

Genetic Characterization of Indigenous Goats of Sub-saharan Africa Using Microsatellite DNA Markers*

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ABSTRACT : Genetic diversity of sub-Saharan African goats was assessed using 19 microsatellite markers. Breeds were sampled from eastern Africa (Maasai, Kigezi, Mubende, North West Highland, Arsi-Bale), southern Africa (Ndebele, Pafuri) and West Africa (West African Dwarf, Maure, Djallonke). European breeds (Grisons Striped, Toggenburg), Asian breeds (Mongolian Cashmere, Bandipur) and a Middle East breed (Arab) were also included. The mean number of alleles per locus and average gene diversity ranged from 5.26±0.464 (Djallonke) to 7.05±0.516 (Mubende) and from 0.542±0.036 (Pafuri) to 0.672±0.031 (Ndebele), respectively. The between breeds variation evaluated using G_{ST} and θ were found to account for 14.6% (θ) and 15.7% (G_{ST}) of the total genetic variation. The D_{xy} measure of genetic distance between pairs of breeds indicated that the largest genetic distance was between Pafuri and Djallonke while the lowest genetic distance was between Arsi-Bale and North West Highland. A neighbour-joining tree of breed relationships revealed that the breeds were grouped according to their geographic origins. Principal component analysis supported the grouping of the breeds according to their geographic origins. It was concluded that the relationships of sub-Saharan African goat breeds were according to their geographical locations implying that the goats of eastern Africa, West Africa and southern Africa are genetically distinct. Within each sub-region, goat populations could be differentiated according to morphological characteristics. (*Asian-Aust. J. Anim. Sci.* 2004, Vol 17, No. 4: 445-452)

Key Words : African Goats, Within- and Between-breed Genetic Variation, Relationships Among Breeds

INTRODUCTION

The goats of sub-Saharan Africa can be divided into five major types (Mason and Maule, 1960; Rege et al., 1996): (i) The Long lop-eared goats of North-east Africa which includes the Sudanese Nubian and Sudanese Desert found mainly in northern Sudan, the Shukria of Eritrea and Ethiopia and the Benadir of Somalia; (ii) the Small short-eared goats which extend from Ethiopia and Somalia through East Africa up to Zimbabwe and some parts of South Africa; (iii) the Dwarf short-eared goats which are found along the coast of West and Central Africa; (iv) the

Sahelian and Intermediate goats found in the Savannah belt and (v) the Southern lop-eared goats found in southern Africa. In between these major types there are many intermediate and less distinguishable subtypes. The genetic relationships among the major types as well as the subtypes is unclear because their history (how they were established and if later on intercrossing occurred between the types) is not well documented. The considerable variation observed among the goat populations, in terms of size and coat colours has led to some inconsistencies in the classification of the various local populations into breeds/strains. Often the subtypes are named after locations or communities keeping them (Rege et al., 1996), for instances, goats kept by Somali and Maasai people of East Africa are called Somali and Maasai goats, respectively. This naming system may not reflect the genetic differentiation of the breeds. However, given the wide geographic area and the diversified climate and topography of the region, local populations in different places might have been isolated over a long period while also being subjected to varying selection pressures and genetic drift, thus have become genetically divergent. However, the extent to which various populations are different from each other is not clear.

In recent years, a range of innovations in molecular genetics have been developed for the study of genetic variation and evolution of populations using DNA marker genotype information. One of the recent DNA markers are microsatellites. The analysis of microsatellites is currently

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