

Summary

The study was conducted at the Government College University, Lahore in collaboration with Institute of Bio-Medical and Genetic Engineering, (IBGE) Islamabad. A total 63 blood samples of both left handed criminals and peaceful persons along with right handed persons as a control were processed. DNA was isolated from blood, quantified and then after designing primers for the gene of 5HTT LPR, Polymerase Chain Reactions (PCR) started for all samples. The PCR product results were visualized on agarose gel. The results demonstrated a useful correlation between the left handedness and depression. The result shows that in my studied sample group the homozygous long allele LL found maximum, then the smaller SS allele and the heterozygous SL allele frequency is lowest among the population. In left handed criminals the ratio of SL and SS genotype is predominant over the LL genotype. This shows that in left handed criminals the phenomenon of depression after stress is more powerful so that this depression may have a strong instinct to commit the crimes.