

北京人? 山頂洞人? 北京猿人? 北京猿人? 尼安德特人? 工具猿?直立猿?沙丘人?

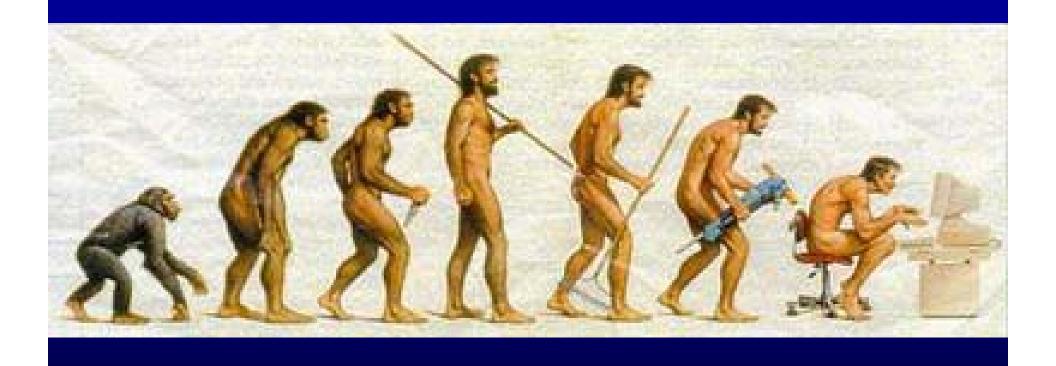
谁是谁的祖先?

Texas State Board of Education 美國德州教育局規定

- requiring students to "critique" and examine "all sides of scientific evidence"
 - 中學生要"評判"和檢驗"科學証據的面面觀"
- students to "analyze and evaluate" the evidence for major evolutionary concepts

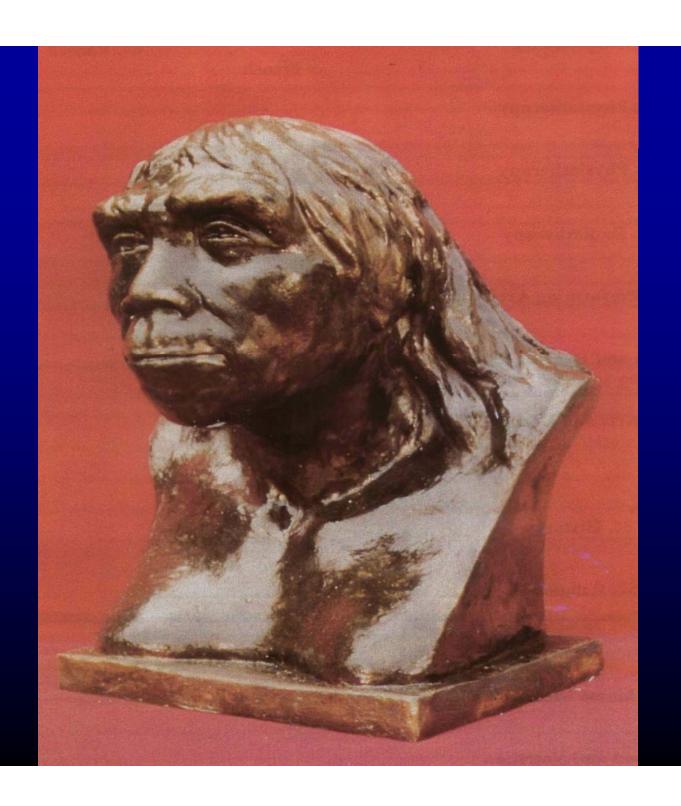
學生要"分析和評估"進化思想的証據--共同祖先,突变,自然选择

[超过78%赞成同时讲授进化论正反两面的证据。]



進化→

退化?



周口店 Peking Man

科学証據?



近兩年誰去參觀過?

1921年:受当地农民指引,瑞典人安特生来到龙骨山,与奥地利人师丹斯基发提,周口店第一地点,当年得一人类臼齿,1923年继续发掘,所得材料均运往瑞典乌普萨拉研究,

Peking Man site.O.Zdansky(a Austrian) excavated in Peking Man site and found a human molar.

