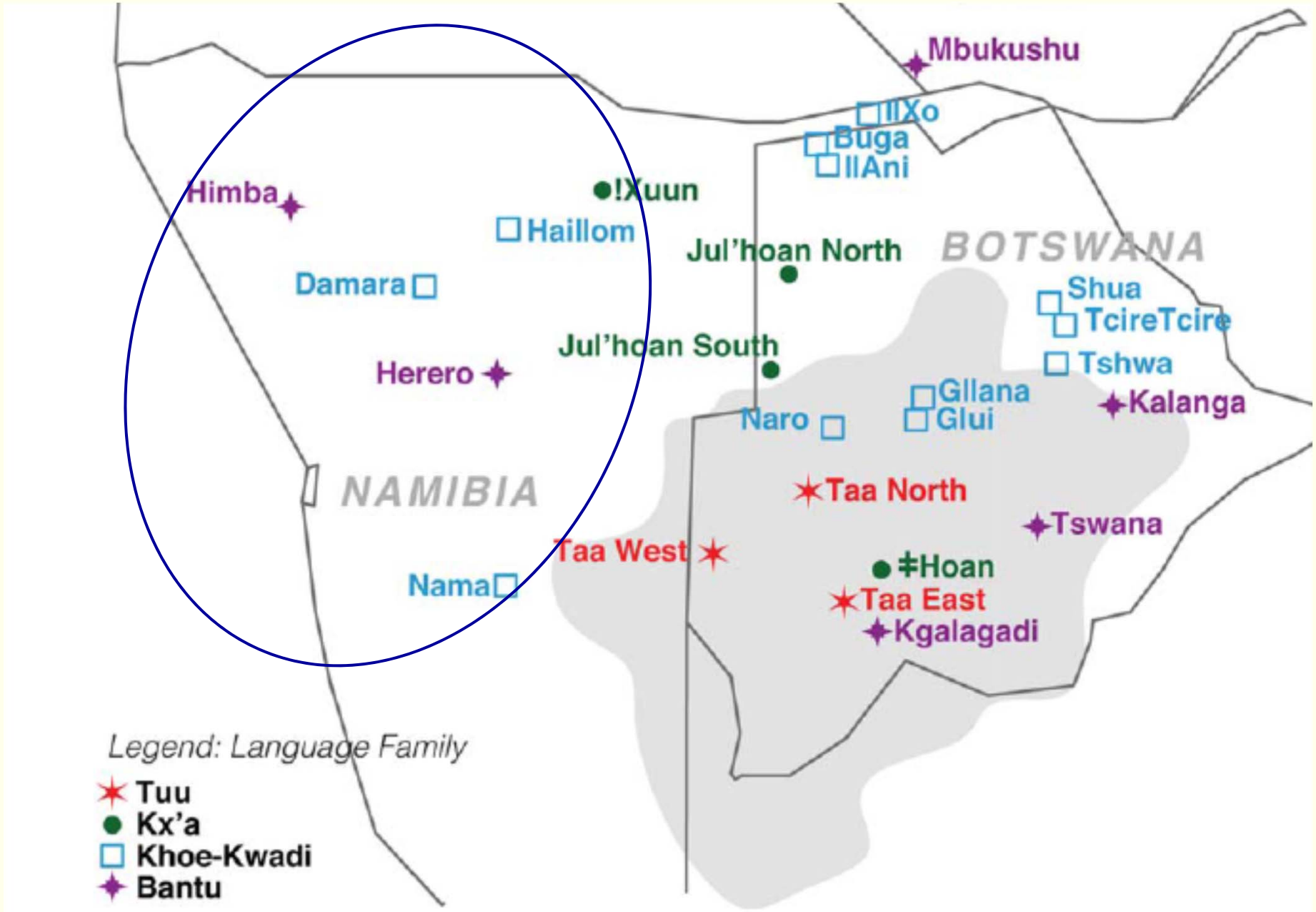
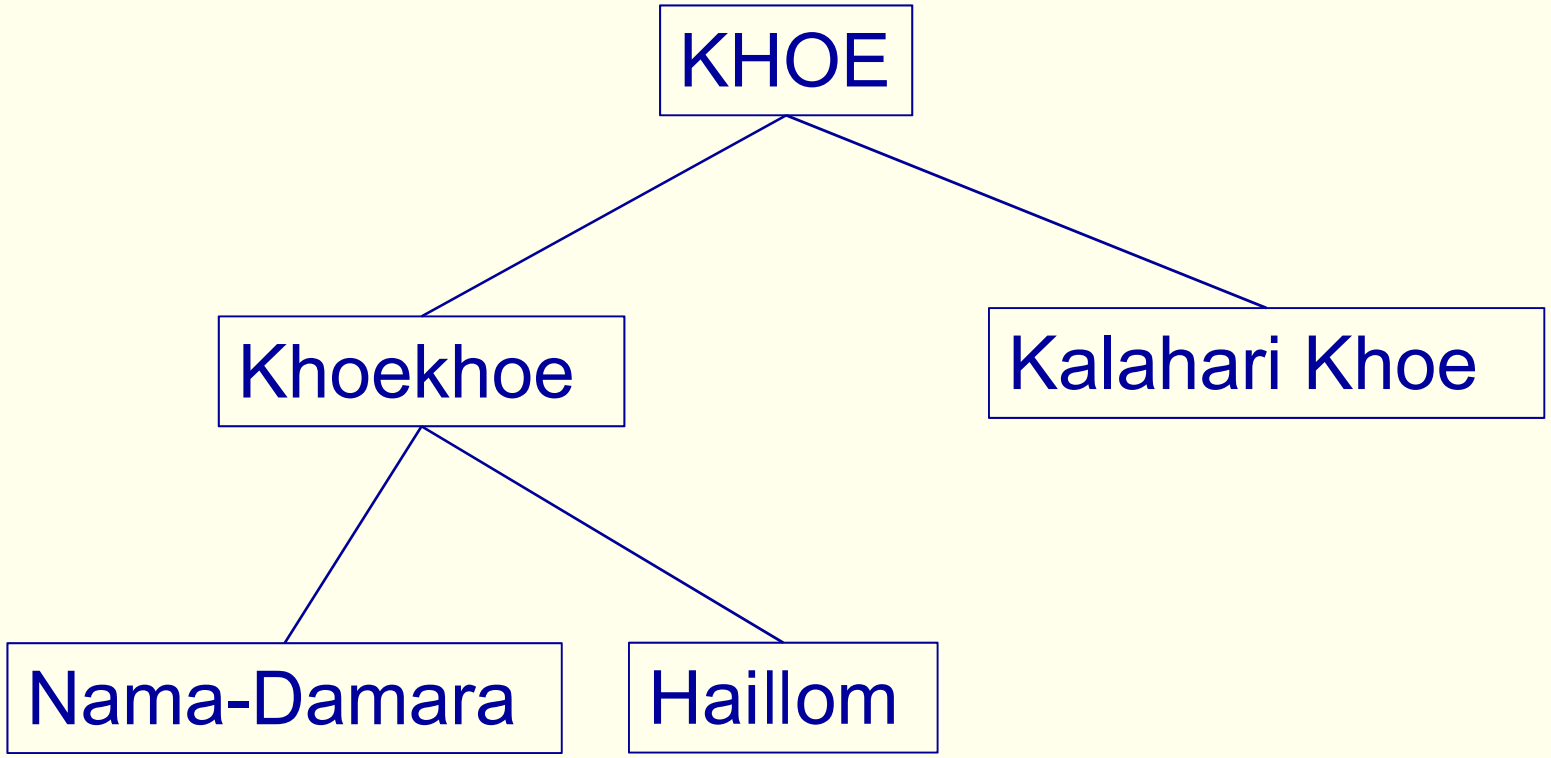
Namibia:

