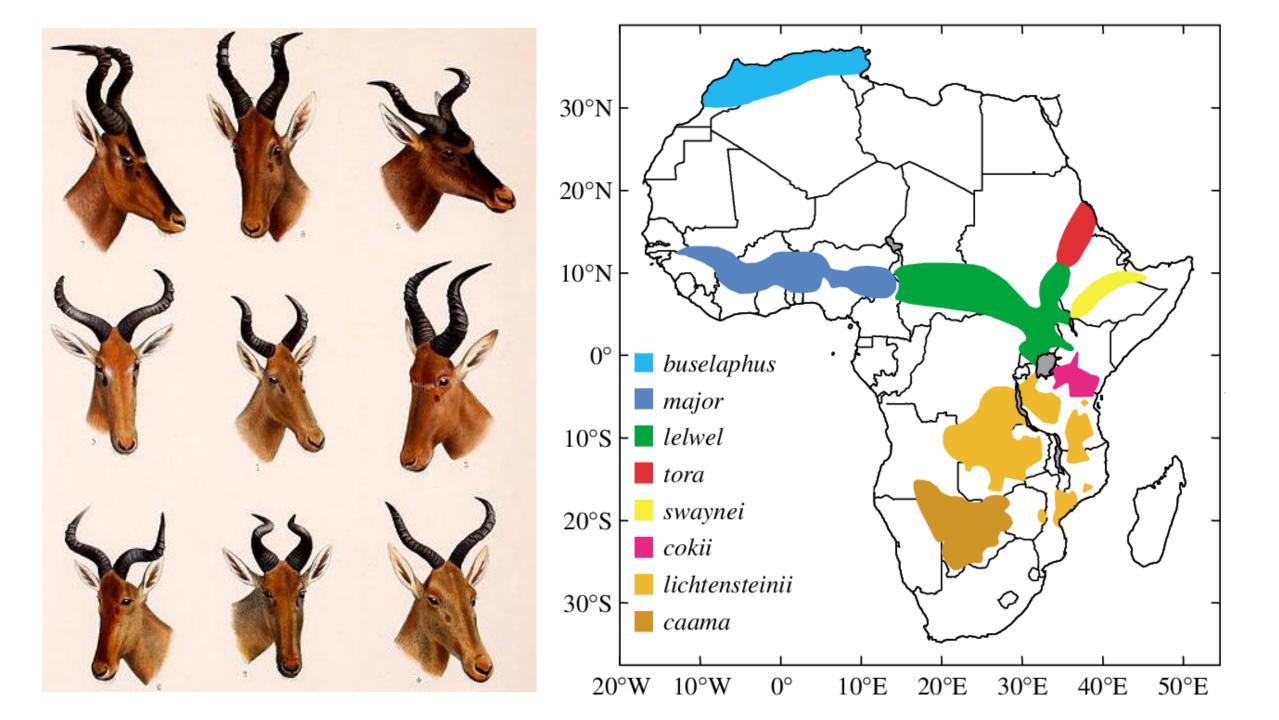
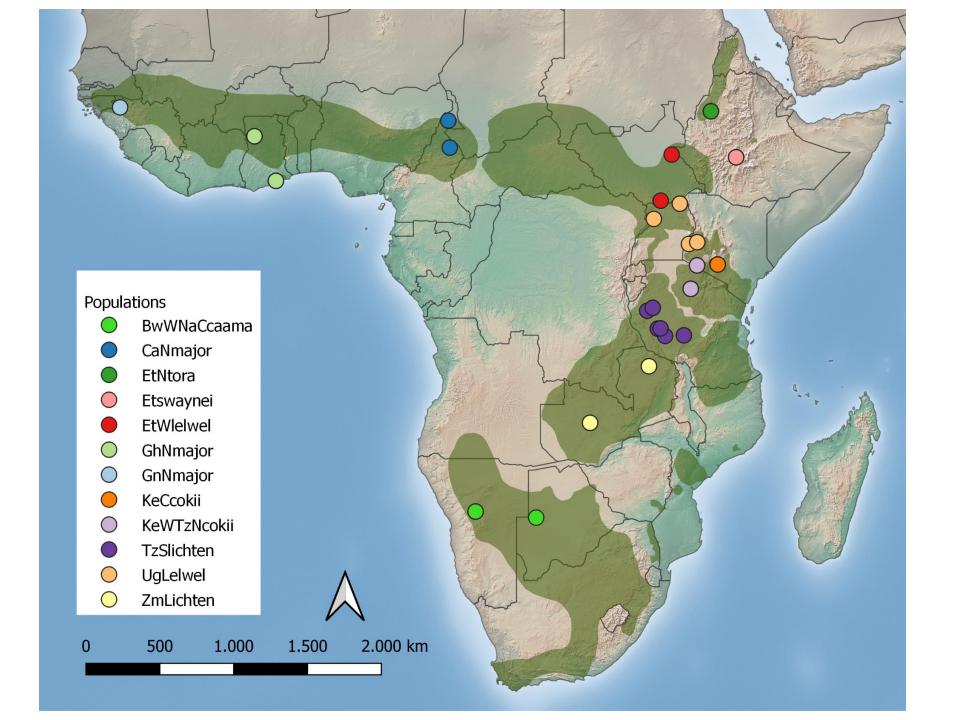
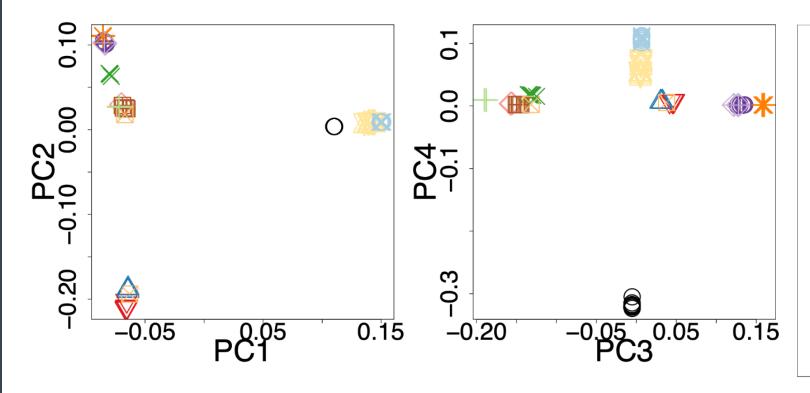
# Population structure in African wildlife

