



Kan je genetische heterogeniteit in het DNA ook meten?

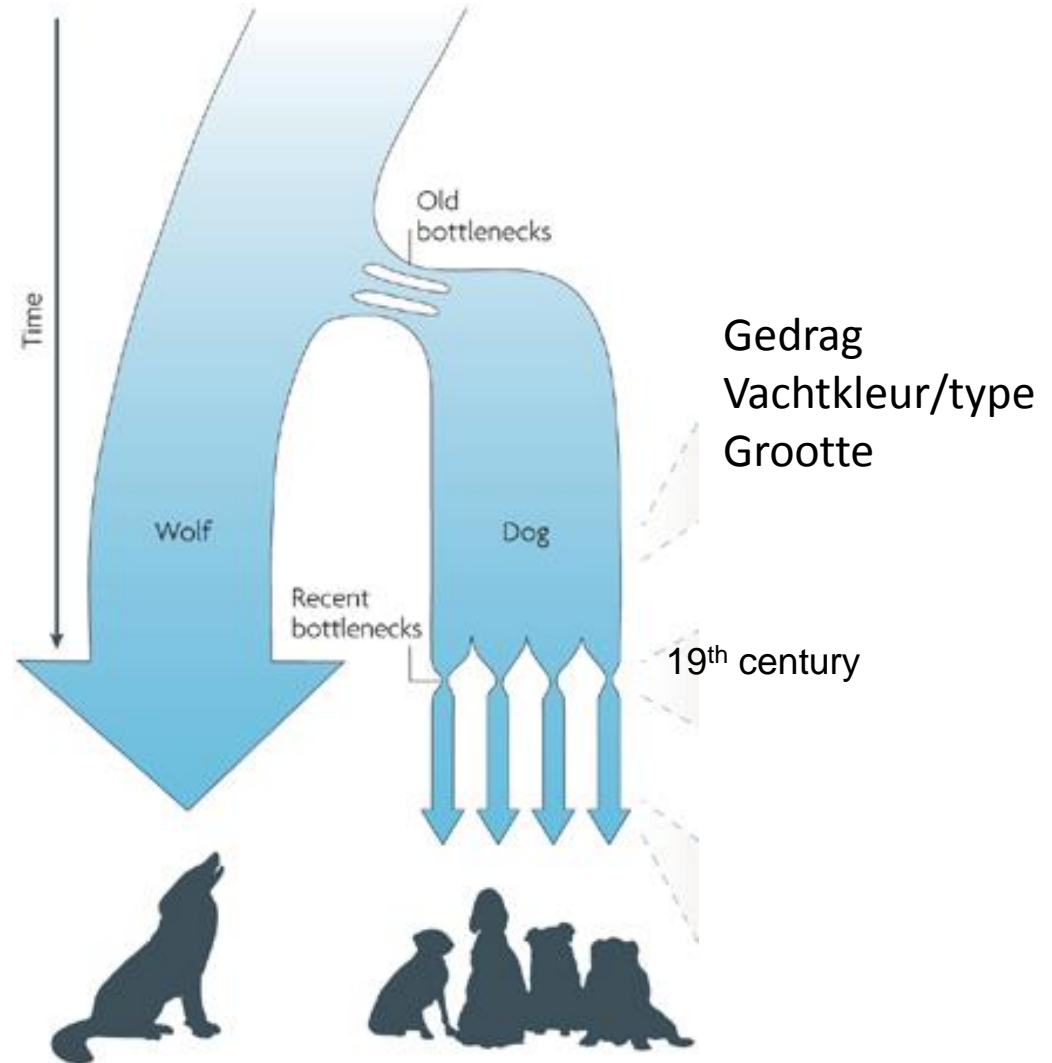


Frank van Steenbeek

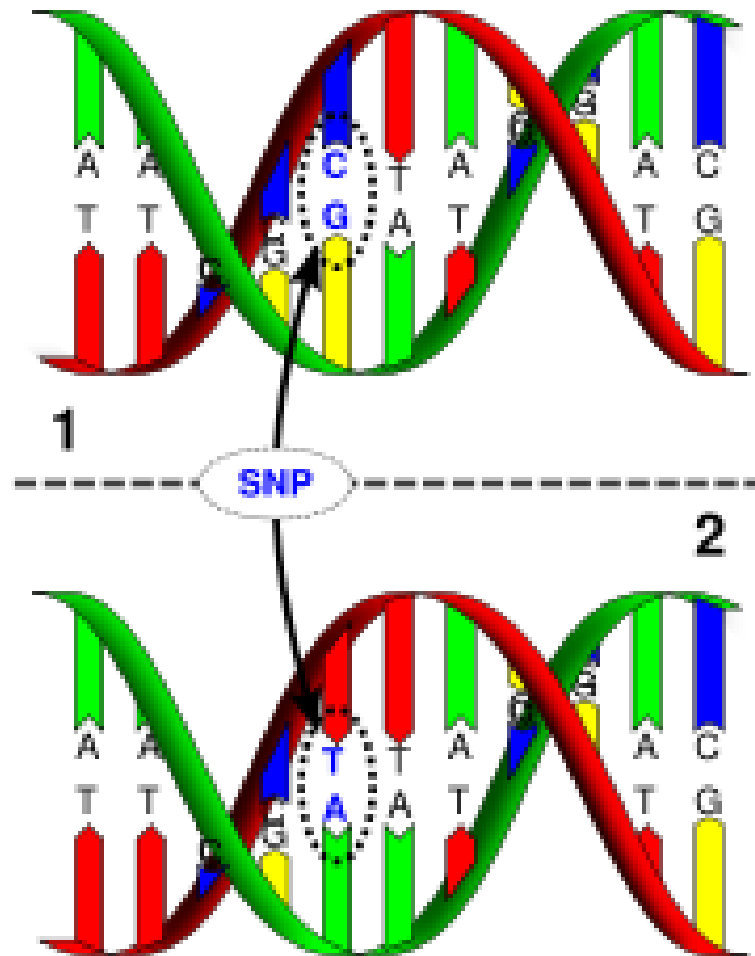
Assistant Professor

DNA

Variatie in de hond

