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Increased activity of the first two enzymes of tryptophan biosynthesis

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Abstract

Increased activity of the first two enzymes of tryptophan biosynthesis

Carsiotis, M., A. M. Lacy and D. B. Fankhauser.

Increased activity of the first two enzymes of tryptophan biosynthesis.

mutants of Neurospora crassa.

We have now completed surveying these same mutants and found a similar increase in the first two enzymes of the Pathway (anthranilate synthetase and PR-transferase), thereby providing proof that the entire pathway is elevated in these mutants.

The mechanism of this elevation is currently under investigation. ■ ■ ■ Department of Microbiology, University of Cincinnati College of Medicine, Cincinnati, Ohio and Department of Biological Sciences, Goucher College, Towson, Maryland

As reported earlier (Carsiotis and Lacy 1965 J. Bacteriol. 89: 1472), the last two enzymes of the tryptophan biosynthetic pathway (indoleglycerol phosphate synthetase and tryptophan synthetase) are elevated two-fold or more in all histidine