

Population Cytogenetics of Folate Sensitive Fragile Sites with Special Reference to Mental Retardation



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CGG-Repeat Expansion in the DIP2B Gene Is - NCBI - NIH For instance, the rare folate-sensitive fragile sites are associated with gene FMR1, which underlies the most common familial form of mental retardation. **Heritable fragile sites on human chromosomes. X. New folate** 107 References dation, no additional fragile sites linked with mental retardation have been cloned for over a . The majority of the rare fragile sites are folate-sensitive In the normal population, expansion of the CGG-trinucleotide .. associated with cytogenetic expression of rare fragile sites. special research fund. **Fragile sites and Human Disease - Semantic Scholar** Fragile X syndrome (FXS) is a genetic disorder. Symptoms often include mild to moderate intellectual disability. This results in not enough fragile X mental retardation protein (FMRP), which is required .. a folate deficient medium and then assessing for fragile sites (discontinuity of staining . Genetics Home Reference. **Fragile X syndrome among children with mental retardation** Jul 28, 1981 Preliminary Population Cytogenetic Data SUMMARY. The incidence of the autosomal folic-acid-sensitive fragile sites in 524 institutionalized **Fragile X syndrome - Wikipedia** The molecular basis of common and rare fragile sites . and hypermethylation of a CpG island in FRA10A mental retardation Folate-sensitive fragile site FRA10A is due to an expansion of a CGG repeat in a .. Preliminary population cytogenetic data on the folic-acid-sensitive fragile sites. **In vitro unusual expression of chromosome breakage under folic** A high level of cytogenetic expression of the rare folate-sensitive fragile site In two individuals without mental retardation but with an expanded and population with special reference to fragile sitesJ Ment Defic Res, 31 (1987), pp. 61-71. **In vitro unusual expression of chromosome breakage under folic** Fragile X syndrome among children with mental retardation patients were selected for cytogenetic studies to detect folate sensitive fragile sites. References. **Fragile sites and human disease - Oxford Academic** Feb 1, 1991 Special Issue: X-Linked Mental Retardation 4. Cytogenetics and Somatic Cell Genetics.

Autosomal folate sensitive fragile sites in normal and mentally folate sensitive fragile sites were compared in populations of mentally Further cytogenetic studies of normal and retarded individuals are References. **The fragile X syndrome: the patients and their** - NCBI - NIH Dec 12, 2006 In two individuals without mental retardation but with an expanded and methylated Several of the rare folate-sensitive fragile sites have been associated . The percentage of cells expressing FRA12A on cytogenetic analysis was .. retarded school-age population with special reference to fragile sites. **Institutional Screening for the Fragile X Syndrome JAMA Pediatrics** X-linked mental retardation with macro-orchidism and the fragile site at Xq 27 or study of a population of mentally retarded males with special reference to the Preliminary population cytogenetic data on the folic-acid-sensitive fragile sites. **Syndrome - Yonsei Medical Journal** According to their frequency in the population, two groups are distinguished: rare and To date, eight rare folate-sensitive fragile sites have been 11q13 in a family with cytogenetic expression. fragile site and the mental handicap seems unlikely, as. FRA11A was with special educational needs. . Reference. Family/. **Fragile sites and human disease Human Molecular Genetics** The molecular basis of common and rare fragile sites . and hypermethylation of a CpG island in FRAXE mental retardation Folate-sensitive fragile site FRA10A is due to an expansion of a CGG repeat in a .. Preliminary population cytogenetic data on the folic-acid-sensitive fragile sites. **Autosomal Fragile Site at 2q13 in a Proband with Mental Retardation** The expression frequency of folate sensitive fragile site is evaluated in 5.8 % of abnormal cell population designated as rare fragile site i.e. Xq27, Cytogenetic curiosity and secondly its use as marker for mental retardation. chromosome break points associated with mental retardation under folic acid References. **Chromosome Lesions Which Could Be Interpreted as Fragile Sites** Turner G, Turner BX-linked mental retardation J Med Genet, 11 (1974), p. . Further segregation analysis of the fragile X syndrome with special reference to transmitting Fratini A Excess thymidine induces folate sensitive fragile sites Am J Med Genet, 22 (1985), p. Population cytogenetics Ann Hum Genet, 49 (1985), p. **Heritable Fragile Sites on Human Chromosomes II - NCBI** A chromosomal fragile site is a specific heritable point on a chromosome that tends to form a Rare fragile sites are found in less than 5% of the population, and are often the fragile X syndrome, the most common cause of hereditary mental retardation. .. X. New folate-sensitive fragile sites: 6p23, 9p21, 9q32, and 11q23. **Fragile X syndrome - ScienceDirect** From the clinical point of view, the folate sensitive rare fragile site FRAXA is the most important syndrome, the most common form of familial mental retardation, affecting about . able: 1/80 chromosomes for FRA10B in the Australian population might be regions with special sequence composition which, References. **Fragile sites and human-disease (PDF Download Available)** The expression frequency of folate sensitive fragile site is evaluated in 5.8 % of abnormal cell population designated as rare fragile site i.e. Xq27, Cytogenetic curiosity and secondly its use as marker for mental retardation. chromosome break points associated with mental retardation under folic acid References. existent criteria that have to be considered for an accurate cytogenetic diagnosis. External ciation with X linked mental retardation was noted by Escalante et **CGG-Repeat Expansion in the DIP2B Gene Is - ScienceDirect** The site was found to be both folate-dependent and heritable. The possibility that the presence of this fragile site is linked to mental retardation is discussed. **Autosomal folate sensitive fragile sites in normal and mentally** Most are folate sensitive fragile sites induced by inhibition of folic acid metabolism Most, such as the folate-sensitive fragile site FRAXA associated with the 3Fragile-X The FRAXA fragile sites at Xq28 is a cytogenetic manifestation of the with the 3Fragile X syndrome, a leading cause of mental retardation in humans. **The molecular basis of the folate-sensitive fragile site FRA11A at** Some cultures were grown in a special folic acid free MEM (MEM-FA), [7]. cytogenetic studies in 1973 showed a fragile site to be present in 20% of cells . search for families with possible X-linked mental retardation. . population. . autosomal folic acid sensitive fragile sites would lead to an abnormal REFERENCES. **The fragile X syndrome: the patients and their chromosomes.** Mar 21, 1990 Folate sensitive fragile site on chromosome 2q13 was detected in a female proband Key words: Fragile site, Mental retardation, Fra(2)(q13) article describes the clinical and cytogenetic details a special class of junior high school, and was soon populations (Kahkonen et al, 19897.): REFERENCES. **Chromosomal fragile site - Wikipedia** Jun 13, 2007 A relationship between rare fragile sites and mental retardation has normal population, expansion of the CGG-trinucleotide is rather The non-folate sensitive fragile sites are Distamycin A-sensitive or . Cytogenetic expression of fragile sites .. analysis of the fragile X syndrome with special reference. **Fragile 22q13 segregating in a family - Webb - 1984 - Clinical** Jun 1, 1988 The location and frequency of folate-sensitive common fragile sites (2) 240 mentally subnormal children attending special schools, and (3) References the Fragile X and X-Linked Mental Retardation, Troina 1987 (abstr). **Human chromosome fragility** A Cytogenetic Study in 120 Turkish Children with. Intellectual somal aberrations in 120 patients with mental retardation, language Mental retardation, language disorders,

attention deficit autistic populations have also been carried out by . Special culture (folic acid-sensitive-fragile sites).
Age .. REFERENCES. 1.