

Association of Genetic Markers with Mental Retardation

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ABSTRACT Five red cell genetic markers namely, acid phosphatase locus 1 (ACP1), esterase D (ESD), glyoxalase locus 1 (GLO1), superoxide dismutase (SOD) and haemoglobin (HB) and five plasma proteins namely haptoglobin (HP), ceruloplasmin (CP), group specific component (GC), transferrin (TF) and albumin (ALB) were studied in mentally retarded individuals from Visakhapatnam area of north coastal Andhra Pradesh, South India. The results were compared with the data obtained from controls. Out of studied ten genetic markers, two namely ACP1 and HP showed significant differences between patients and controls. The risk estimates were also showing a significant association.