

Genetic diversity at the FMR1 locus in the Indonesian population

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Abstract

We report an analysis of allelic diversity at short tandem repeat polymorphisms within the fragile XA locus in 1069 male volunteers from twelve Indonesian sub-populations. An odd numbered allele of DXS548 was found at high frequency in all Indonesian populations. Greater allelic diversity was identified at the loci under study than has been previously reported for an Asian population. These differences distinguish the Indonesian population from all previously reported Asian, European and African populations. A high frequency of small premutation alleles, 4/120 (3.3%, 95% CI 0.9–8.3%), was identified in the Moluccan population of Hiri Island.

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Annals of Human Genetics (2000), 64 (04): 329-339 Cambridge University Press

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doi:10.1046/j.1469-1809.2000.6440329.x (About doi)

Published online by Cambridge University Press 09 Nov 2000

<http://journals.cambridge.org/action/displayAbstract?aid=58255>