1926年:在瑞典的实验室的周口店材料中修理出又一枚人牙.10月,安特生在北京欢迎瑞典太子访华会上宣布了这个东亚古人类的重要发现。

laboratory in Sweden among the materials unearthed from Peking Man site.

1927年: 枚下臼齿.步 发现下颌骨 large scal A well pri ed a new nsis for



1926 3rd human tooth 瑞典太子訪華 會上宣佈

中国猿人北京种 "Peking man"

1941年:珍珠港事件后,已出土的北京人化石失踪了,两至时 是魏敦瑞洋细研究了北京人化石,发表了很多本专著,提供了关于 当时所知的最早人类祖先体质形态的系统知識,现在仍不失为关

于直立人的体质的重要著作。1941, Peking Man fossils lost. But morphological information of them has been collected by F. Weidenreichta German Jewiwhose publications on Peking Man provided most part of the knowledge of the body structure of earliest humans known until that time.

工作,1951年再次发掘,共发现北京人牙5枚,残 肢骨二段,1950年从瑞典的周口店材料中又发现一

校北京人牙. 1949.The excavatiuon of Zhoukoudian sites resumed. Five teeth and two fragments of limb bone of Peking Man were found. Another premolar was found in materials transported to sweden from Peking Man site before the world war II.



周口店 Peking Man

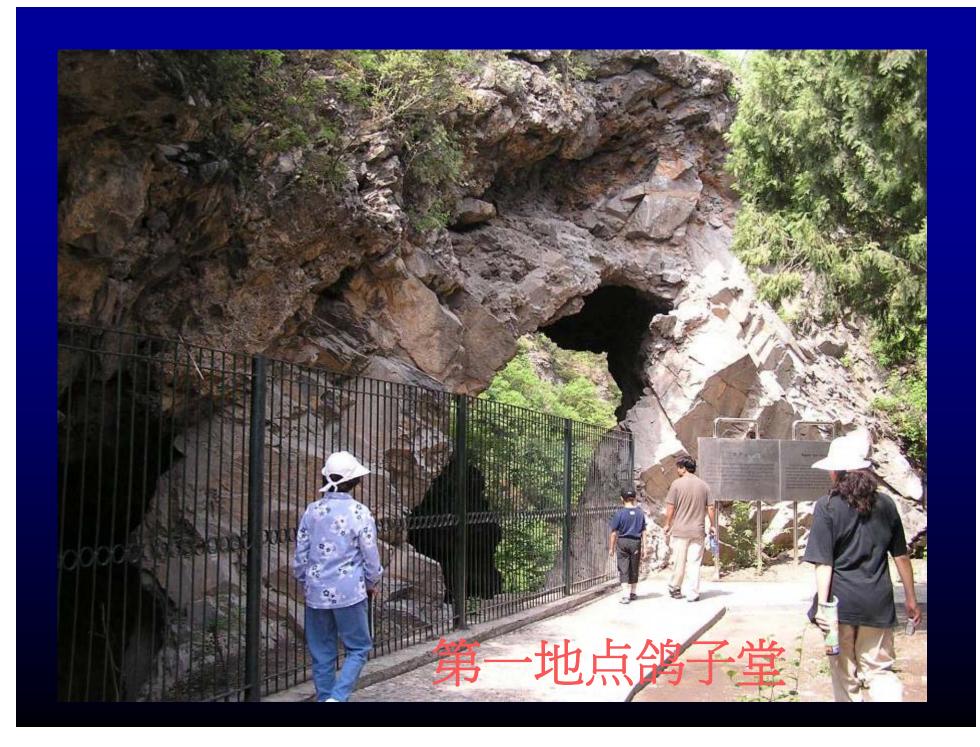
三顆人牙铅笔画來的!

1921-6年在龙骨山第一洞 發现 3 颗人牙 human teeth 被命名为:

