and uvs-6 survival to 37%.

Zygote genotype and recombination (%)	Parental combinations	Singles Region I	Singles Region II	Doubles Regions I + II	Total progeny and percent germination	Marker isolation numbers
I ii + uvs-6 +	40	7	3	0	80	8123
cr + al-2 11.2 6.2	2 6	2	2	0	80%	ALS35 15300

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