Nama, Haillom, Damara

!Xuun

Himba & Herero


Mbukushu
ǁXo
Buga
ǁAni
Himba
!Xuun
Haillom
Jul'hoan North
BOTSWANA
Damara
Shua
TcireTcire
Jul'hoan South
Tshwa
Herero
Gǁana
Glui
Kalanga
Naro
NAMIBIA
Taa North
Tswana
Taa West
ǂHoan
Nama
Taa East
Kgalagadi
Legend: Language Family
Tuu
Kx'a
Khoe-Kwadi
Bantu

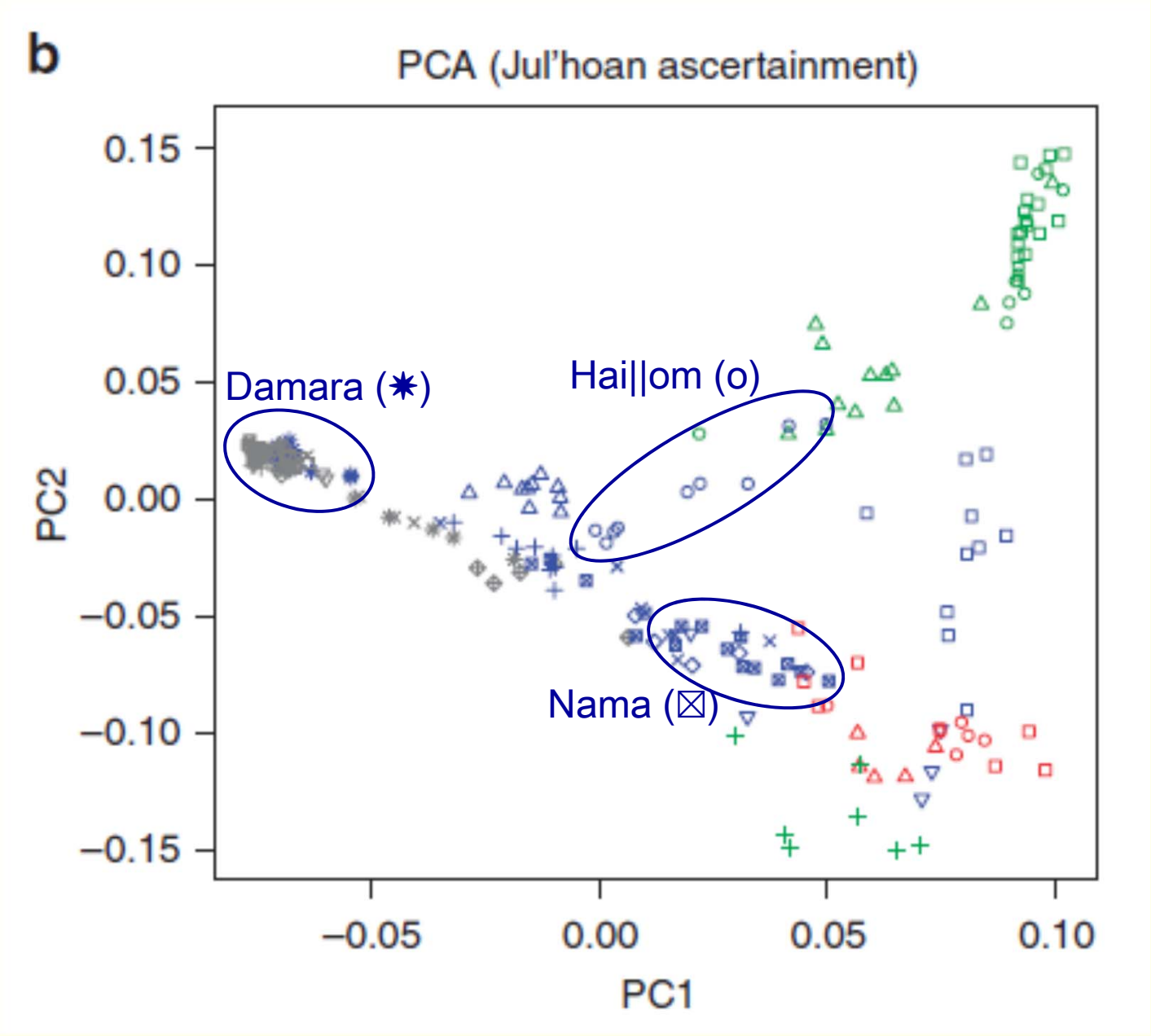


Güldemann 2014: 26

Himba & Herero:

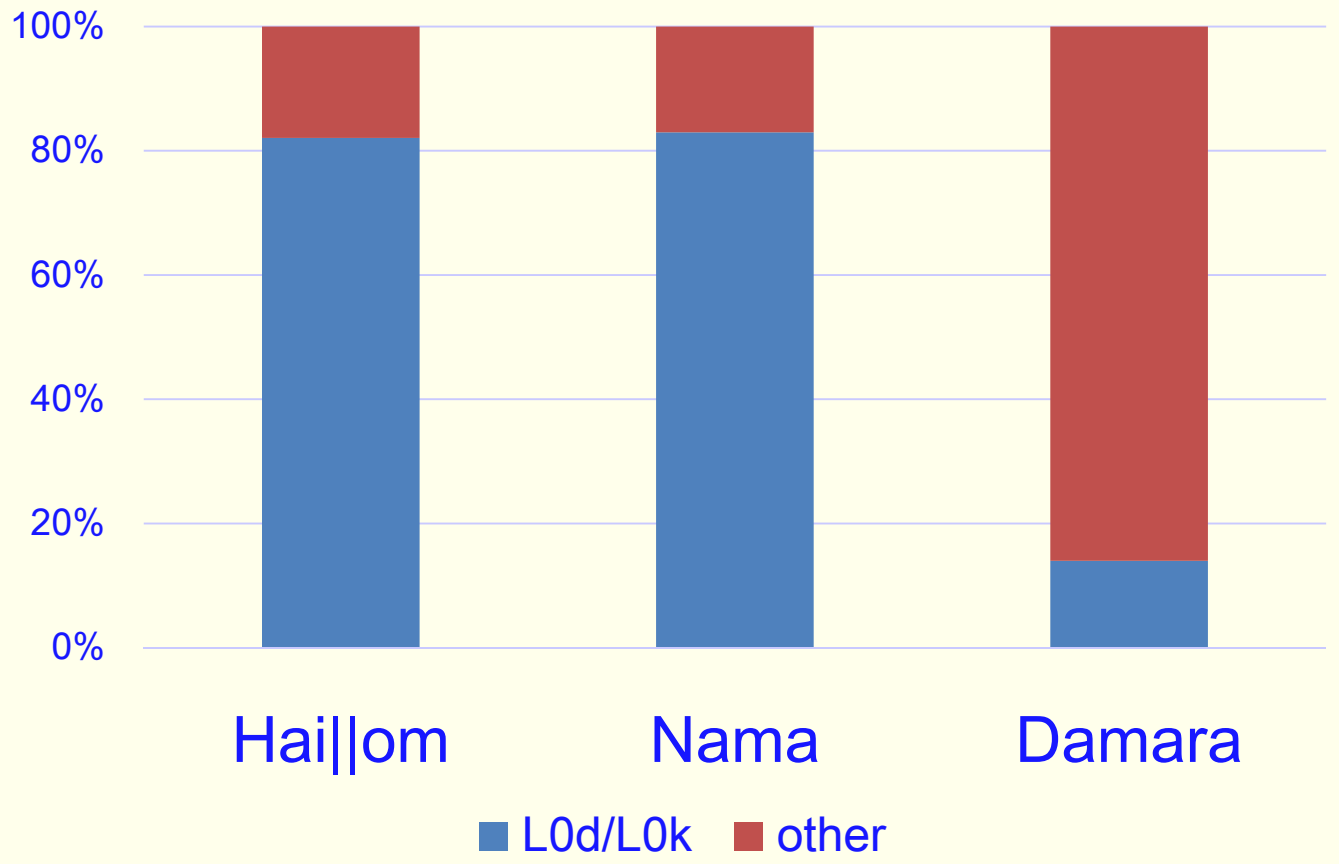
linguistically and culturally closely related Bantu pastoralists