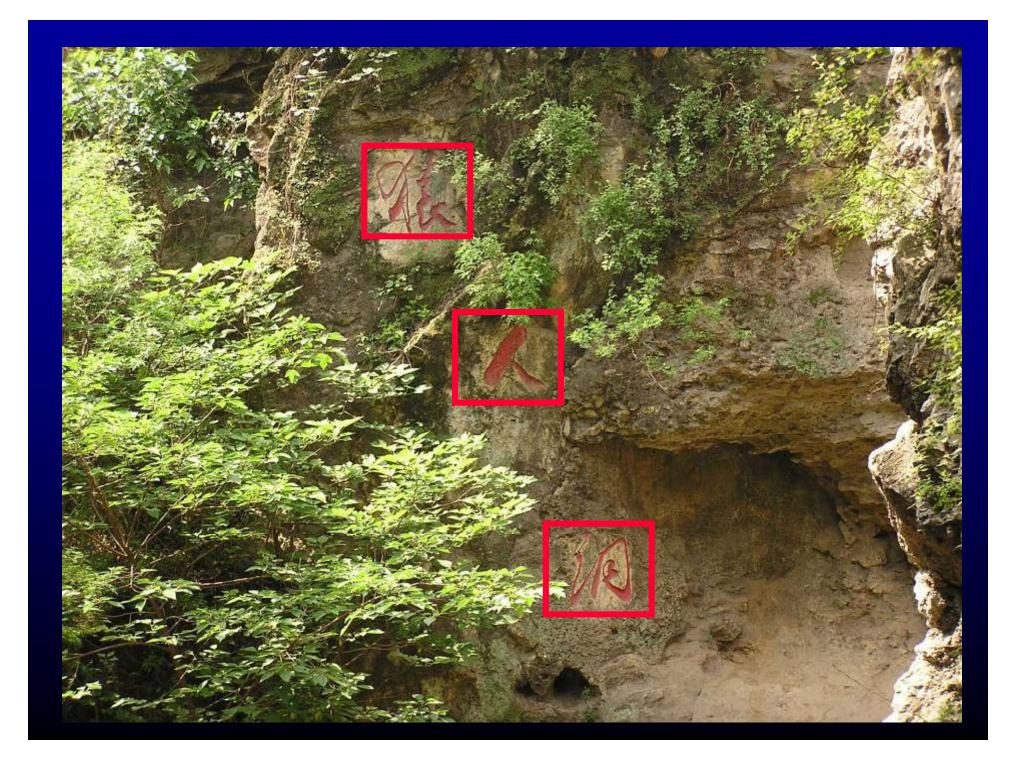
"中國猿人北京種"

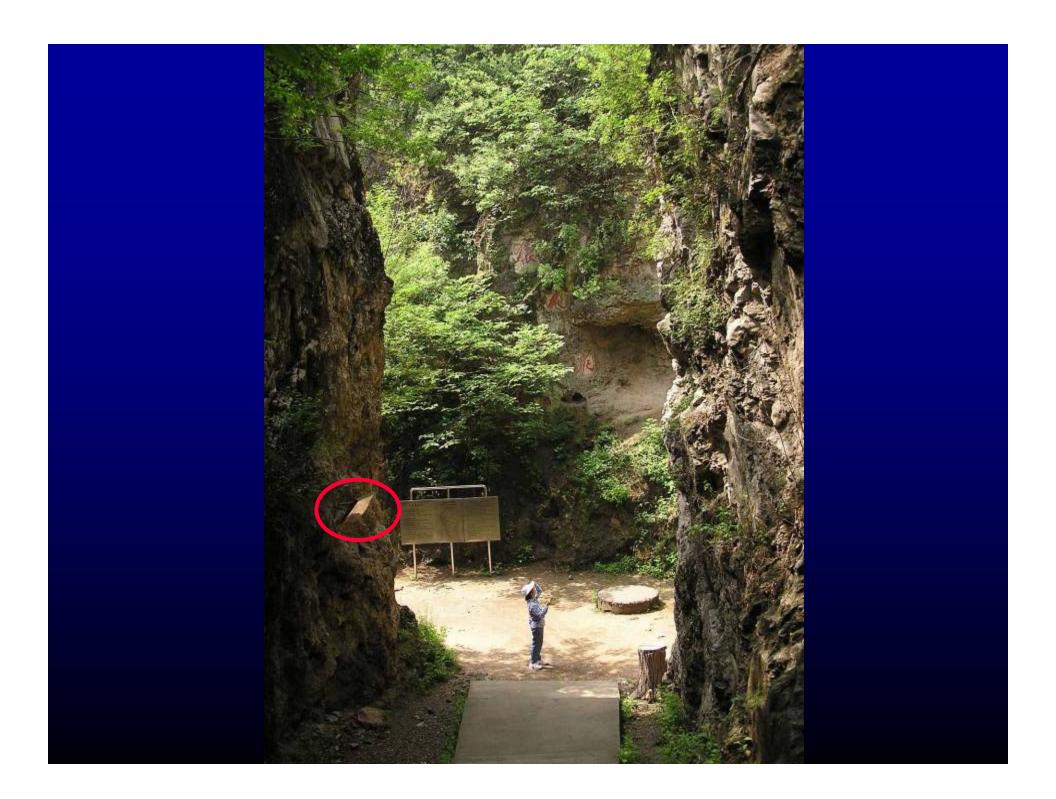
俗名:"北京人"

