Select for more black fur

Select against black fur

“The plus race shows no white except on the underside and sometimes along the flank.”

“The minus race shows no black except a short hood lying anterior to the shoulders…”

Cross both strains to a wild-type strain and recover hooded phenotype in F2 generation

W.E. Castle
Piebald Rats and Selection, A Correction
American Naturalist, 1919
Loss of sav/hpo/wts/mob increases cell division
Loss of sav/hpo/wts/mob decreases apoptosis
merlin and expanded function redundantly to control proliferation
Overexpression of expanded or hippo
Hyperactivate Hpo signaling pathway
Hippo acts downstream of expanded/merlin
Hippo acts downstream of expanded/merlin
Hippo acts upstream of warts