KX'A
TUU
KHOE
"BANTU"



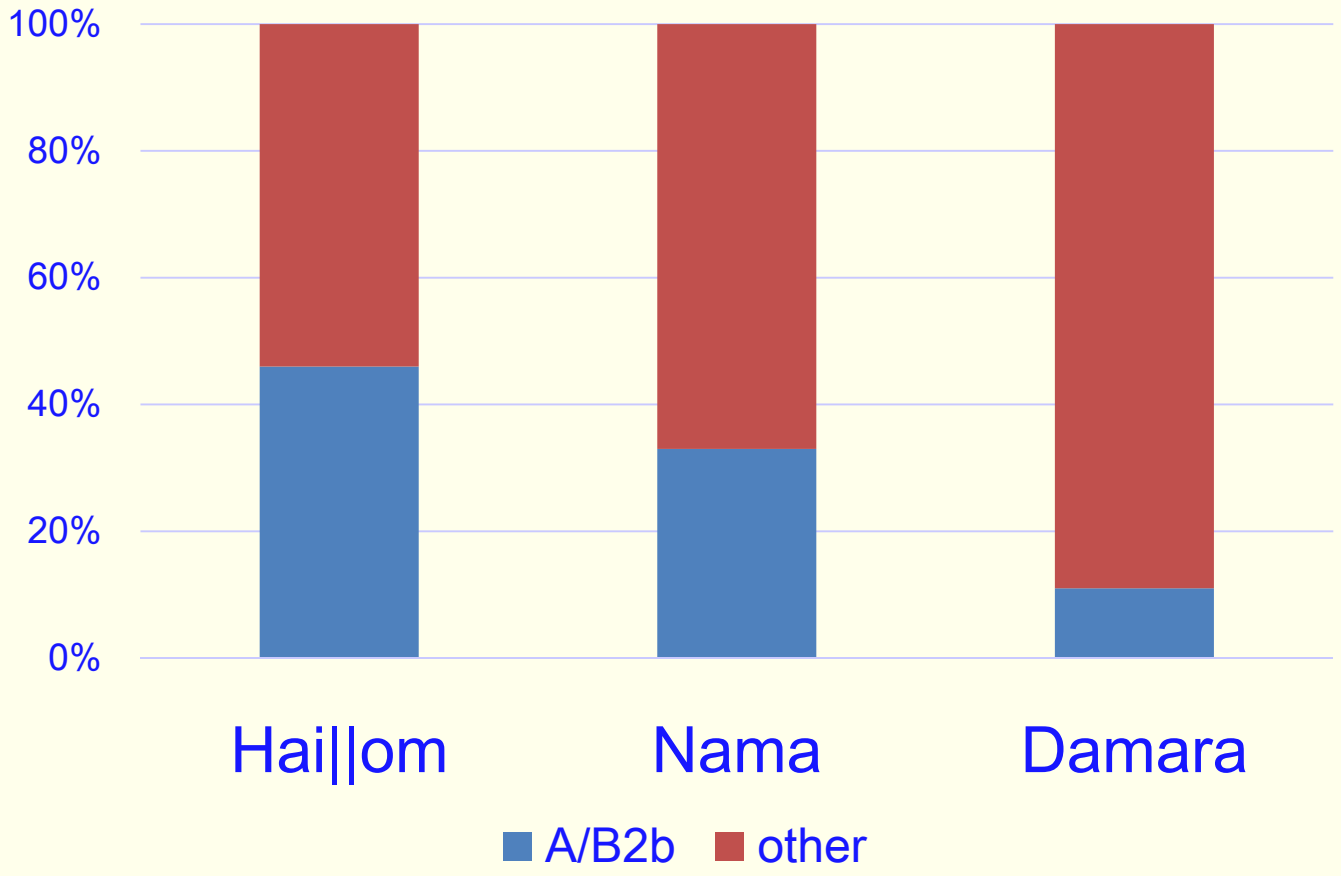
Pickrell et al. 2012

mtDNA composition



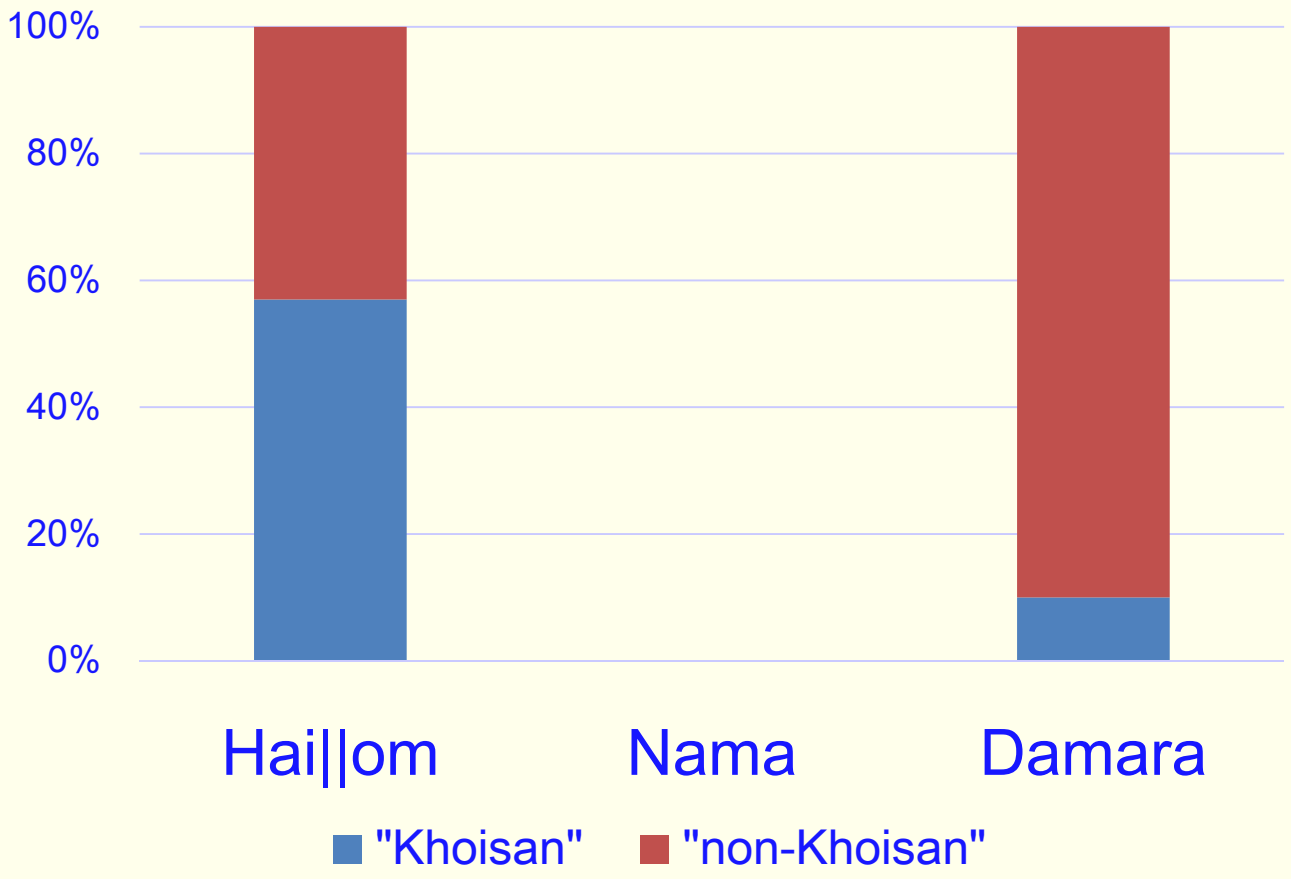
Barbieri et al. 2014

Y-chromosome composition



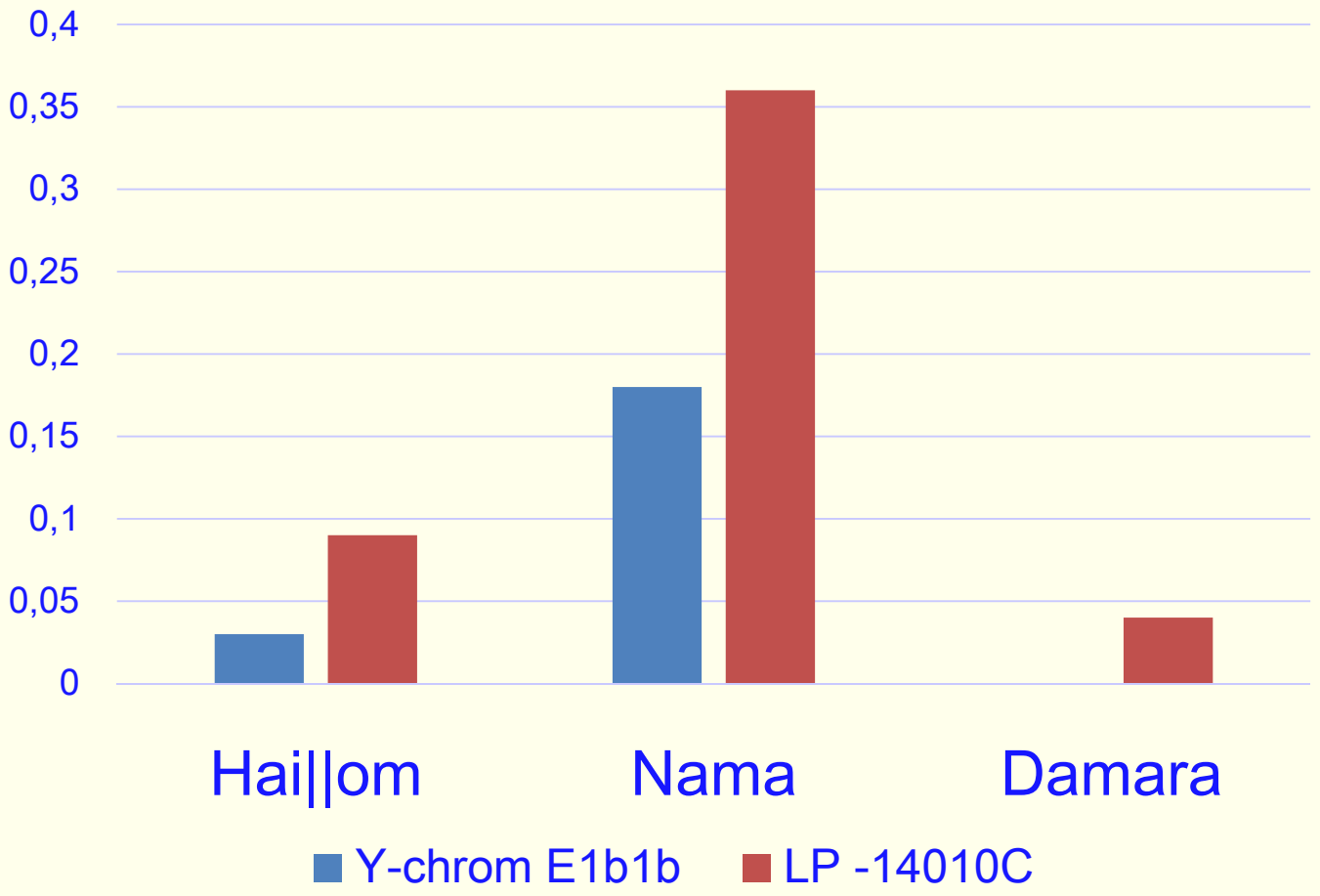
Barbieri et al. in prep

Autosomal ancestry composition



Pickrell et al. 2012

East African links (Y-chromosome and autosomes)



Barbieri et al. in prep, Macholdt et al. 2014

Nama

- no genetic differences between subgroups (Topnaar or others)
- up to 30% European gene flow in paternal line ~140 years BP
- clear links to East Africa
- female-biased intermarriage with indigenous populations, close relationship to Haillom

Damara

- genetically very different from other “Khoisan” populations
- ~75% clearly Bantu-associated Y-chromosome haplogroups, some European admixture in paternal line
- striking relationship with Himba and Herero → probably Damara maternal admixture into Himba and Herero