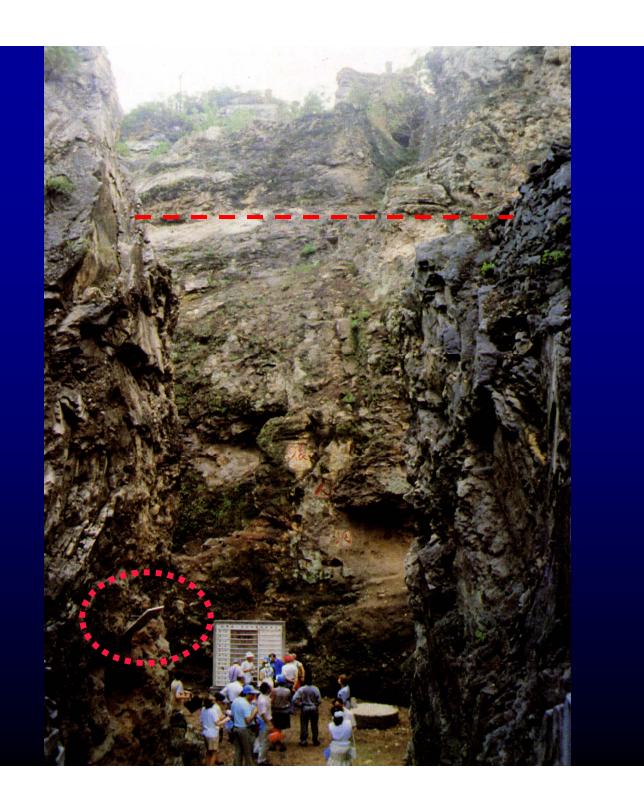


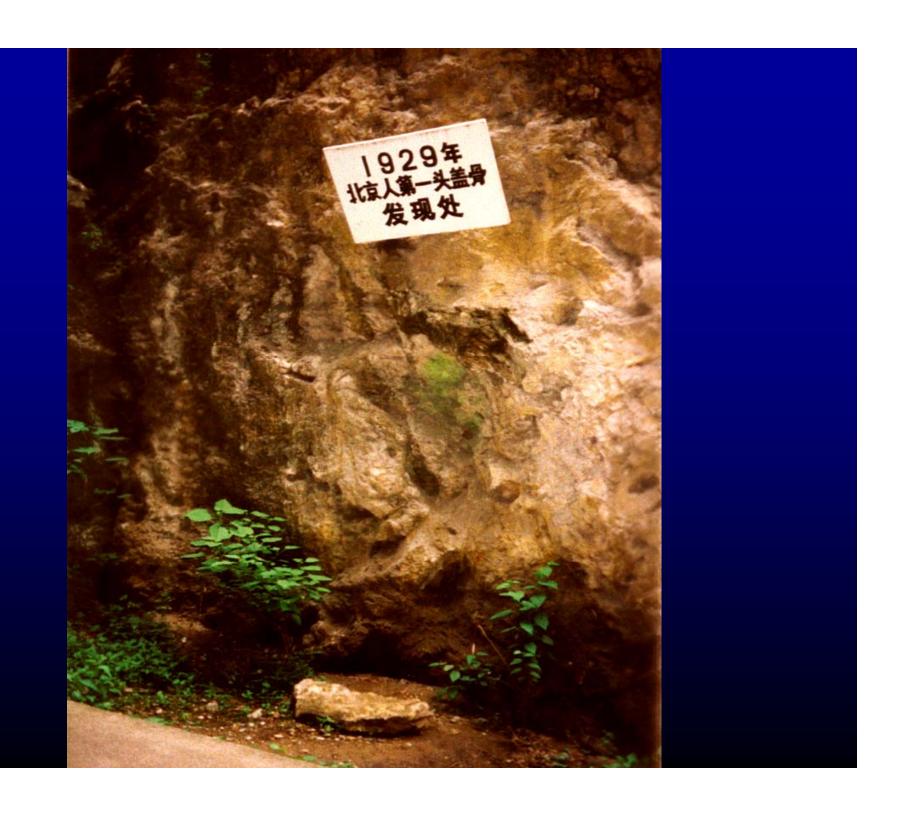






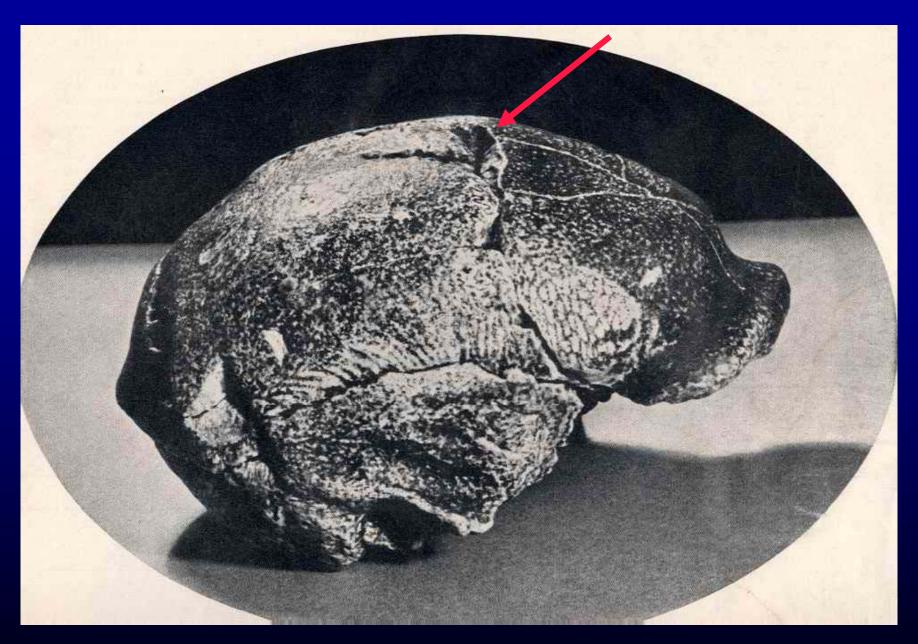






開掘猿人洞的第二天, 1929年12月2日下午4时, 裴文中用绳子拴腰下到10多米深的 