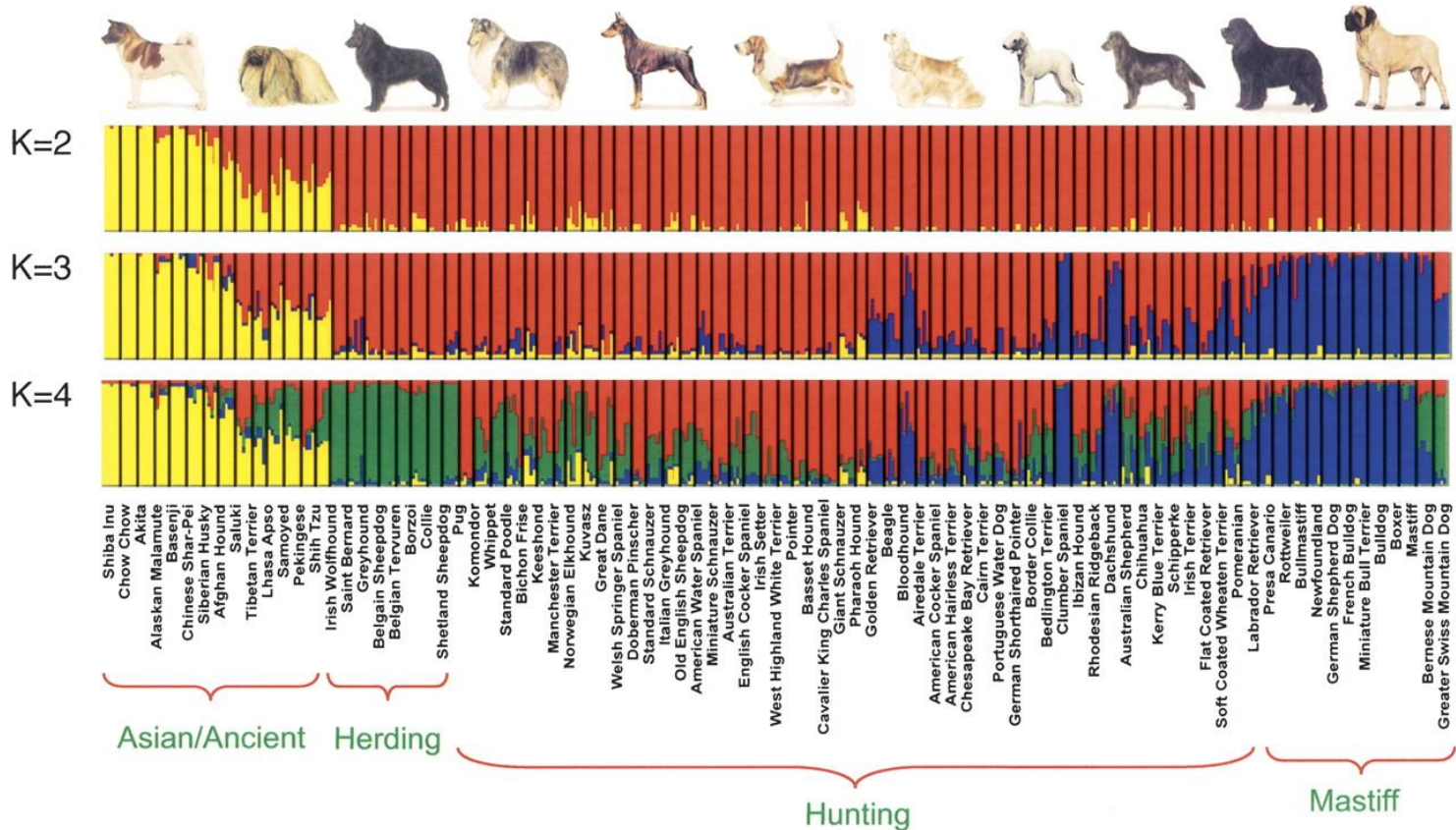


DNA variations



DNA variaties

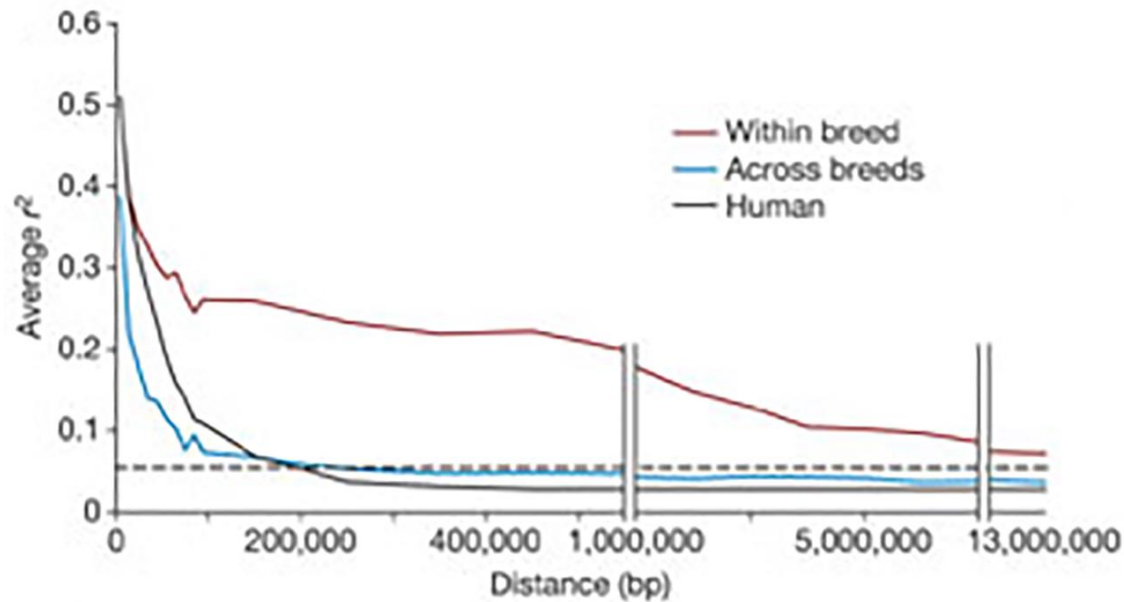
Rasverschillen en overeenkomsten



The canine genome. Ostrander EA, Wayne RK. 2005 Genome Research

