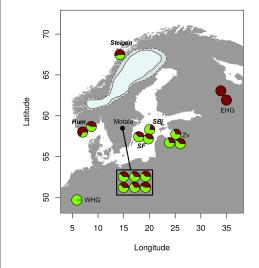


1/9

3/9

5/9

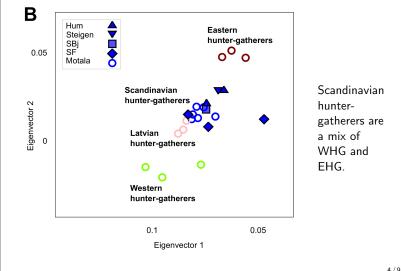
Genetic contributions to mesolithic Scandinavians



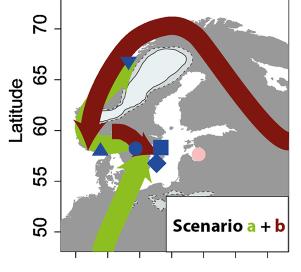
Eastern hunter-gatherers (EHG) contribute most in North.

Western hunter-gatherers (WHG) contribute most in South and East.

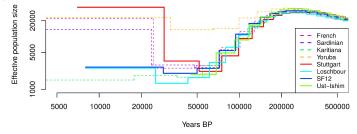
PC map







Population history (estimated by MSMC)



- Bottleneck mild for Yoruba of Africa, severe for Eurasians.
- Pleistocene population explosions among Eurasian populations that later became farmers.
- Little growth in foraging populations (Loschbour, SF12, Ust-Ishim)
- Bottleneck worse for Loschbour than SF12 (a Scandanavian from 9 kya).

6/9

2/9

Mesolithic Scandinavians were genetically different	Mesolithic alleles that remain common today are likely to be locally advantageous
 Many alleles that were common then are absent from modern populations. Modern Scandinavians inherit only a small fraction of their DNA from mesolithic Scandinavians. 	 Several such alleles are in the TMEM131 gene, which is associated with physical performance. Other such alleles affect metabolic, cardiovascular, developmental, and psychological traits. Günther et al. suggest these represent adaptation to cold.
7/9	8/9
Skin color	
 Scandinavian hunter-gatherers (SHG) carried alleles for pale skin and eyes. Especially in northern Scandinavia. Not true of WHG or EHG: suggests selection. 	
9/9	