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

Evaluated by [Ary Hoffmann](#) 26 May 2010

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

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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.

Evaluated by:
[Ary Hoffmann](#)
 University of Melbourne,
 Australia
 Ecology
 26 May 2010

Relevant Sections

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.

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Competing interests: None declared

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