DNA variaties

Rasverschillen en overeenkomsten

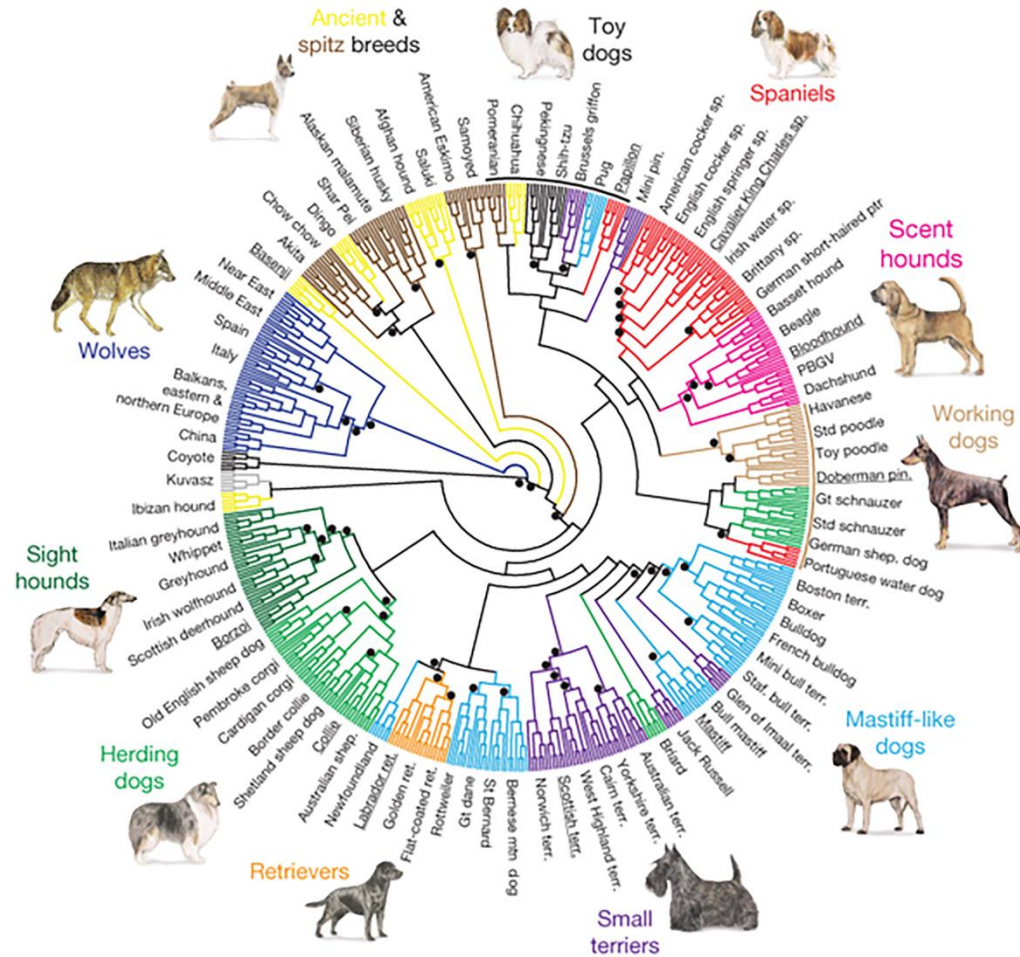


Genome sequence, comparative analysis and haplotype structure of the domestic dog.
Lindblad-Toh K 2005 Nature



