

Cytochrome spectra of cytoplasmic mutants

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Abstract

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Bertrand, H. and T. H. Pittenger.

Cytochrome spectra of three cytoplasmic mutants.

The cytochrome difference spectra obtained from mitochondria from several cytoplasmic mutants of *Neurospora* were described by Griffiths et al. (*Neurospora Newsl.* 13: 16). The list of the mutants that were examined did not include [SG-1], [exn-1] and [stp-c]. A culture of [SG-1] (RL3202-23), which presumably has cytoplasmic continuity with the acriflavin-induced [SG] (Srb 1958 Cold Spring Harbor Symp. Quant. Biol. 23:269), was kindly provided by A. M. Srb. The other two mutants, [exn-1] and [stp-c], were obtained after N-methyl-N'-nitro-N-nitrosoguanidine treatments of conidia and vegetatively growing cultures (Bertrand and Pittenger 1968 *Genetics* 60: 161). Mitochondria from young cultures of these three mutants contain the three major cytochromes in relative amounts comparable to mitochondria from the group that includes [poky]. The notable feature on absence of cytochromes a + a₃ (610 mμ), low amounts of cytochrome b (560 mμ) and on excess of cytochrome c (550 mμ). [SG-1] differs from the other mutants in that its difference spectrum has an exceptionally pronounced R-peak for cytochrome c. Whether this feature is characteristic of [SG-1] or is specific to strain RL3202-23 has not yet been determined. - - -

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