猿人洞底,发现 的頭蓋骨 "一半在软土中,一半在硬土中…"





"异常厚…真不像人!"

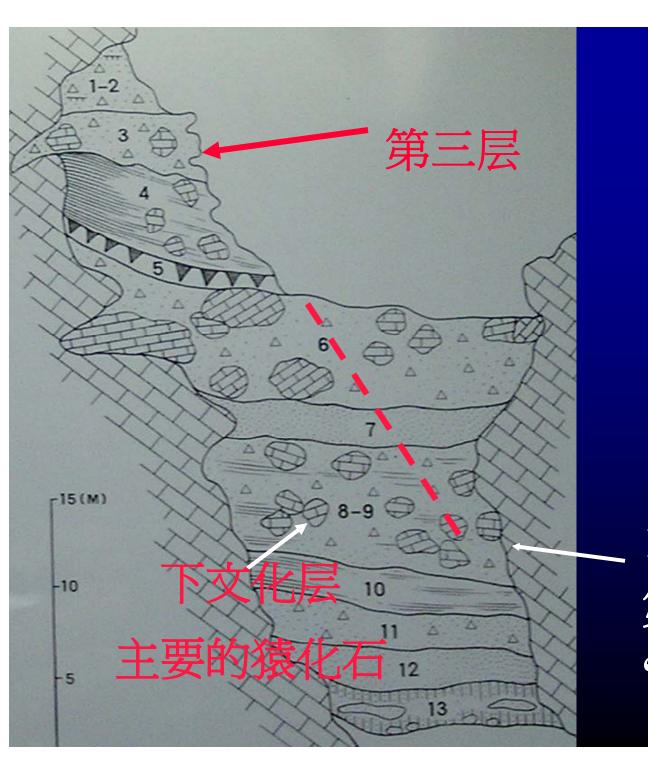
1921年战摇周 口店龙骨山的照片

1929年裴文中 教授发现了第一具头 盖骨·图片示裴手抱 第一具头盖骨的情景。









1929 看到 第一頭蓋骨 "50 萬年前"