DNA varieties

Rasverschillen en overeenkomsten



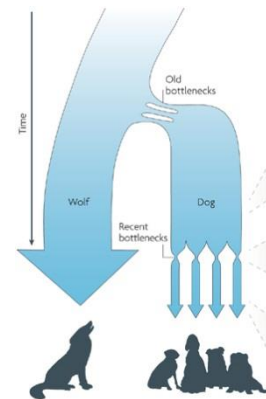
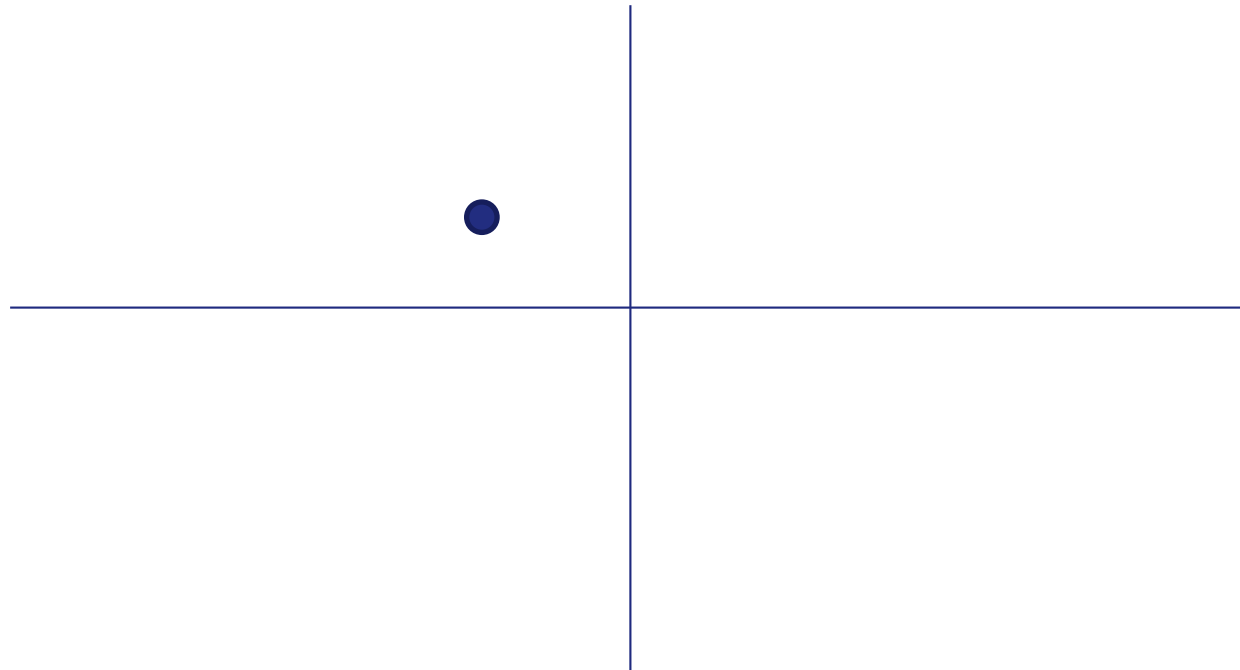
Genome-wide SNP and haplotype analyses reveal a rich history underlying dog domestication, vonHoldt BM 2010 Nature



Gebruik van verschillen

IBS: identity by state

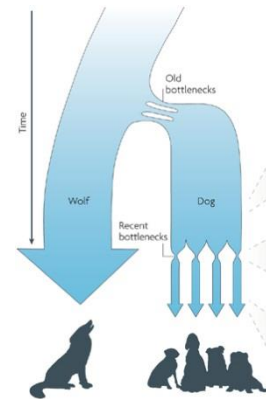
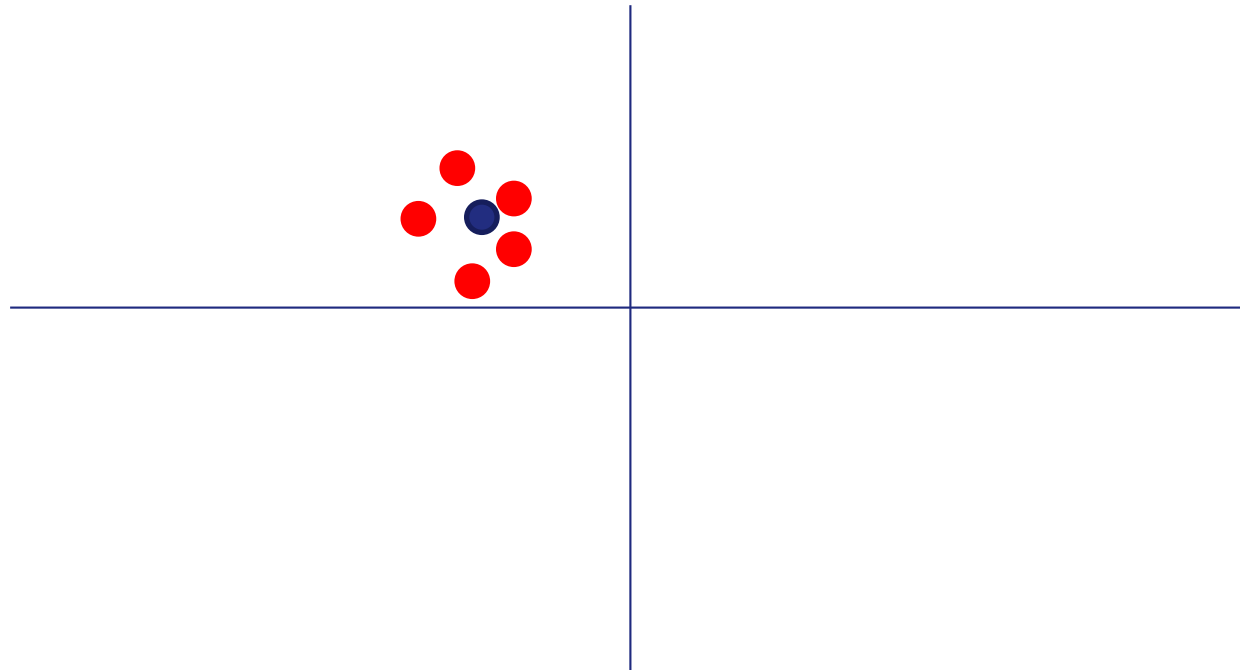
IBD: identity by descent