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KHOE
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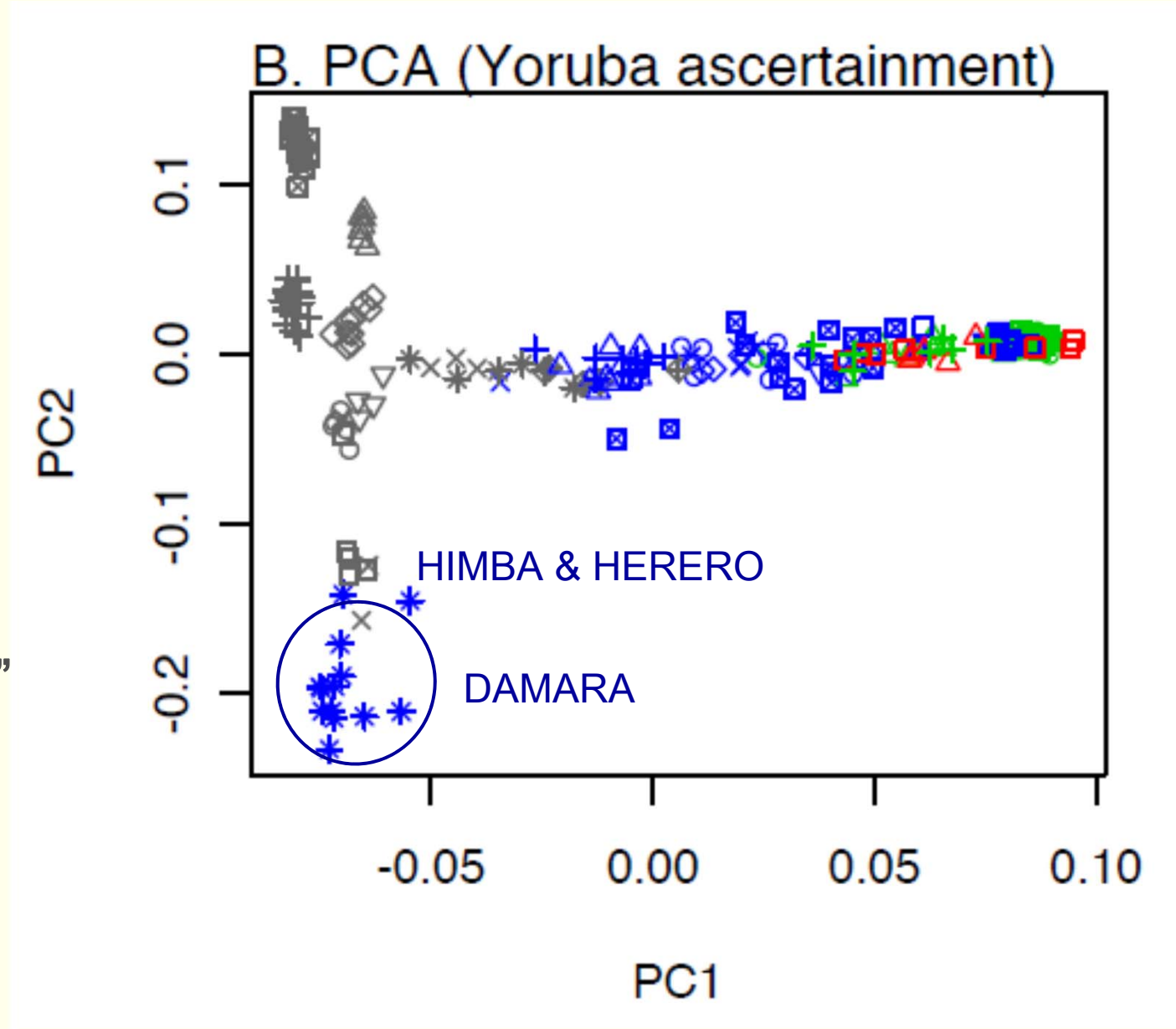
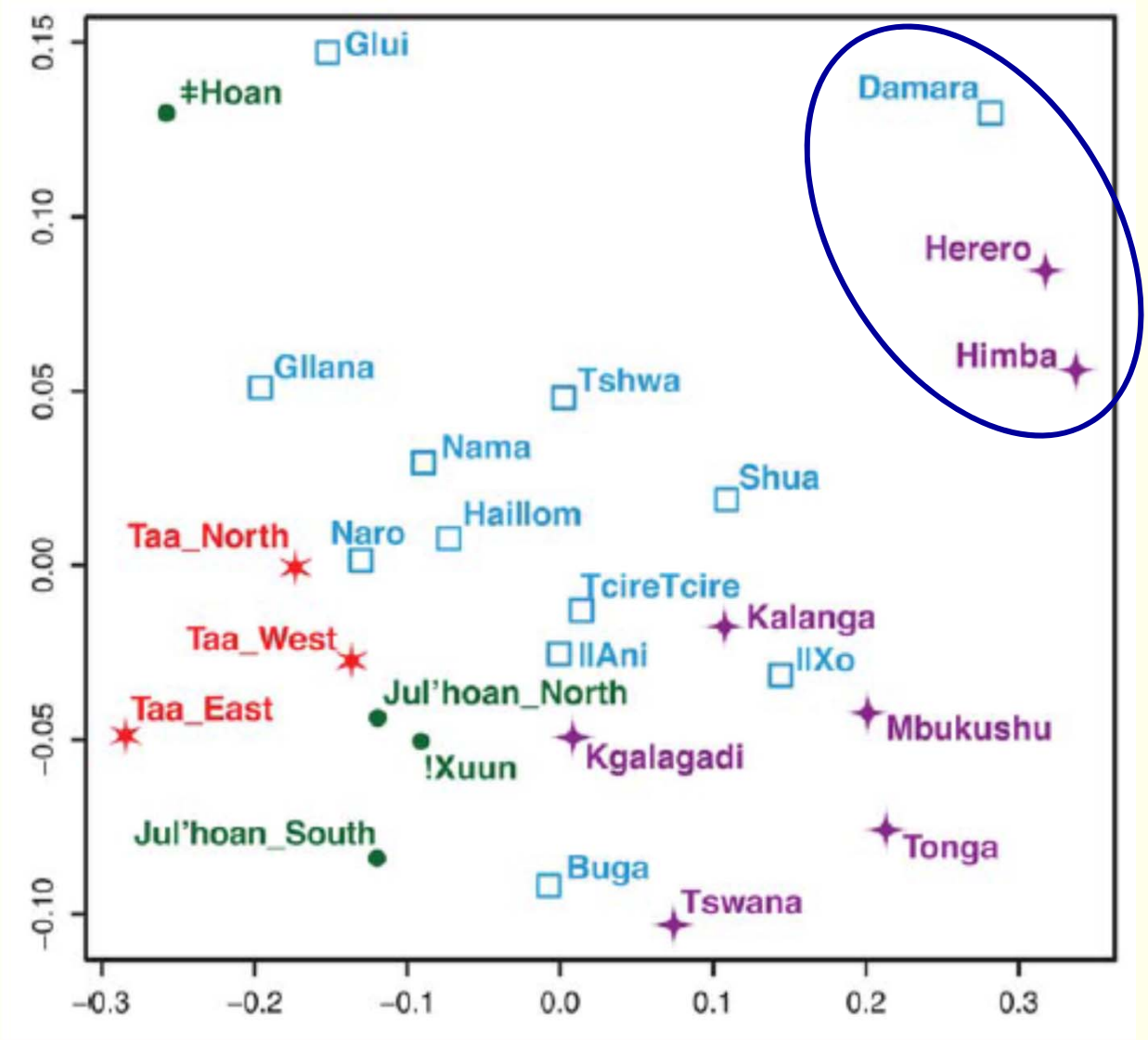