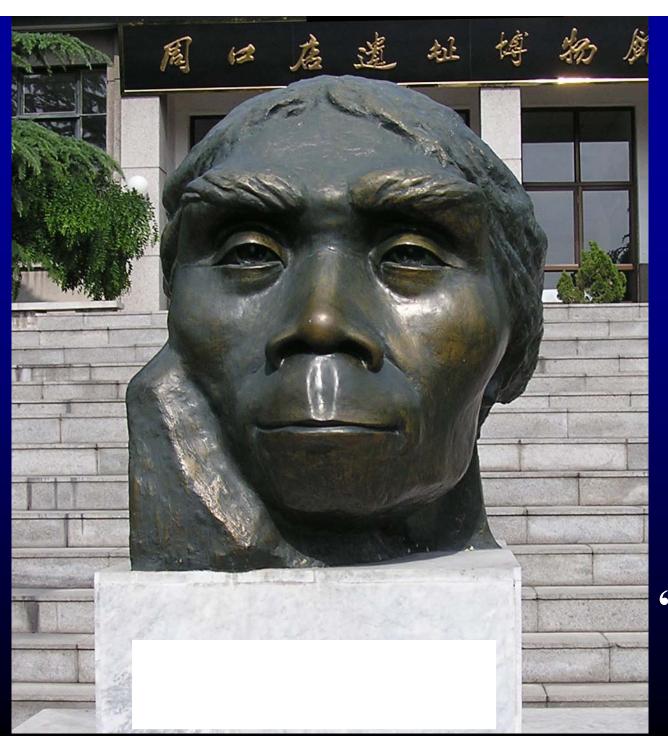
頭蓋骨碎片



六個較 "完整" 的頭蓋骨







它就是 人的

"祖先"?

(2004)





?



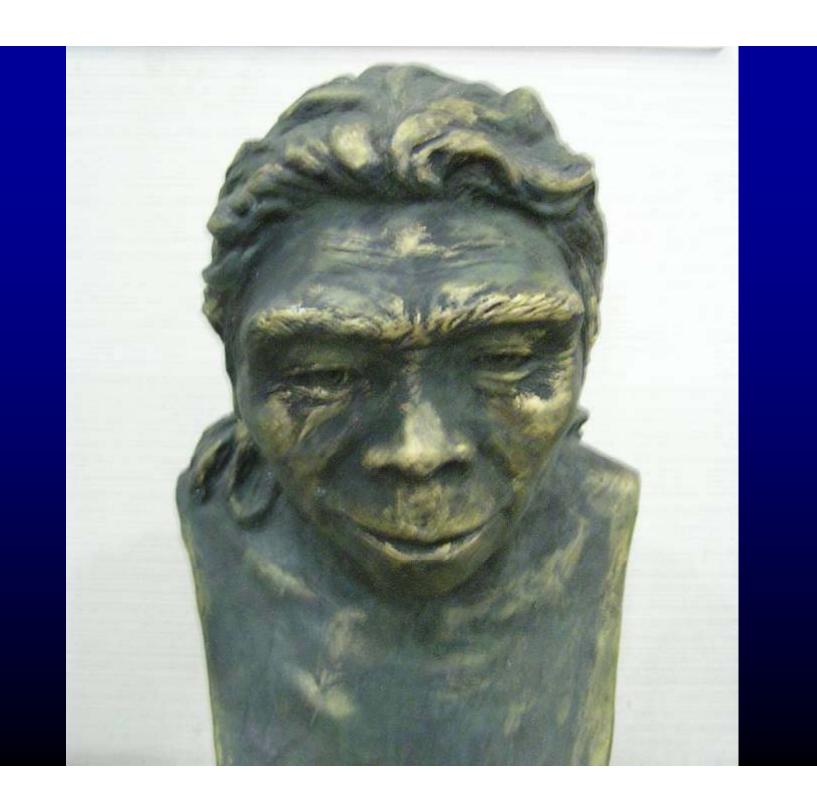
猿

北京人?

