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A new ultraviolet-light-sensitive mutant in *Neurospora*, uvs-6.

A new UV-sensitive mutant in *Neurospora*, uvs-6 (ALS35), has been isolated using the cr rg replica-plating method of Schroeder (1970 *Mol. Gen. Genet.* 107: 291). As shown in the Table, this mutant maps between cr: crisp and al-2: albino-2 in the right arm of linkage group I.

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 gives an exponential curve for uvs-6 and a multi-hit curve for the wild type. The mutant is also about 8-fold more sensitive to  $\gamma$ -rays than is wild type at the  $\gamma$ -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 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------|------------------|-------------------|------------------------|---------------------------------------|--------------------------|
| <div> <div>I</div> <div>+</div> <div>cr</div> </div> <div> <div>ii</div> <div>+</div> <div>al-2</div> </div> <div> <div>11.2</div> <div>6.2</div> </div> |  |  | 40                    | 7                | 3                 | 0                      | 80                                    | 8123                     |
|                                                                                                                                                          |  |  | 26                    | 2                | 2                 | 0                      | 80%                                   | ALS35                    |
|                                                                                                                                                          |  |  |                       |                  |                   |                        |                                       | 15300                    |

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