Gebruik van verschillen

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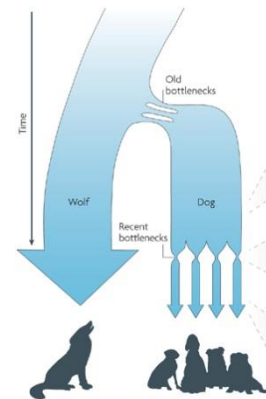
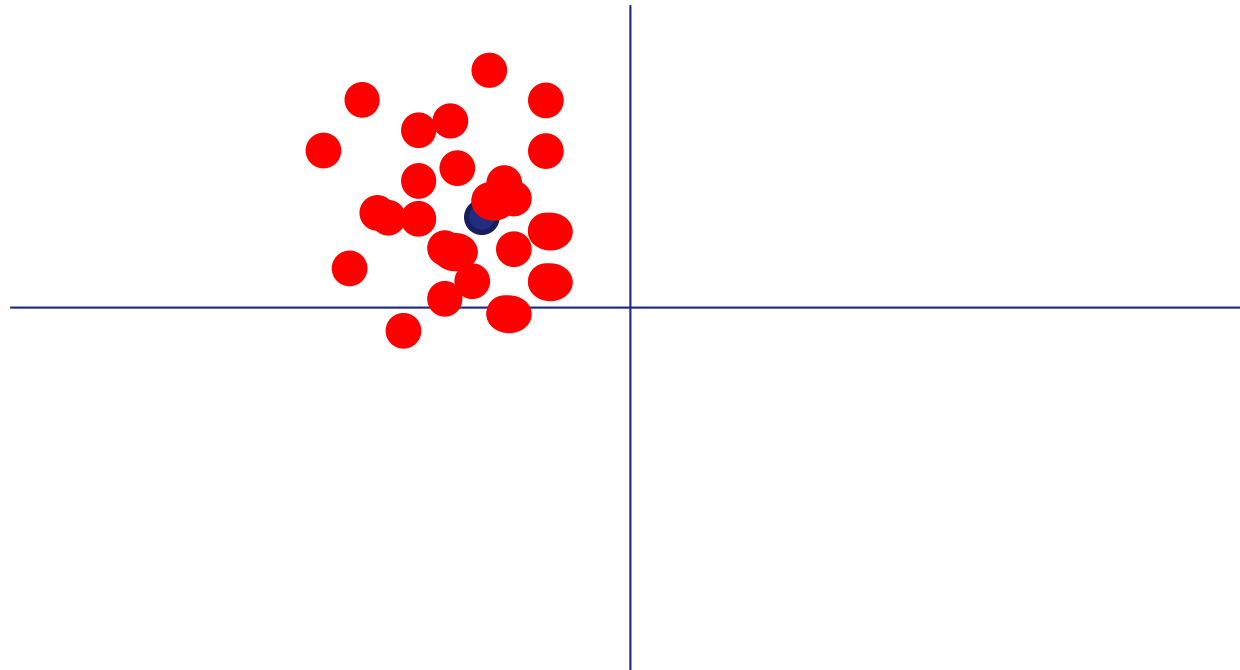
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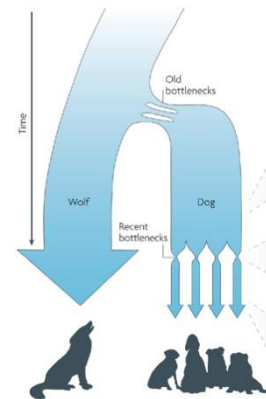
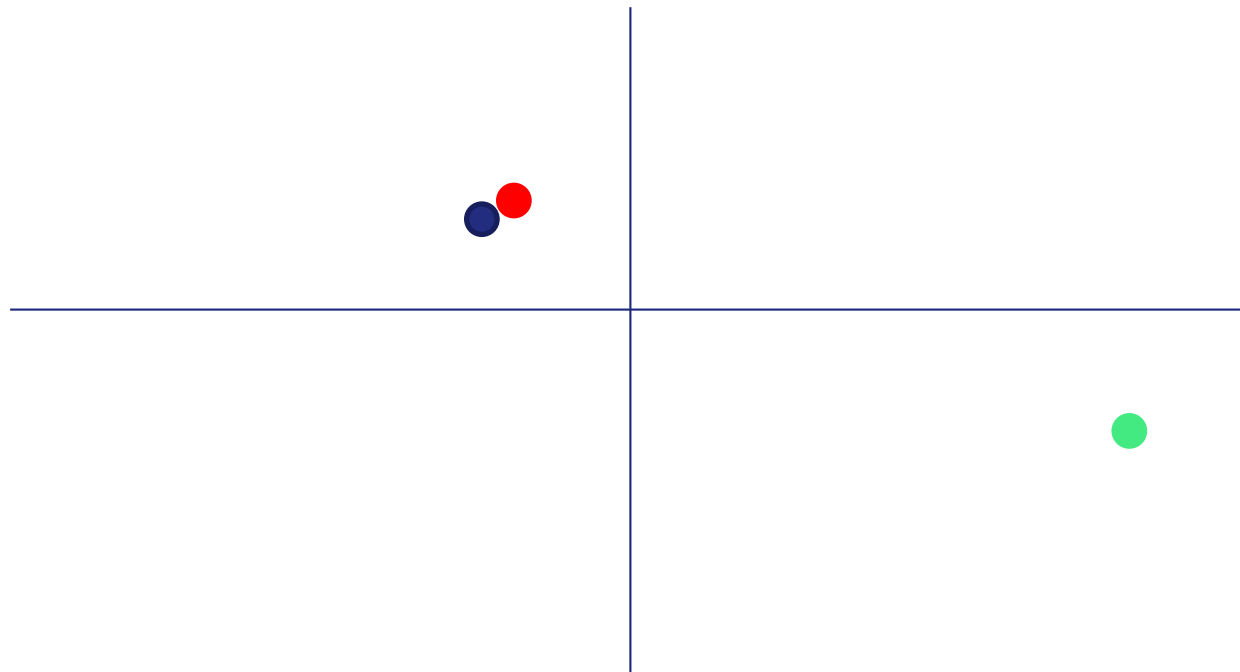
IBD: identity by descent