现代人!

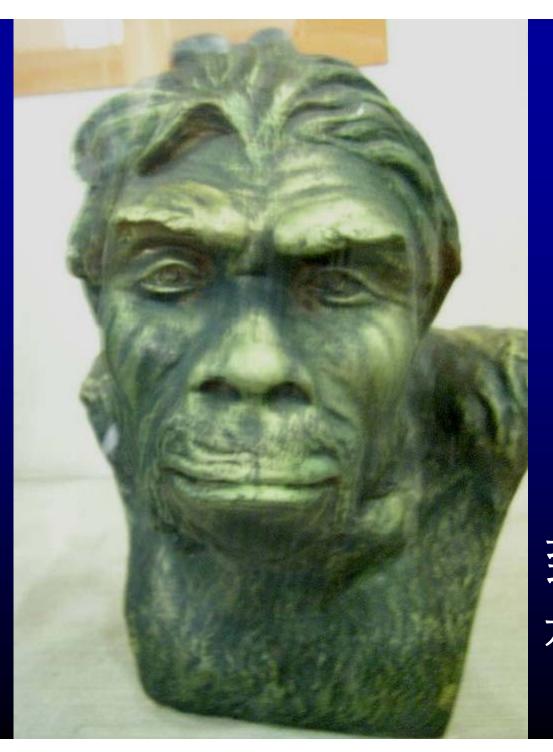






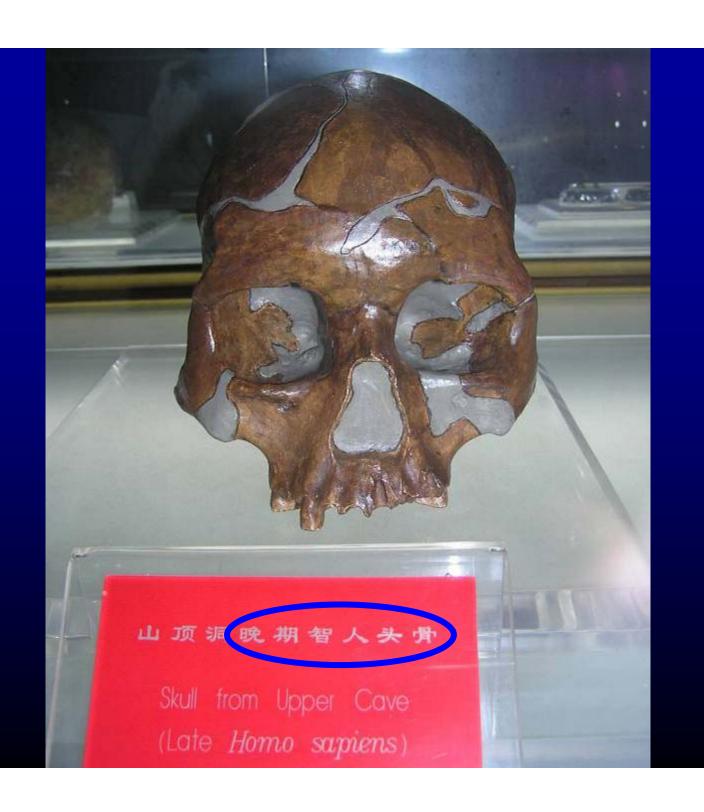






到底谁是祖先?

