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Retraction: Heterologous expression, purification and characterization of nitrilase from Aspergillus niger K10

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Retraction

The authors have retracted this article [1] due to the ethical misconduct of Karel Bezouska and misappropriation of data which fundamentally changes the main findings of the article. Specifically, the upper amino acid sequence in Figure 1 (by KB) in BMC Biotechnol 11:2 was incorrect, therefore Nit-ANigWT and Nit-ANigRec (nitrilase expressed in *E. coli* harbouring a *nit* gene from *A. niger* K10) were not variants of the same enzyme as hypothesized in the original article. The different biochemical properties of Nit-ANigWT and Nit-ANigRec discussed in the paper were caused by a significant difference in the primary structures of these enzymes.

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Reference

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