

Serological Variation in Meos and Sunni Muslims and Comparison with Other Castes of Haryana

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ABSTRACT The present investigation involves the study of distribution of serological traits (A1A2BO, MN and Rh(D) blood group systems) among Meos and Sunni Muslims and their comparison with other castes of Haryana, which are, *Jat, Ahir, Ror, Saini, Kamboj, Kumhar* and *Chamar*. The frequency of different alleles falls well within the range of other castes of Haryana. Chi-square values for these blood groups systems showed statistically non-significant differences. The allele frequencies showed considerable heterogeneity among these populations. Meos and Sunni Muslims have similar values of hetrozygosity, that is, 0.507 and 0.503, respectively. These values are higher than other studied populations of Haryana. From the genetic structure analysis it was seen that only a small fraction of total gene diversity accounts for genetic difference among them and major portion of it was due to genetic variation within them. Minimum genetic distance (0.00064) was observed between *Ahir* and *Kamboj* and maximum (0.04931) between *Jat* and *Ror*.