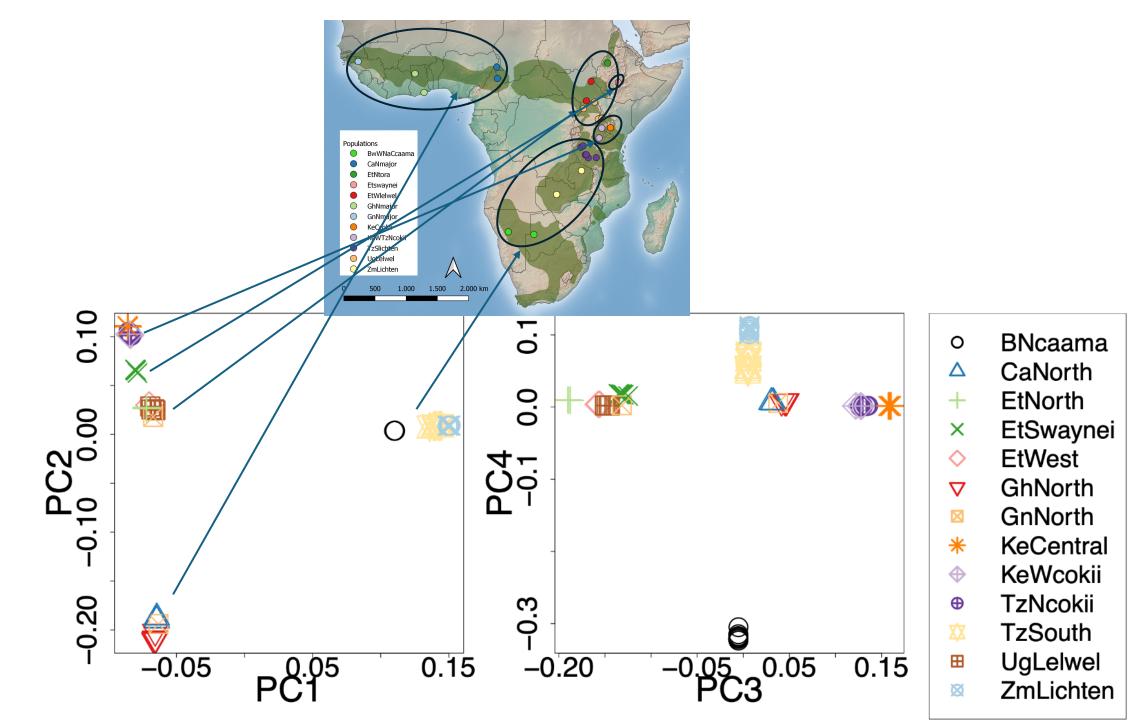
Day 3, Open Institute workshop, Kilifi, August 9<sup>th</sup> 2024 Assoc. Prof. Rasmus Heller, UCPH