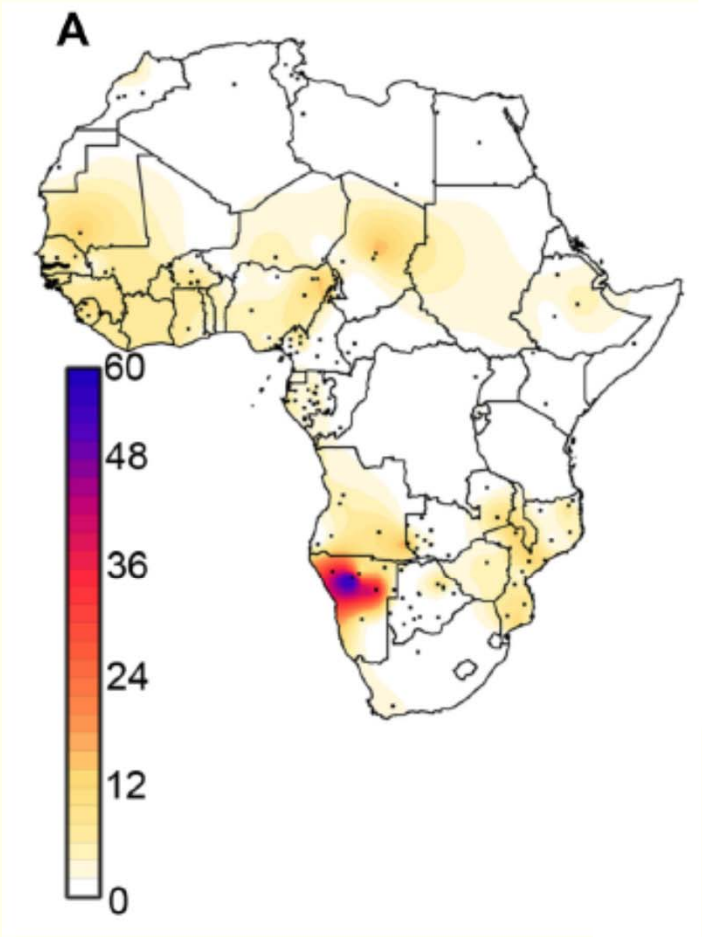
Pickrell et al. 2012

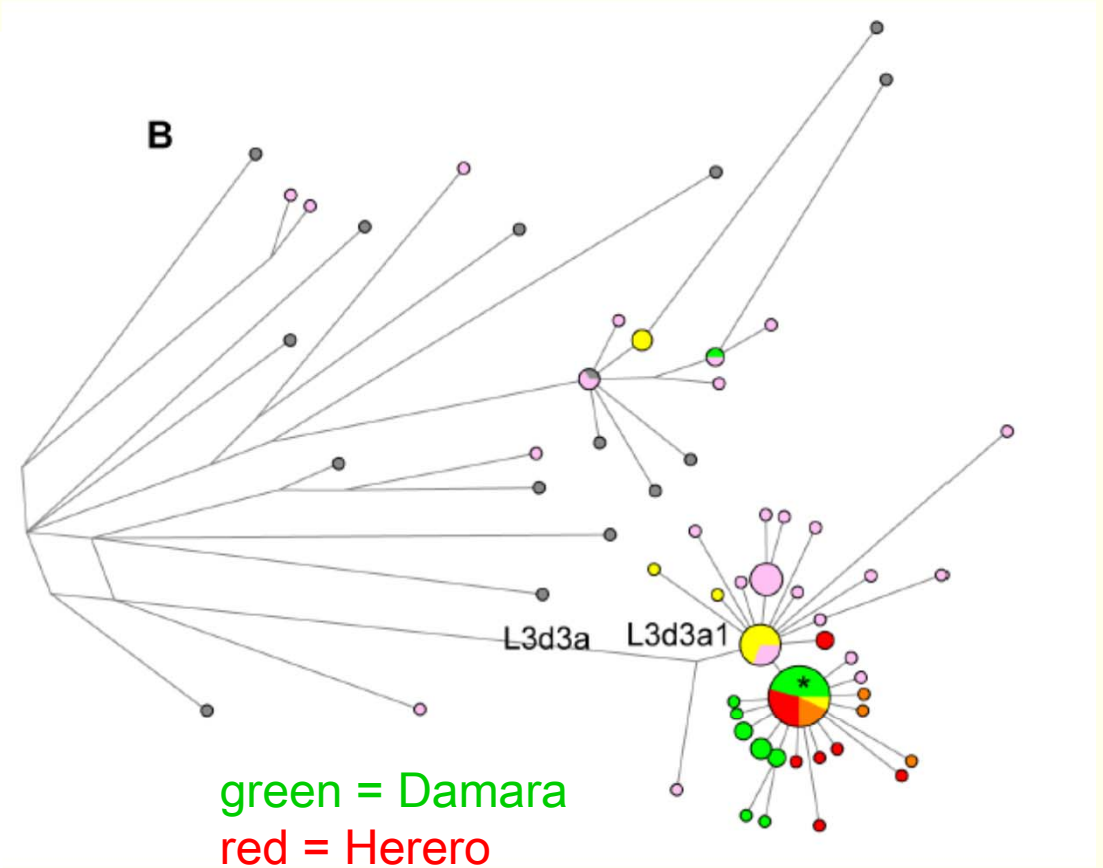
MDS based on mtDNA sequences



Barbieri et al. 2014
stress = 0.08

High frequency of shared mtDNA haplogroup

