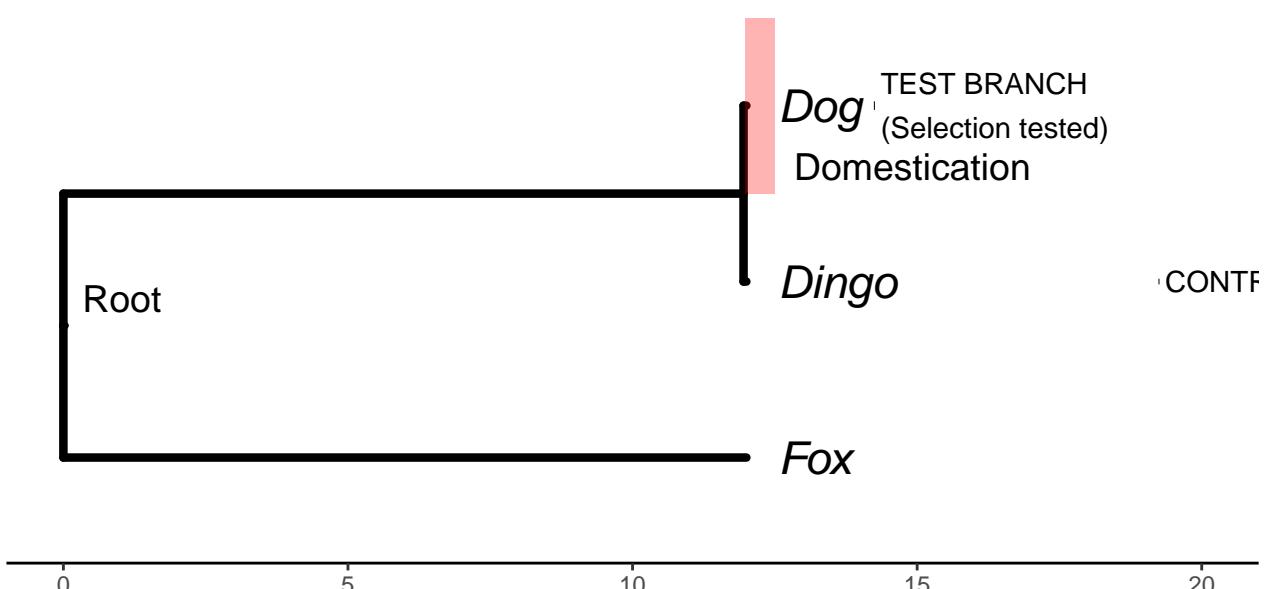


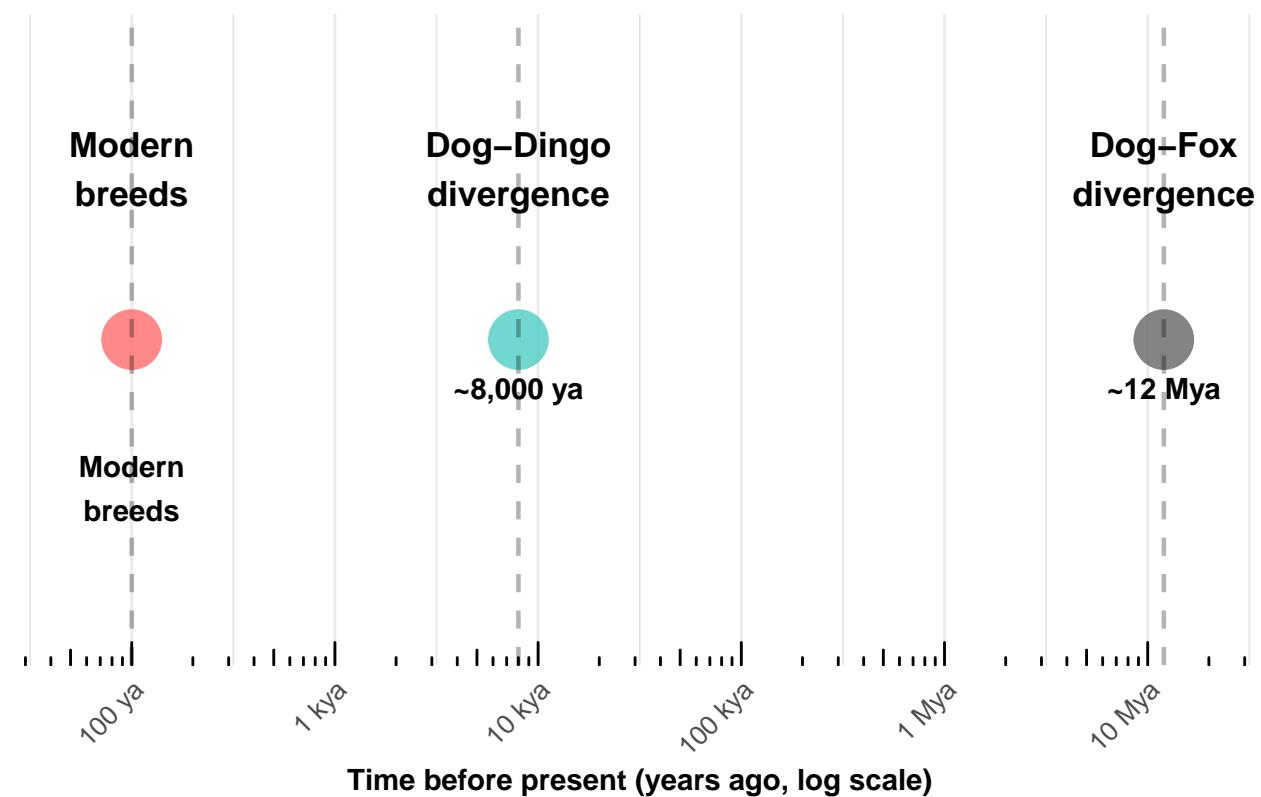
Figure 1: Study Design and Three-Species Phylogenetic Approach

Isolating domestication-specific selection in modern dog breeds

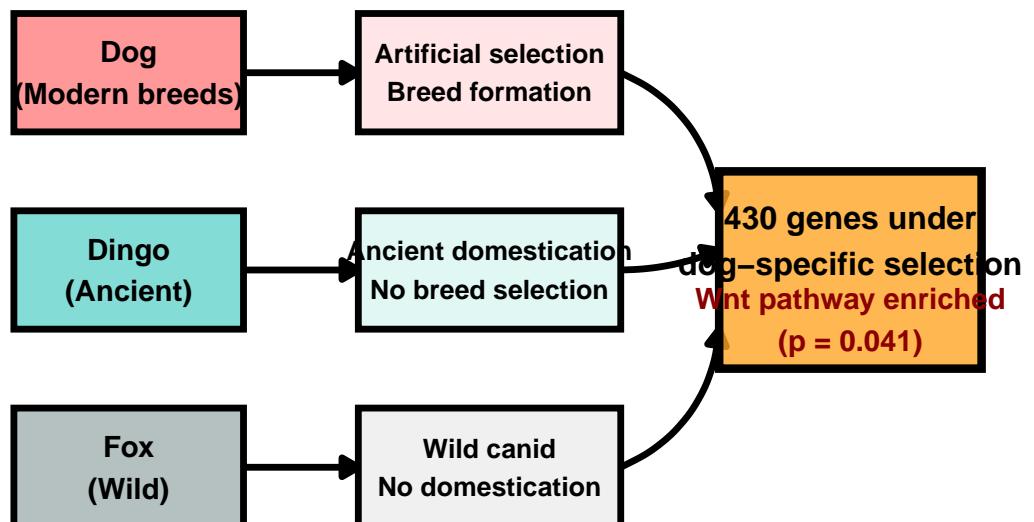
Three-Species Phylogenetic Design



Evolutionary Timeline (Log Scale)



Study Design Overview



Key Results Summary

Genes analyzed: 17,046
Dog-specific selected: 430 (2.5%)
Annotation success: 337 (78.4%)
Wnt pathway enrichment: $p = 0.041$
Tier 1 validation genes: 6 genes

(A) Phylogenetic tree showing three-species design. Dog branch (red) is the test branch where selection is tested.

(B) Evolutionary timeline from dog–fox divergence (~12 Mya) to present.

(C) Study design schematic showing species, selective pressures, and key findings.

(D) Summary of key statistical results.