

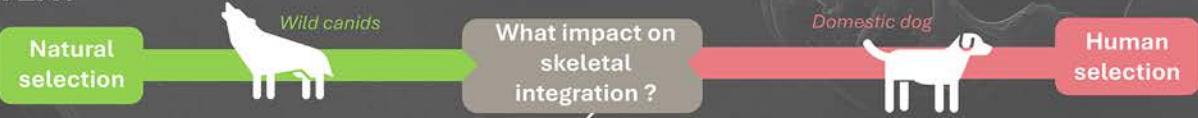
Impact of human selection on canid skeletal integration

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CONTEXT



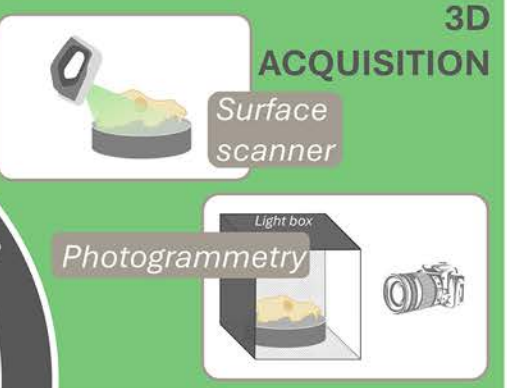
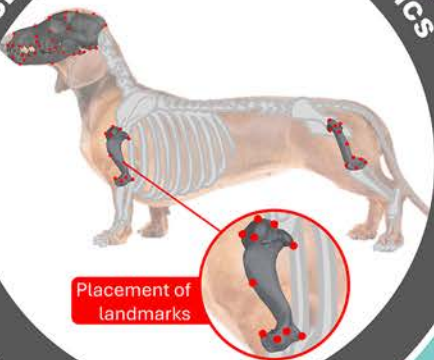
SAMPLE



MORPHOLOGICAL VARIABILITY

- Variability of wild canids is lower to that of domestic dogs (Drake and Kligenberg 2010)
- Groups of **toy dogs** and **mastiffs** stand out regarding **cranial shapes**
- Groups of **terriers** and **dachshunds** stand out regarding **postcranial shapes**

3D Geometric morphometrics

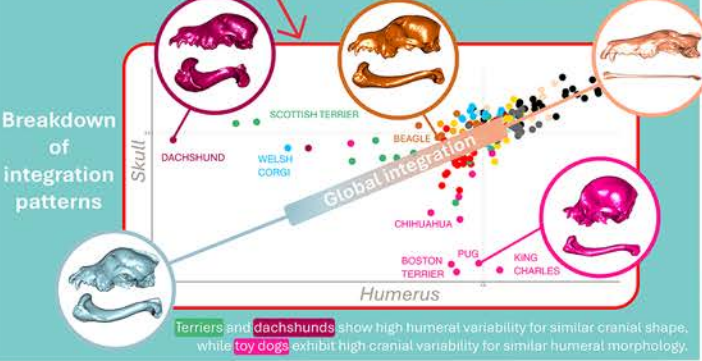
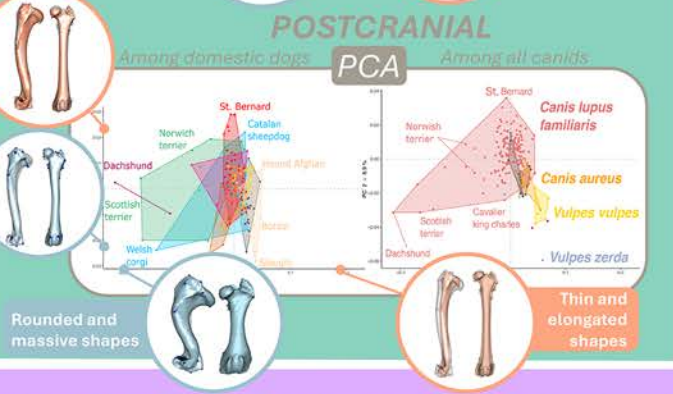
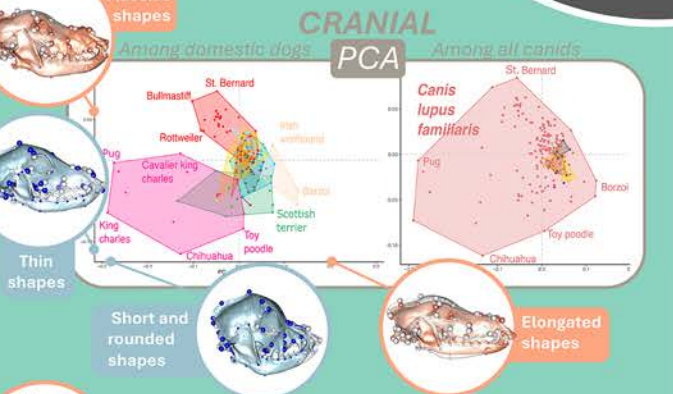


MORPHOLOGICAL INTEGRATION

Wild canids, street dogs and purebred dogs all show high integration between cranial bones (as previously demonstrated by Curth and al. 2017) and between postcranial bones



But purebred dogs show much lower integration between cranial and postcranial bones compared to other groups



CONCLUSION

Artificial selection has altered cranial-postcranial integration, but the scarcity of wolf specimens limits a full assessment of domestication's impact.

LEGEND: Domestic dogs = Street dogs, Sheepdogs, Mastiffs, Terriers, Dachshunds, Primitive dogs, Running hounds, Gundogs, Retrievers, Toy dogs, Greyhounds, Canis lupus familiaris, Canis lupus dingo, Canis lupus, Canis lupaster, Canis aureus, Vulpes vulpes, Vulpes ruspastis, Vulpes zenda, Alopes lagopus, Nyctereutes procyonoides

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