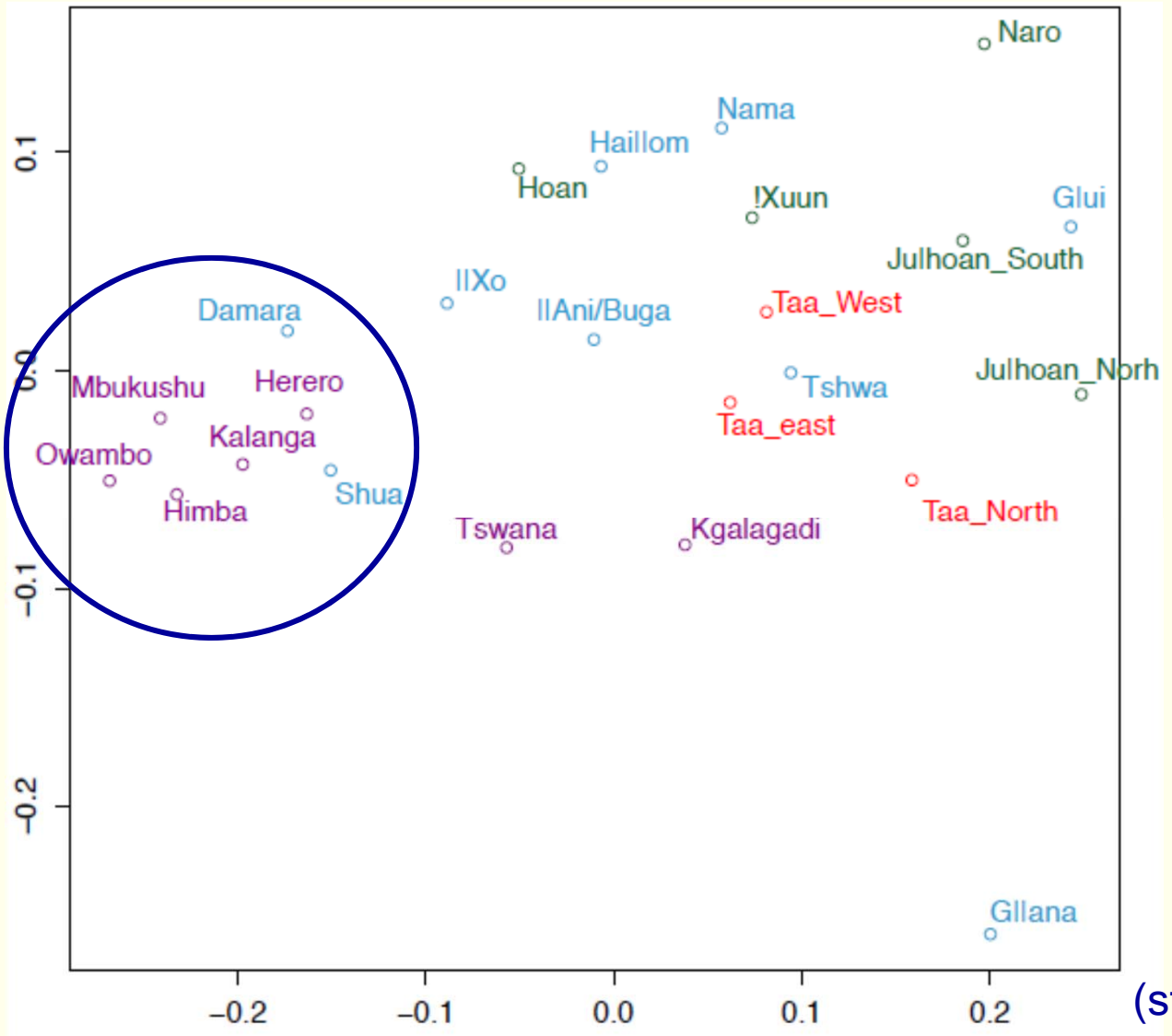




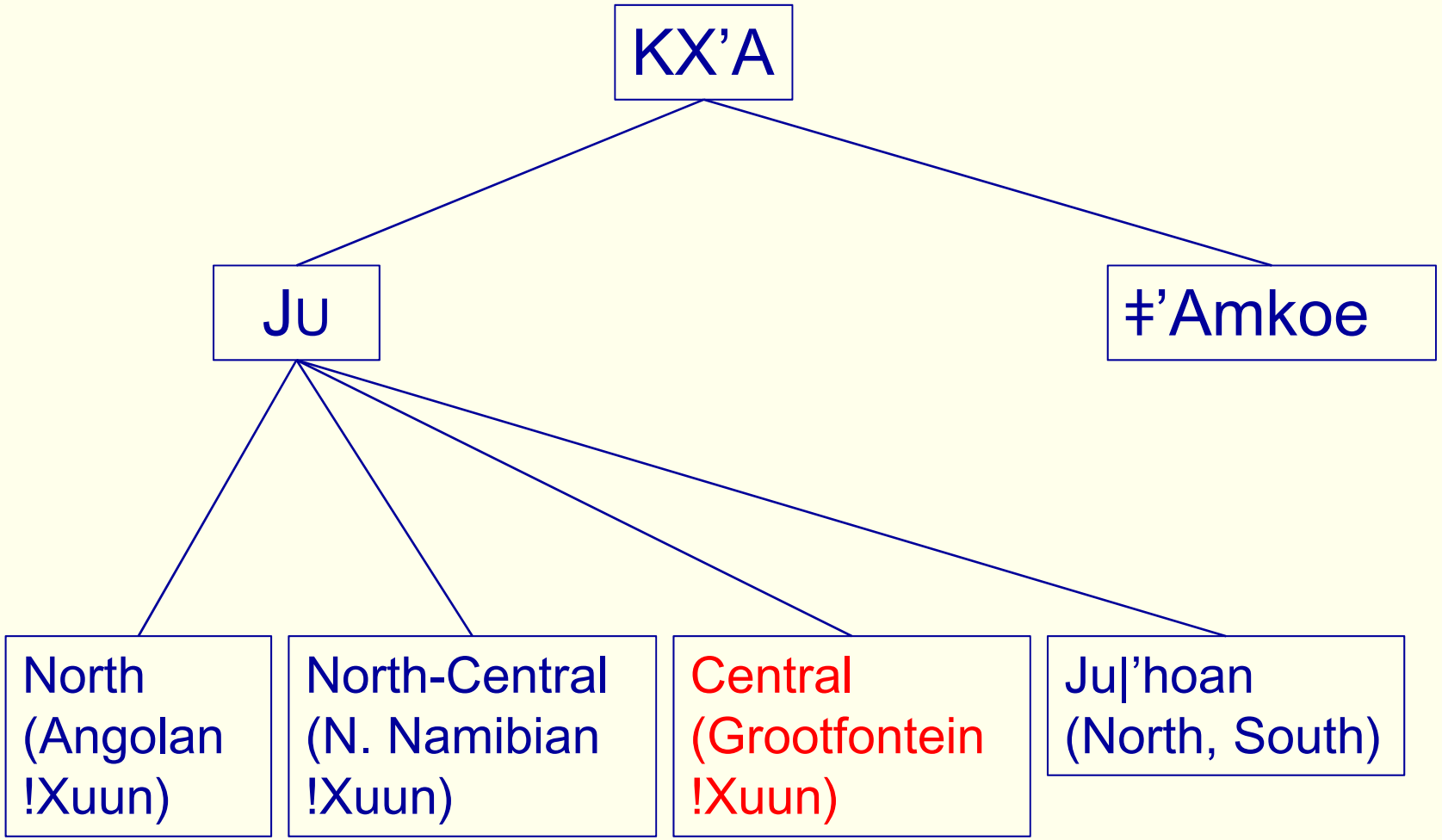
green = Damara
red = Herero
orange = Himba

Barbieri et al. 2014b

MDS based on Y-chromosomal sequences



(stress = 0.08)



