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# Molecular Analysis of Hotspot Regions of *ARX* and *MECP2* Genes in Intellectual Disability and Cornelia De Lange Syndrome

**Gayatri Kulkarni and Suvidya Ranade***

*Department of Chemistry, Division of Biochemistry, Savitribai Phule Pune University, Pune 411 007, Maharashtra, India*

**KEYWORDS** Mental Retardation (MR). Intellectual Disability (ID). Syndromic ID (SID). Cornelia De Lange Syndrome (CdLS). Non-syndromic ID (NSID)

**ABSTRACT** Intellectual disability is a generalized developmental disorder. The present paper is focused on mutational screening of *ARX* and *MECP2* genes in syndromic (Cornelia De Lange Syndrome cases (CdLS)) and non-syndromic intellectual disability. Mutational analysis was carried out by PCR followed by conformation sensitive gel electrophoresis and sequencing. In CdLS cases two polymorphisms were obtained in *ARX* gene where one of these was probably deleterious polymorphism. In NSID cases total five polymorphisms were obtained in *ARX* gene, where one was probably deleterious polymorphism. The *MECP2* gene showed presence of one polymorphism which was known deleterious variant. Except one all sequence variants found in this paper were novel.