Gebruik van verschillen

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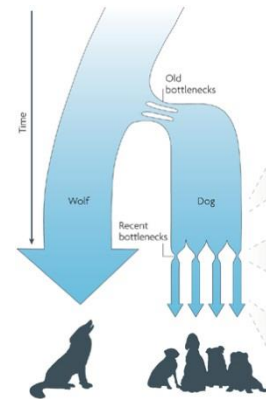
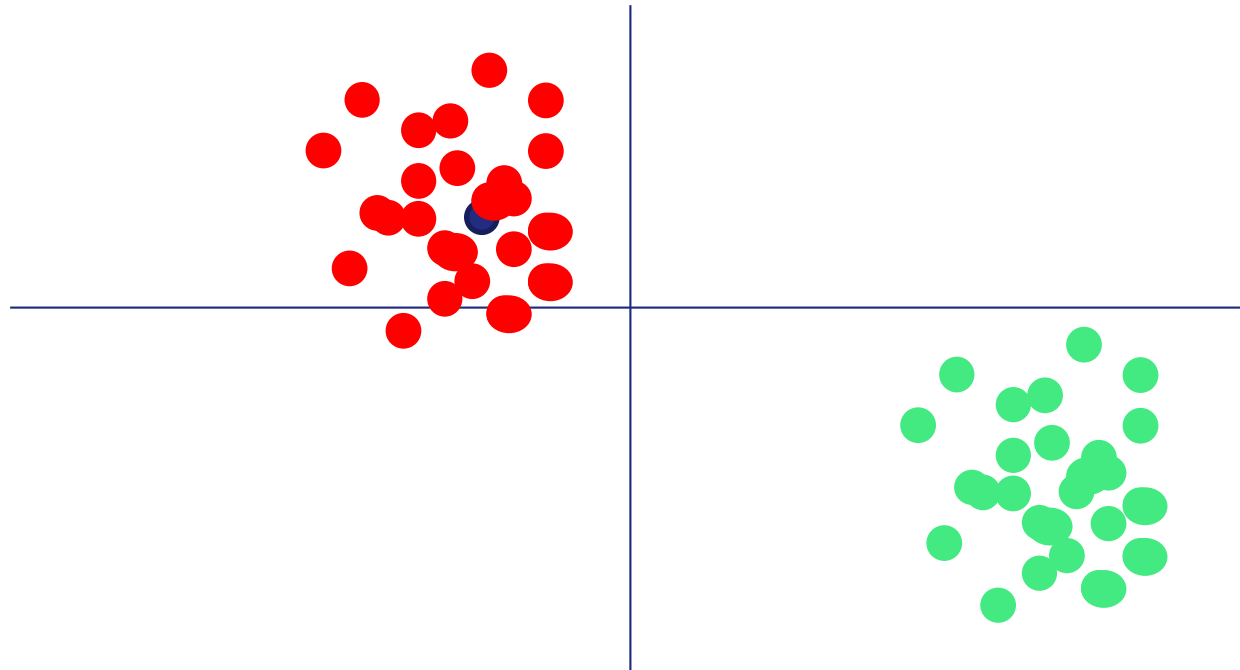
IBD: identity by descent



