



---

**EVALUATION OF GENETIC DIVERSITY WITHIN AND BETWEEN NATIVE  
AND KHAKI CAMPBELL DUCK BREEDS USING RAPD MARKERS**

**Abbas Ghobadi, Hadi Sayyah Zadeh and Ghodrat Allah Rahimi**

Department of Animal Science, Faculty of Agriculture, Mazandaran University, Sari, Iran

A total of 100 genomic DNAs were isolated from two breeds of duck: Native and Khaki Campbell, through a modified salting out procedure. The samples were used in a Polymerase Chain Reaction (PCR) with 27 RAPD Markers. Amplified PCR-products with the markers were separated on a 2% agarose gel and stained with ethidium bromide. To evaluate the bands, polymorphic and monomorphic bands were described. The RAPD analysis data from 5 primers were utilized in estimating genetic diversity and genetic distance. The genetic distance between the two populations was 36/06. The genetic diversity within Native and Khaki Campbell breeds was 51/08 and 66/01, respectively.

**Keywords:** duck, breeds, RAPD, genetic diversity