

Alu Insertion / Deletion Polymorphisms in Yadava Population of Andhra Pradesh, South India

V. M. Ravindranath¹, N. Lakshmi², M. Ramesh² and P. Veerraju²

1. Institute of Human Genetics, University of New Castle Upon Tyne, New Castle Upon Tyne, UK

2. Department of Human Genetics, Andhra University, Visakhapatnam 530 003,

Andhra Pradesh, India

E-mail: pvraju@rediffmail.com

KEYWORDS Alu insertion/deletion polymorphisms; Yadavas; Andhra Pradesh; South India; allele frequency; average heterozygosity; genetic distance

ABSTRACT Four Alu insertion/deletion polymorphisms (Alu TPA25, Alu ACE, Alu PV92 and Alu APO) were studied in Yadava population from Visakhapatnam, Andhra Pradesh. Blood samples were collected from fifty unrelated healthy donors. DNA was isolated and amplified by PCR and subjected to agarose gel electrophoresis. Gene frequencies were calculated and were used to calculate average heterozygosity. All the four loci are polymorphic in nature and showed high levels of heterozygosity. The average heterozygosity is recorded as 0.4945 to 0.4892. Genetic distance analysis of the present data with the available data of two Andhra Pradesh tribal populations revealed that Yadavas are closer to Konda Reddis when compared to Koya Doras.