

## CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
K. Colton Pinson	
	31707
Project Title	
What's In Your Genes? White Hair? Red Eyes? I Thighs?	Big Hips? Thunder
Objectives/Goals Abstract	
The objective of this project is to find out when breeding rabbits which par	ent has stronger traits that are
passed down to the offsrping, the sire or the dam?	San transfer areas
Methods/Materials	$\setminus$ $\bigcirc$
I bred 26 litters of Netherland Dwarf rabbits to compare the litter against	he size and dam for
variety/color, body type, and head shape. I bred two litters of New Zeoland	Whites which excluded the
color gene and allowed me to only compare the litters against the sire and loin.	dam for depth and width of
Results	
In the Netherland Dwarf litters the dam passed down the variety/color cond	es, where the sire showed to
pass on more of the body type and head shape to the of spring. In the New	Zealand litters my first
experiement showed to be equal as the sire and dam we're equally makehed	in size, depth and loin, giving
me five of seven kits of equal in size. The second little the sire passed dow	n more traits to four of the
seven kits than the dam. Conclusions/Discussion	
My conclusion is that the sire and dam did have equal amount of traits pass	sed down to the offspring. I
My conclusion is that the sire and dam did have equal amount of traits pass believe that there are many factors that figure into the experiments such as	the size of the litters.
l Netherland Dwarts have very small litters New Zealand Vive larger litter	s. Lalso believe that traits are
not always passed down generation to generation because of the recessive during my experiments, where particular features skipped a generation. I the heritability issue comes into play and how certain genes are inherited in on	gene. I saw this in one litter
during my experiments, where particular reatures skipped a generation. I the	link this is where the
from one litter to another.	le sidning but not another, and
nom one facer to unotater.	
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Summary Statement	
Genetics and heritability in rabbits.	
Help Received	