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DNA microsatellite analysis of genetic diversity among Chinese indigenous laying-type ducks (*Anas platyrhynchos*)

Y. Su, G.H. Chen

<https://doi.org/10.17221/1675-CJAS>

Citation: Su Y., Chen G.H. (2009): DNA microsatellite analysis of genetic diversity among Chinese indigenous laying-type ducks (*Anas platyrhynchos*). Czech J. Anim. Sci., 54: 128-135.

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The genetic polymorphisms of 17 microsatellites were investigated in four indigenous laying-type duck breeds in China. The average number of alleles (N_a) and average rates of homozygotes of each breed were counted. Accordingly, allele frequencies of the 17 microsatellites, polymorphism information content (PI_C), mean heterozygosity (H) and genetic distances (D_s) were also calculated. Moreover, dendrograms using UPGMA and the neighbour-joining method were produced. The four breeds have a high average PI_C (0.643) and H (0.682). D_s are between 0.514 and 0.662, the gene differentiation among the four breeds is 14.4%.

Keywords:

duck; PCR; microsatellite; genetic diversity; genetic polymorphism

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2017: **0.955**5-Year Impact Factor: **1.06**
Q3 (33/60) – Agriculture, L
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Contact

Ing. Gabriela Vladyková
Executive Editor (Editoria
publication)

e-mail: cjas@gazv.cz

Ing. Kateřina Kheilová
Executive Editor (submis
editorial system)

e-mail: cjas@af.czu.cz**Address**

Czech Journal of Animal
Czech Academy of Agric
Sciences
Slezská 7
120 00 Praha 2
Czech Republic