Article

6 **Genome-wide patterns of adaptation to temperate environments associated with transposable elements in Drosophila.**

González J, Karasov TL, Messer PW, Petrov DA
PLoS Genet. 2010; 6(4):e1000905

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Evaluations

Classification Key

Evaluated by Ary Hoffmann 26 May 2010

In this paper, the authors for the first time undertake a detailed evaluation of the incidence of different transposable elements (TEs) potentially linked to climate adaptation.

The authors consider the ends of two climate clines in Drosophila melanogaster from North America and Australia and characterize the frequency of TEs in a diverse set of genes. They find a number of TEs that differ in frequency with consistent patterns across continents. These results point to a potential adaptive role for the TEs in climatic adaptation, potentially through affecting the expression of adjacent genes.

Competing interests: None declared

Cite this evaluation

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University of Melbourne, Australia
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Rating 6 Recommended

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