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100,000-year-old human skulls from east Asia reveal complex mix of trends in time, space

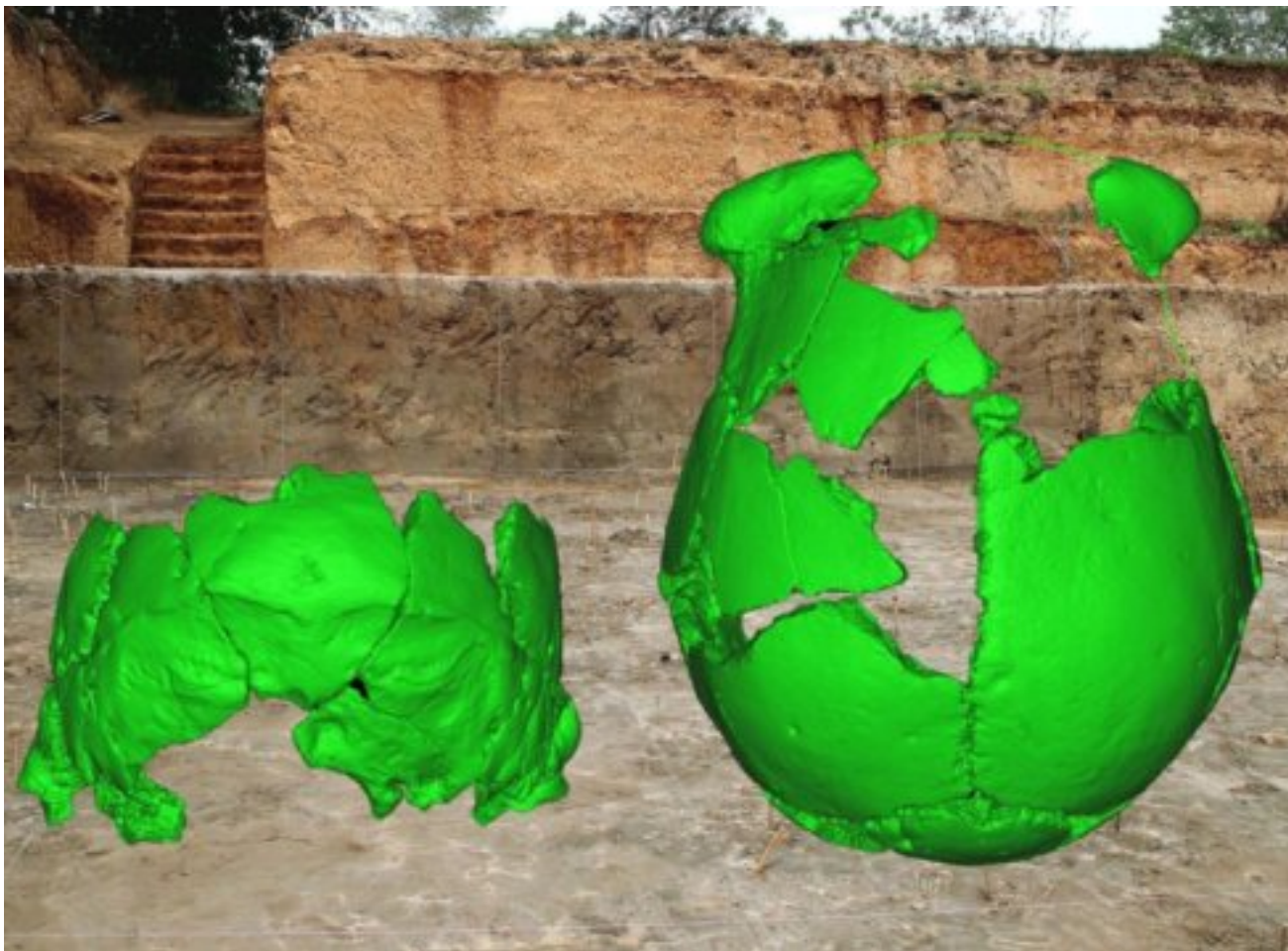
Date: March 2, 2017

Source: Washington University in St. Louis

Summary: Two partial archaic human skulls, from the Lingjing site, Xuchang, central China, provide a new window into the biology and populations patterns of the immediate predecessors of modern humans in eastern Eurasia.

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Virtual reconstructions of the Xuchang 1 and 2 human crania are superimposed on the archeological site

where they were discovered.

Credit: Xiujie Wu

Two partial archaic human skulls, from the Lingjing site, Xuchang, central China, provide a new window into the biology and populations patterns of the immediate predecessors of modern humans in eastern Eurasia.

Securely dated to about 100,000 years ago, the Xuchang fossils present a mosaic of features.

- With late archaic (and early modern) humans across the Old World, they share a large brain size and lightly built cranial vaults with modest brow ridges.
- With earlier (Middle Pleistocene) eastern Eurasian humans, they share a low and broad braincase, one that rounds onto the inferior skull.
- With western Eurasian Neandertals, they share two distinct features -- the configuration of their semicircular canals and the detailed arrangement of the rear of the skull.

"The biological nature of the immediate predecessors of modern humans in eastern Eurasia has been poorly known from the human fossil record," said Erik Trinkaus, a corresponding author for the study and professor of anthropology at Washington University in St. Louis. "The discovery of these skulls of late archaic humans, from Xuchang, substantially increases our knowledge of these people."

More importantly, he noted: "The features of these fossils reinforce a pattern of regional population continuity in eastern Eurasia, combined with shared long-term trends in human biology and populational connections across Eurasia. They reinforce the unity and dynamic nature of human evolution leading up to modern human emergence."

Story Source:

Materials provided by **Washington University in St. Louis**. *Note: Content may be edited for style and length.*

Journal Reference:

1. Zhan-Yang Li, Xiu-Jie Wu, Li-Ping Zhou, Wu Liu, Xing Gao, Xiao-Mei Nian, Erik Trinkaus. **Late Pleistocene archaic human crania from Xuchang, China**. *Science*, 2017; 355 (6328): 969 DOI: 10.1126/science.aal2482

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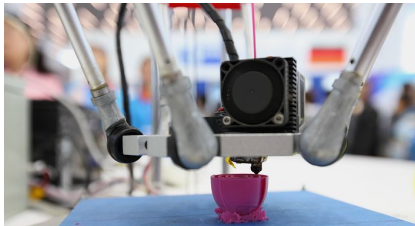
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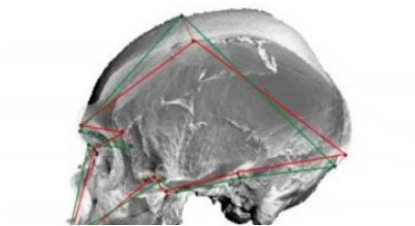
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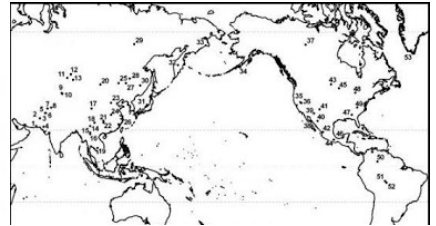
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