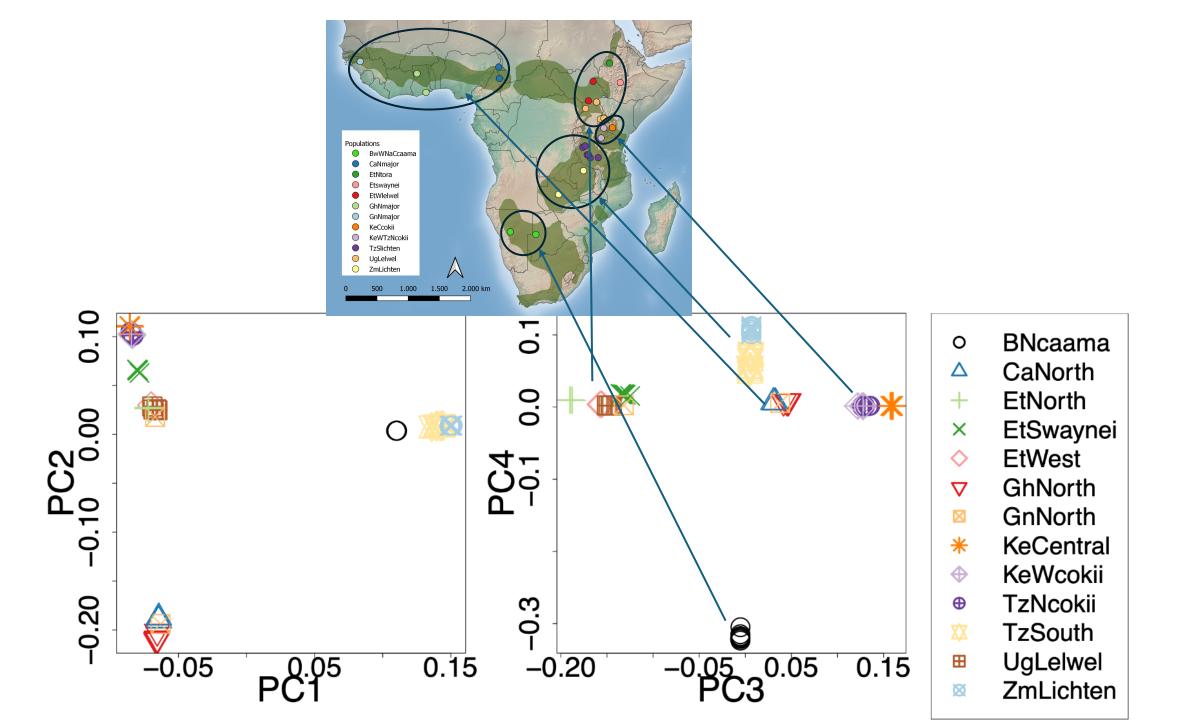






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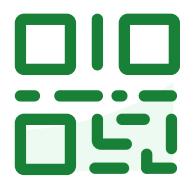