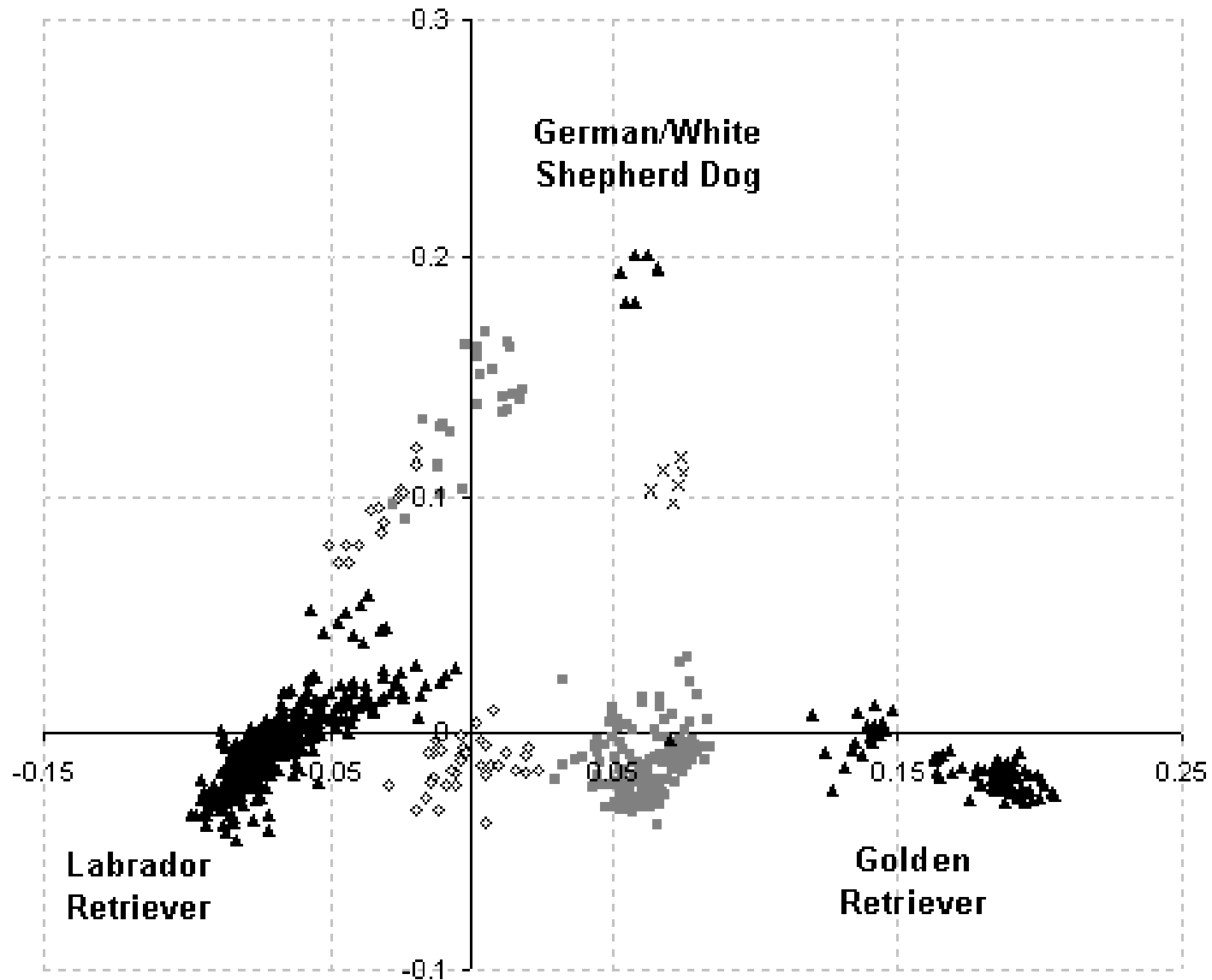
Gebruik van verschillen

IBS: identity by state

IBD: identity by descent

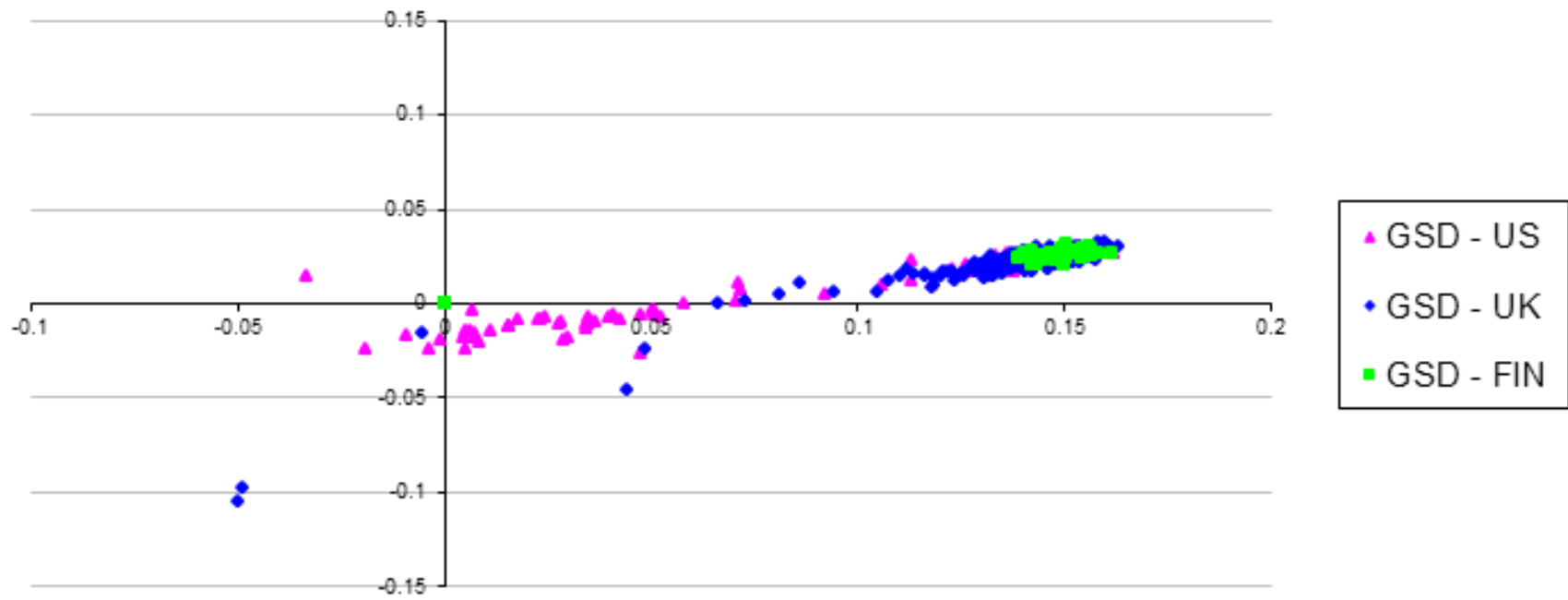


Rasverschillen

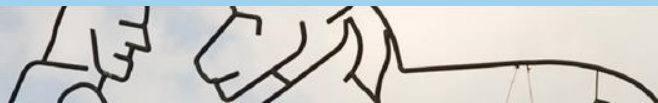


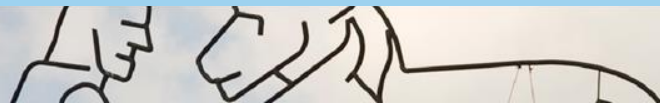
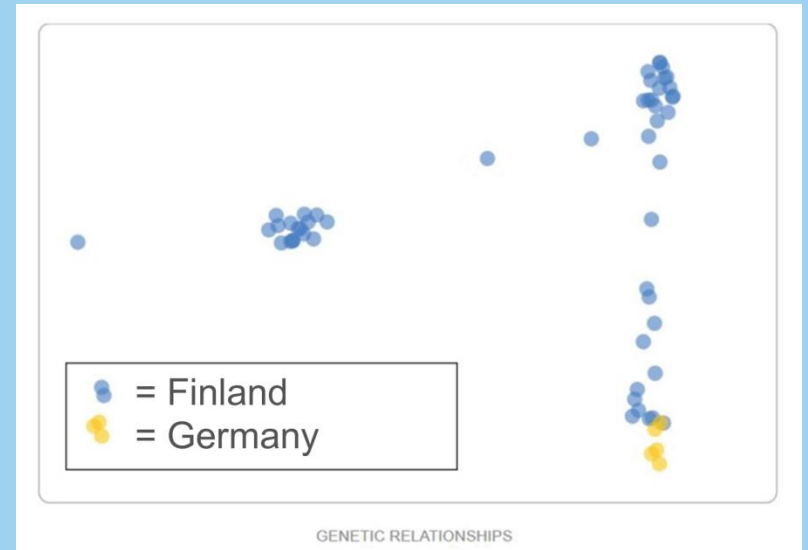
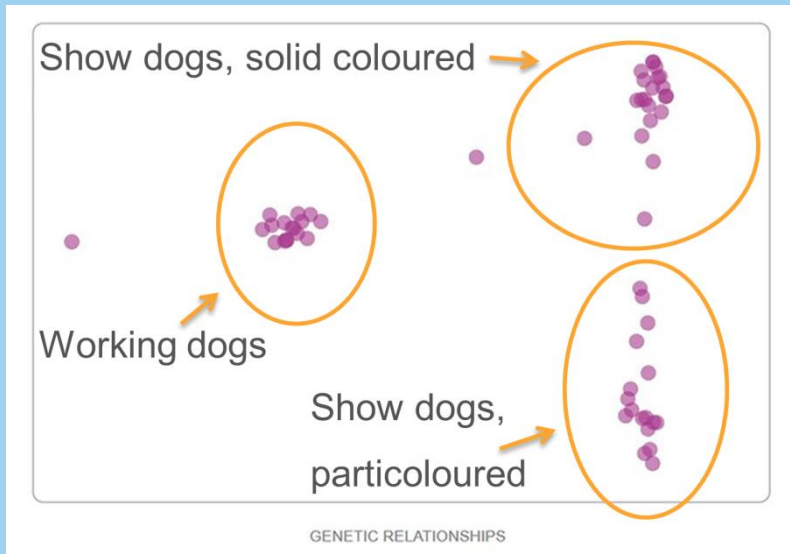
Rasverschillen

German Shepherd Dog



