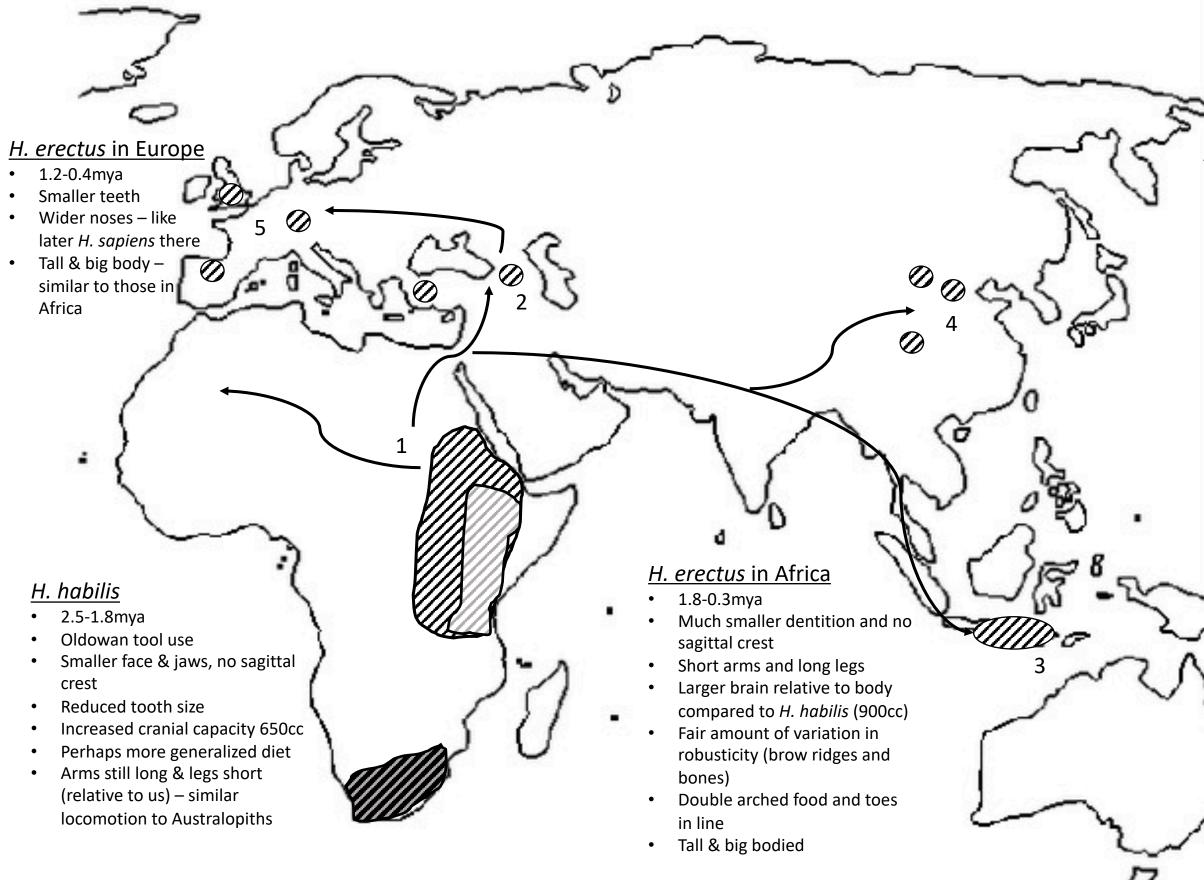
Homo habilis & Homo erectus: patterns, variation, & geographic distribution



Homo habilis

Homo erectus

H. erectus in Asia

- 1.8-0.3mya
- Compared to samples in Africa smaller faces, jaws, and brow ridges
- Oldest (Dmanisi, 1.8mya) have small cranial capacity 650cc - though have long legs relative to arms
- Those from Java are quite old (1.8-1.6mya) • have sagittal keel
- Older ones from China (1.7-1.2 mya) have an 800 cc cranial capacity & found with animal bones with butchery marks
- Younger ones (800kya) from Indonesia have ٠ much larger cranial capacity at 1000cc
- Younger ones from China (780-400kya) have • lots of bones and teeth and many stone tools
- Those from Turkey have large brow ridges and a sagittal keel, also younger at 500kya

Trait	Australopithecines \rightarrow H. habilis	
Teeth	Molars go from very large to more reduced, same with canines	Teeth get smalle
Face & Jaws	Much more gracile face and jaws – not as much buttressing for large muscle attachments	Face and jaws ge
Brain	Brain gets bigger, but not a huge amount (400-500cc in Australopiths to about 650 in H. habilis)	Gets larger relat <i>erectus</i> (650cc w from Asia & Afrio
Brow ridge & Sagittal Crest	These more or less do not exist in <i>H. habilis</i> , very gracile face, not much brow ridge at all	No crest, but inc
Cranial Bone	Similar	Gets thicker
Body size	Very similar	Gets much bigge
Arms length	Very similar	Shorter relative
Leg length	Very similar – likely had similar styles of obligate bipedalism and not the long striding we have now	Longer – enablin
Diet	Similar, but <i>H. habilis</i> did more scavenging and may have had more plants available	Much more varie animal protein a
Culture	Oldowan tool culture	SO MUCH! Ache diversity in types controlled use of
Geographic Distribution	Africa – same for both	Africa, Asia (Chir

H. habilis \rightarrow H. erectus

ler still

get smaller as well

ative to body size, and get larger over time with *H*. with Dmanisi up to ~1000 cc with later specimens frica)

ncreased size of brow ridge

ger – especially taller

e to legs

ing the efficient striding bipedalism we have today

ried and likely had more consistent source of and potentially cooked plant and animal matter

neulean Complex tool culture (hand axe, but good bes and material) that likely enabled <u>hunting</u>, of fire – these things likely enabled distribution

nina & Indonesia), & Europe