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Topology of chromosomes 18 and X in human blastomeres from 3- to 4-day-old embryos.

Diblik J, Macek M Sr, Magli MC, Krejci R, Gianaroli L.

Institute of Biology and Medical Genetics, University Hospital Motol, V Uvalu 84, Prague 5 CZ-150 06, Czech Republic.

The positions of chromosomes 18 and X fluorescence in situ hybridization signals were analyzed in blastomeres generated from human in vitro fertilization 3- to 4-day-old embryos after preimplantation screening of aneuploidy of chromosomes 13, 16, 18, 21, 22, X, and Y. Fluorescent signal localization compared with a three-dimensional sphere model of random signal distribution revealed significant differences, providing evidence of peripheral localization of chromosome 18 in aneuploid ($p=0.0013$) and aneuploid/euploid blastomeres ($p=0.0011$). No differences were found in localization of chromosome 18 in euploid and in chromosome X in euploid and aneuploid blastomeres.

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