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KX'A
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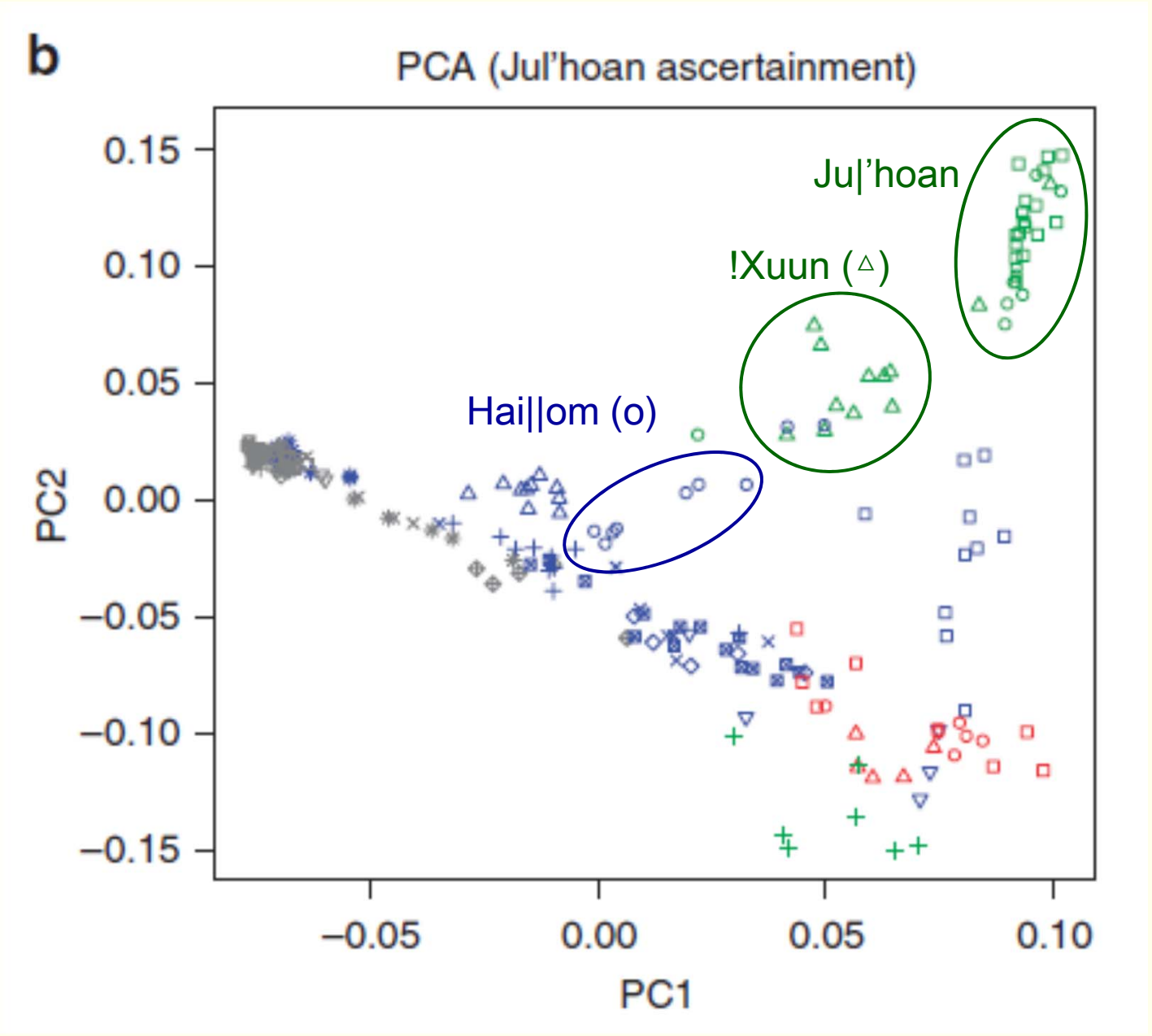
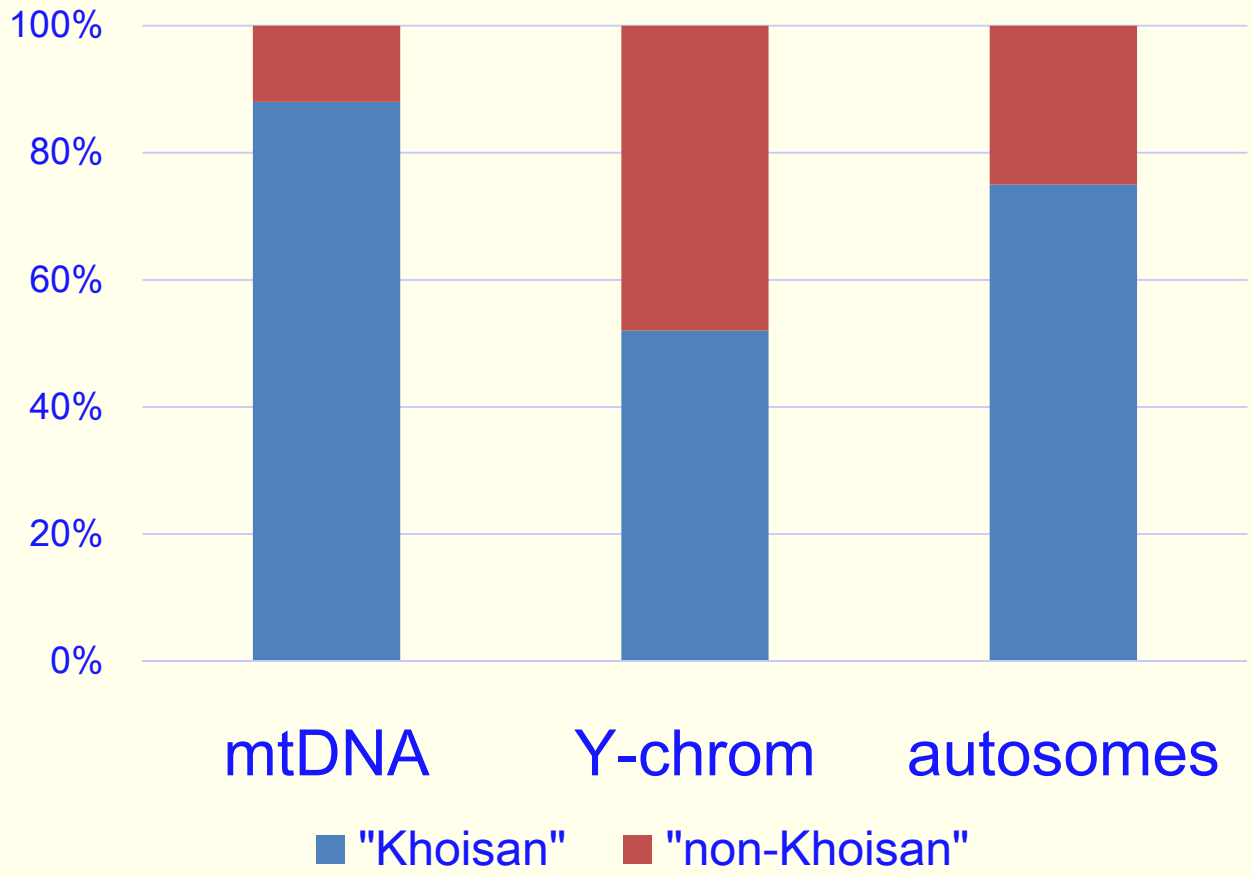


Pickrell et al. 2012

!Xuun



Barbieri et al. 2014, in prep.; Pickrell et al. 2012

!Xuun

- closely related to linguistically related Ju|'hoan
- but some difference due to admixture (mainly in paternal line)
- 24% Y-chromosome lineages of clear Bantu origin