

Distribution and Inheritance of Selected Morpho-genetic Traits

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ABSTRACT The present study has been carried out to determine the inheritance and distribution of various morpho-genetic traits on 100 families of various (Haryana) comprising of 100 fathers and 100 mothers and their 255 children. Out of 255 children examined, 110 are sons and 145 daughters. The twelve morpho-genetic and behavioural traits studied include ear lobe attachment, tongue rolling, tongue folding, arm folding, hand clasping, handedness, thumb flexibility, mid phalangeal hair, digital hair, length of index finger relative to ring finger, length of second toe relative to great toe and iris colour. The results of the present study indicate that in majority of the traits there is greater influence of fathers on sons and mothers on daughters as regards to mode of inheritance and this has been found to be statistically significant. A comparison with the available studies on neighboring populations for distribution of these traits has been made with fathers and mothers of the present study.