

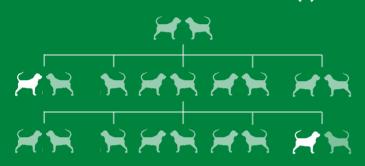


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Inbreeding & Selection - The balancing act of Inbreeding

How do we define Inbreeding?

Inbreeding is the mating of related individuals, and the sharing of genetic material from common ancestor(s).



How do we define selection?

Selection is the deliberate breeding of dogs that have been **chosen to produce offspring** based on **particular desired characteristics** and **genetic traits**.



Inbreeding

Manage inbreeding to ensure **genetic diversity** in a breed

Vs.

Selection

Selection for improvement/
maintenance of
important traits,
e.g. health or temperament

You might not be surprised to hear, that dogs that are related tend to look like each other...



Inbreeding can reduce genetic diversity of the breed

Decrease in effective population sizes



Consistent
inbreeding
increases the
rate of inbreeding
in the whole
breed

What are the effects of inbreeding?

Impacts of inbreeding include a reduction in litter size and fertility, and also health in general



