

Identification of Quantitative Trait Loci (QTL) for Production Traits in Japanese Quail (*Coturnix japonica*)

Coturnix japonica

In the current study, growth performance and nonlinear growth curve functions, QTLs for growth- and egg-related traits of large- and normal-sized (LS vs. NS) Japanese quail were investigated. Production traits (meat/egg) are the most important economic traits in poultry breeding industry. Both growth- and egg-related traits are complex traits influenced by genetic and environmental factors and their interactions. In QTL analysis, the chromosomal position of useful loci is identified based on DNA markers including single nucleotide polymorphisms (SNPs). Restriction-site associated DNA sequencing (RAD-seq) was used to identify, verify, and score more SNPs simultaneously. Identifying and mapping of genetic markers underlying QTLs can improve production traits in Japanese quail, and finally can improve the selection response in poultry breeding programs via marker-assisted selection.

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on Wednesday, July 29th, 2020
from 3:00 PM to 4:00 PM

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