GENOSCOOPER
LABORATORIES

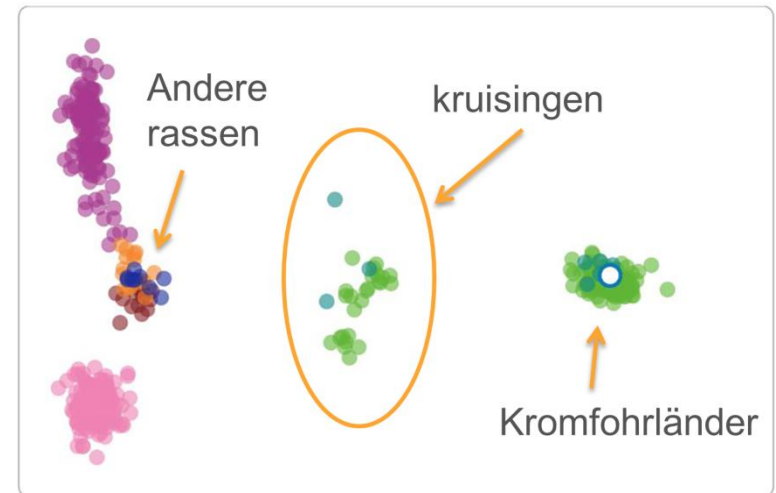




Kromfohländer



Ras	Aantal testen	Mediaan heterozygositeit
Parson Russel Terrier	> 100	34.40%
Finnish Lapphund	> 100	31.80%
Lagotto Romagnolo	> 100	29.30%
Golden Retriever	> 100	27.80%
Kromfohländer	> 100	21.20%



Andere rassen: Poodle (Medium-sized), Parson Russell Terrier and Tibetan Terrier



Discussie