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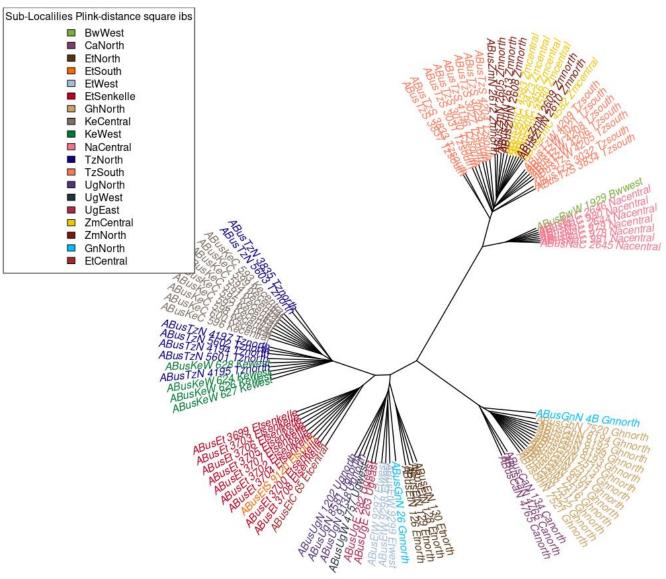
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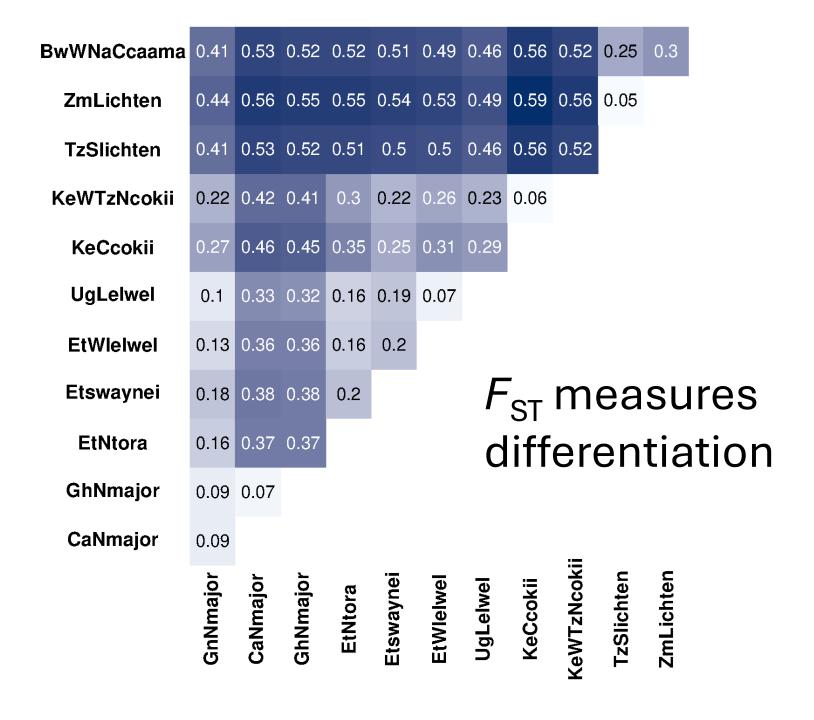




How would you characterize population structure in hartebeests (is it strong/weak, geographically sorted, does it correspond to the described subspecies, etc.).







