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Title:	Analysis of dinucleotide signatures in HIV-1 subtype B genomes
Authors:	Sinha, Somdatta (/jspui/browse?type=author&value=Sinha%2C+Somdatta)
Keywords:	Genomes Taxonomi Organisms
Issue Date:	2013
Publisher:	Springer Link
Citation:	Journal of Genetics, 92(3),pp.403-412.
Abstract:	Dinucleotide usage is known to vary in the genomes of organisms. The dinucleotide usage profiles or genome signatures are similar for sequence samples taken from the same genome, but are different for taxonomically distant species. This concept of genome signatures has been used to study several organisms including viruses, to elucidate the signatures of evolutionary processes at the genome level. Genome signatures assume greater importance in the case of host-pathogen interactions, where molecular interactions between the two species take place continuously, and can influence their genomic composition. In this study, analyses of whole genome sequences of the HIV-1 subtype B, a retrovirus that caused global pandemic of AIDS, have been carried out to analyse the variation in genome signatures of the virus from 1983 to 2007. We show statistically significant temporal variations in some dinucleotide patterns highlighting the selective evolution of the dinucleotide profiles of HIV-1 subtype B, possibly a consequence of host specific selection.
Description:	Only IISERM authors are available in the record.
URI:	https://link.springer.com/article/10.1007/s12041-013-0281-8 (https://link.springer.com/article/10.1007/s12041-013-0281-8) http://hdl.handle.net/123456789/3036 (http://hdl.handle.net/123456789/3036)
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