

ERRATA

Volume 49, Number 1, October 6, 1972

and

Volume 75, Number 3, April 11, 1977

In the article "Evidence for Uridine 5'-(α -D-Galactopyranosyl Pyrophosphate):NAD 2-Hexosyl Oxidoreductase in Penicillium charlesii," by W. S. Fobes and J. E. Gander, pages 76-83 and in the article "The Enzymatic Oxidation of Adenosine Diphosphoribose," by Mark T. Johnson and J. E. Gander, pages 739-745:

During an investigation to determine the stereospecificity of hydrogen transfer catalyzed by a Penicillium oxidoreductase thought to catalyze the formation of NADH upon addition of UDPgalactose (1), ADPribose (2), or UDPglucose (3), NAD, and enzyme, Dan Herschlag and Steven Janovec, working in the Gander laboratory, found that after removal of ethyl alcohol by rotoevaporation of an aqueous solution of the nucleoside diphosphate sugar preparation, no NADH is formed. The commercial preparation of nucleoside diphosphate sugar had 1 to 2 molecule of nucleoside diphosphate sugar. Free drying these solutions did not completely remove the ethanol.

It was shown that the tritium-labeled substances thought to be derived by reduction of an intermediate nucleoside diphospho-ketosugar were artifacts derived from a combination of reduction of acetaldehyde, tritium exchange into NADH and reduction of NAD. No evidence was obtained for an intermediate nucleoside diphospho-ketosugar. Our conclusions in the papers published in Biochemical and Biophysical Research Communications (1,2) and Biochimica et Biophysica Acta (3) were incorrect because ethyl alcohol, an unrecognized contaminant in the nucleoside diphosphate sugars used as substrate, was not removed.

The enzyme preparation catalyzed the transfer of pro-R hydrogen of ethanol to the re face of NAD as occurs in the alcohol dehydrogenase-catalyzed reaction.

References

1. Fobes, W. S. and Gander, J. E. (1972) Biochem. Biophys. Res. Commun. 49, 76-83.
2. Johnson, M. T. and Gander, J. E. (1977) Biochem. Biophys. Res. Commun. 75, 739-745.
3. Johnson, M. T. and Gander, J. E. (1978) Biochim. Biophys. Acta 523, 9-18.

Volume 161, Number 1, May 30, 1989

In the article "Regional Distribution of Immunoreactive Endothelin in Porcine Tissue: Abundance in Inner Medulla of Kidney," by Kazuo Kitamura, Tomoko Tanaka, Johji Kato, Tanenao Eto, and Kenjiro Tanaka, pages 348-352:

On page 349, line 4 from the bottom, "cDNA" should read "genomic DNA."

On page 352, line 27, the reference should be (4) instead of (5).