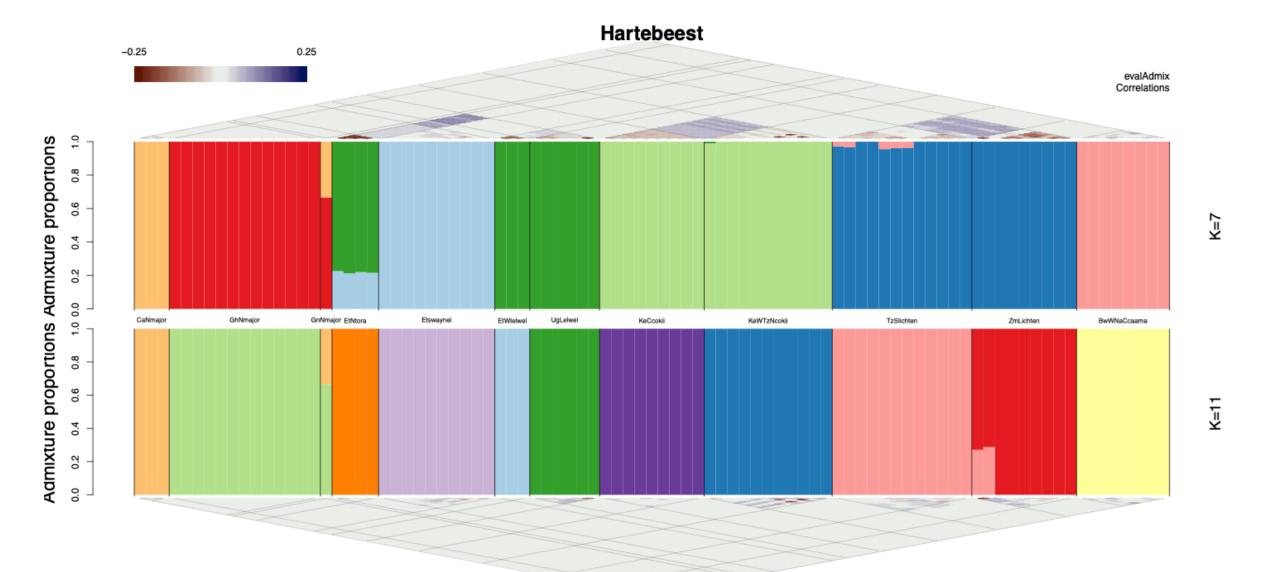
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Can you deduce the deepest evolutionary divergence in hartebeests? What about the second deepest?







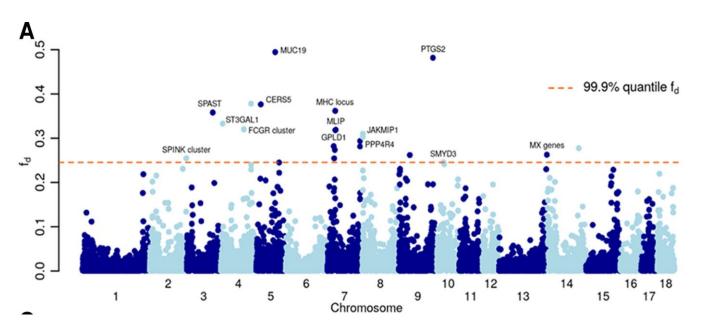
# How many hartebeest populations are there in this data? Are they admixing?

