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Research Interests

Our group investigates chromosome and subtelomeric abnormalities in patients with ideopathic mental retardation using cytogenetic, FISH and MLPA techniques. These techniques are also deployed to study chromosome breakage (cytogenetics), aneusomy (interphase FISH), and molecular profiling (MLPA) of sporadic breast cancer. We also use cytogentics to study causes of infertility and recurrent abortions. In addition, PGD and other prenatal diagnosis techniques are used to study chromosome abnormalities.

Current research Projects

Current projects include (1) investigation of subtelomeric abnormalities in children with idiopathic developmental delay and mental retardation using MLPA technique, (2) investigation of subtelomeric abnormalities in 50 patients with idiopathic mental retardation and 50 normal controls using MLPA technique and (3) investigation of cryptic chromosome abnormalities in dysmorphic and mentally retarded patients using Array CGH.

Selected publications

- Kuss AW, Garshasbi M, Kahrizi K, Tzschach A, Behjati F, et al. Autosomal recessive mental retardation: homozygosity mapping identifies 27 single linkage intervals, at least 14 novel loci and several mutation hotspots. Hum Genet. 2010 Nov 10. [Epub ahead of print]PMID: 21063731
- Bagherizadeh E, Oveisi M, Hadipour Z, Saremi A, Shafaghati Y, Behjati F. Triploidy in a fetus following amniocentesis referred for maternal serum screening test at second trimester. Indian J Hum Genet. 2010 May;16(2):94-6.
- Darvish H, Esmaeeli-Nieh S, Monajemi GB, … Behjati F, et al. A clinical and molecular genetic study of 112 Iranian families with primary microcephaly. J Med Genet. 2010 Dec;47(12):823-8. Epub 2010 Oct 26.

- Behjati F, Shafeghati Y, Kahrizi K, Firouzabadi SG, Najmabadi H, Dixon N, Davies AF. Interstitial deletion of the short arm of chromosome 10 del(10)(p11.2p12.32) in a patient with congenital heart disease, minor dysmorphism, and mental retardation. Am J Med Genet A. 2008 Dec 15;146A(24):3223-6.
- Behjati F, Shafaghati Y, Firouzabadi SG, Kahrizi K, Bagherizadeh I, Najmabadi H, Bint S, Ogilvie C. M-banding characterization of a 16p11.2p13.1 tandem duplication in a child with autism, neurodevelopmental delay and dysmorphism. Eur J Med Genet. 2008 Nov-Dec;51(6):608-14. Epub 2008 Jul 12.