

鹌鹑羽色遗传的研究及应用 The Study and Use on Genetics of Plumage Color in Quail

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摘要 鹌鹑的羽色主要有野生型、白色型、深色型、褐色型、黑白镶嵌型、褐白镶嵌型、黄色型、红色型和紫色型等, 目前已发现大约有26个基因座与鹌鹑的羽色有关。这些基因座多数位于常染色体上, 有5个基因座位于Z染色体上, 有4个基因座存在有复等位基因系列。多数基因座的等位基因呈显隐性关系, 少数表现为等显性或不完全显性。有5个基因座的显性羽色突变基因如黄羽、银色羽、白羽、孵化黑羽和亮绒羽在纯合状态下具有致死或半致死效应。羽色标记在鹌鹑育种和生产以及科学研究中已发挥了重要作用, 作者就今后加强鹌鹑羽色标记研究提出了一些建议。

Abstract:The main plumage traits including wild-type, white, dark black, brown, dark-white inlays, brown-white inlays, yellow, red and purple have been reported, which are related to 26 loci. The majority of the loci are at the autosome and five loci at the Z chromosome. Four loci have multiple allelic series. The dominance or recessive relation are shown between allele of the most loci and few of them show allelic equivalence or incompletely dominance. There are five dominant plumage color mutations, such as yellow, silver, white, black at hatch and light down are lethal or semi-lethal in the homozygous state. These plumage color marker have played an important part in the breeding and production of quails and research fields. Some proposals are put forward in terms of strengthening the study of plumage color marks of quails.

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