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Homozygous Inheritance in a Paint Stallion

Discovering a gene in a horse might seem hard to do but not for me. The purpose of my research was to understand how the Tobiano Gene was inherited in a paint horse and specifically how it was passed to the foals of my family Stallion, Barjo Radical RebLe. Procedure of my project were as followed; 1. Study how Tobiano Gene is inherited in the paint horse. 2. Analyze breeding reports and transfer data to charts. 3. Calculate percentages of the Tobiano offspring produced. 4. Compare to expected outcomes. The conclusion of my research showed, 24% Tobiano and according to the Punnett squares; Barjo Radical RebLe produced 50% Tobianos when crossed with the mares that don't carry the Tobiano Gene. These results to some of the Tobiano foals may have received their gene from their dam and not their sire. This would account for a higher percentage of Tobiano foals being produced. The research was to look up but the genes ended up to be dominated.