## Examples of admixture in African wildlife

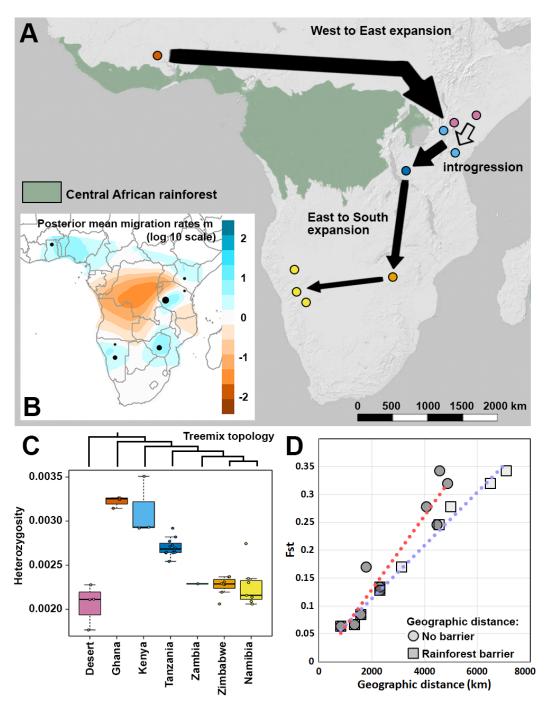
### Case: warthogs



### Case: warthogs



Immune system genes introgressed from desert to common warthog

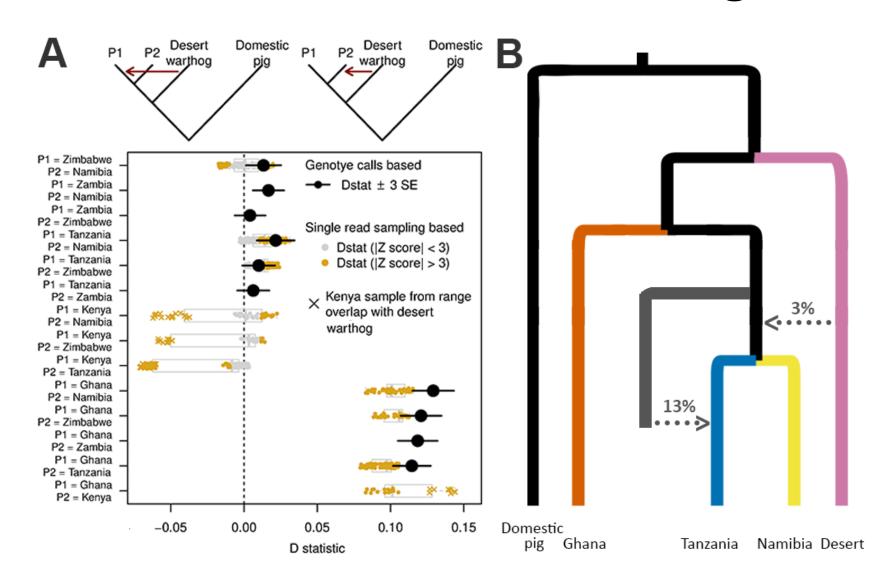






Why would immune genes introgress as common warthogs expanded their range?

#### How do we know there was introgression?



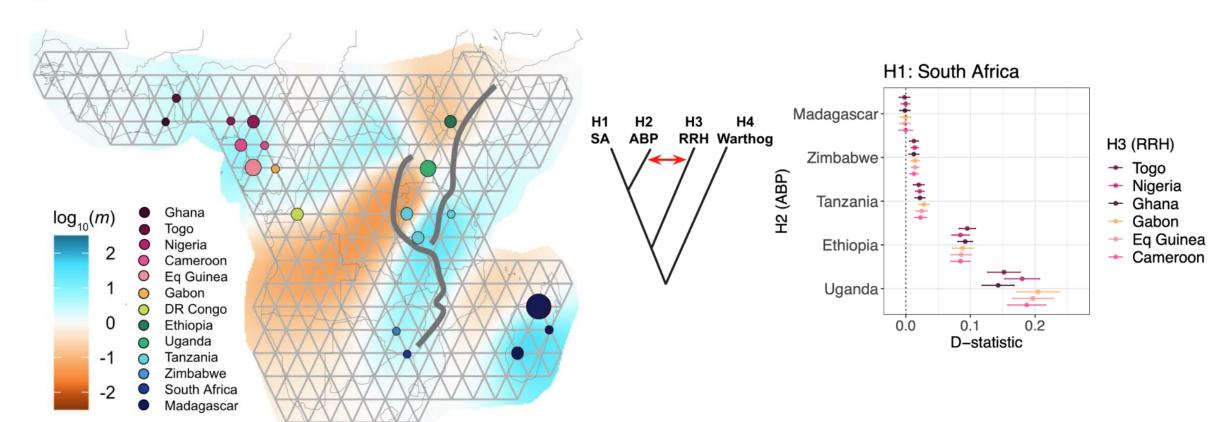


Case: river hogs

"...the two populations are morphologically distinct with no indication of gene flow" Peter Grubb, 1993

### Case: river hogs

#### b







# Are there two species of Potamochoerus, and how does it influence their conservation?

### Case: river hogs

