Genghis Khan (1162–1227 AD)

Males and Females in Stratified Societies

Alan R. Rogers

April 8, 2015



- United nomadic tribes of NE Asia
- Conquered most of Eurasia



The Mongol Empire



They [the Mongols] attacked Rus, where they made great havoc, destroying cities and fortresses and slaughtering men; and they laid siege to Kiev, the capital of Rus; after they had besieged the city for a long time, they took it and put the inhabitants to death. When we were journeying through that land we came across countless skulls and bones of dead men lying about on the ground. Kiev had been a very large and thickly populated town, but now it has been reduced almost to nothing, for there are at the present time scarce two hundred houses there and the inhabitants are kept in complete slavery. (Giovanni da Pian del Carpine, 1246)



Zerjal et al 2003: The genetic legacy of the Mongols

- ▶ Typed 2,123 men fo \geq 32 Y-chromosome markers.
- Most Y haplotypes occurred only once.
- A few occurred several times within a single population.
- ▶ But one cluster of haplotypes (the "star cluster") constituted 10% of the sample, throughout the old Mongol Empire.





Color: geographic region

Gray shading shows star cluster.

Note its geographic distribution.

3/26

Geographic distribution of star cluster coincides with The Hazara of Pakistan Mongol Empire—except for the Hazara BUSSIA Of Mongol descent. Many men claim male descent from Genghis. Genetics suggests they are right. Pacific Ocear n≥60 (n = 30) Star-Cluste 7 / 26 Genghis's legacy Age of star cluster Genghis Khan and his sons had an enormous influence of the \blacktriangleright Several methods, based on genetics, indicate an age of ${\sim}1000$ genetics of Eurasia. years. His Y chromosome is carried today by ${\sim}16$ million men, ${\sim}0.5\%$ of • Genghis was born 850 y ago. the world's total. 9/26 Study of Xue et al 2005

- - ► Found another example of the same phenomenon.
 - Manchu haplotype
 - ▶ ~600 y old
 - Throughout N China and Mongolia.
 - ► Seems to derive from Giocangga (died 1582), the grandfather of Manchu leader Nurhaci.

Manchu haplotype even more common that Genghis's





17 / 26

18 / 26

Pattern is less pronounced elsewhere



Hypothesis



19 / 26

21 / 26

All the male populations at once







Agriculture \rightarrow stratified society \rightarrow a few males monopolize reproduction.

Dip in male population size implies a dip in autosomal size





20 / 26