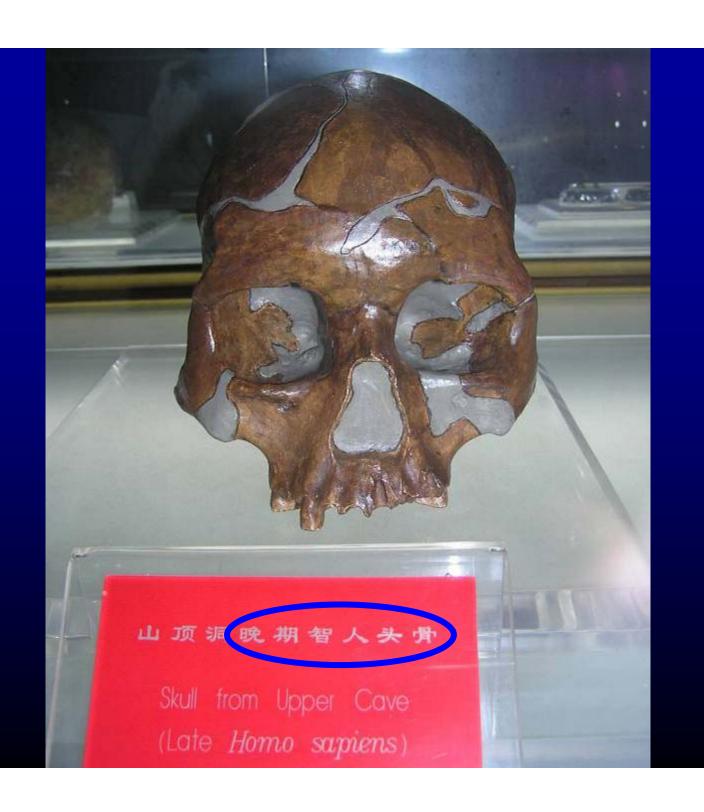




Human art









"异常厚…真不像人!" →人







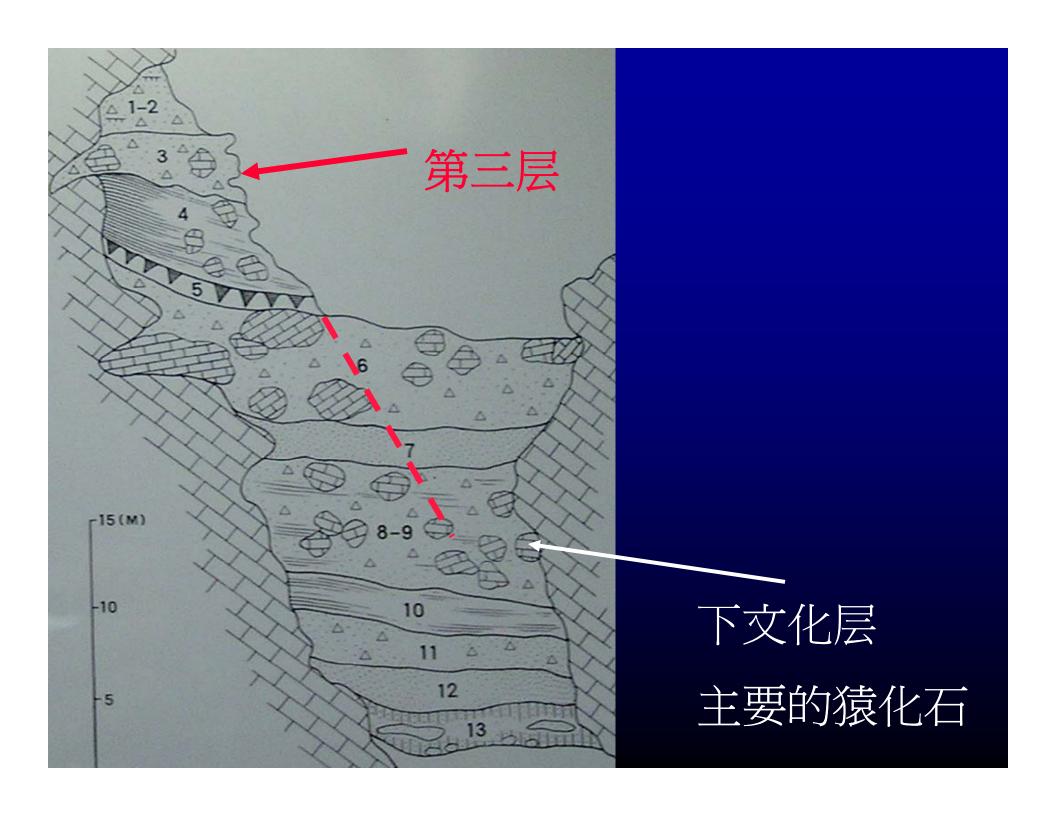






北京猿人遗址地层剖析简介

1-2层		· · · · · · · · · · · · · · · · · · ·
3 层		实主要特殊强烈安全实
4 %		* *
5 基		化层层存储.
6 怎	The same of the sa	相。大林市进程,今代
7 &		好、食性后。
8-9是		原 英華 後 大 新 一 大 五 并
10 冬		私此处理此人及支 從人智養養.
川尽		不及所致。 李化
12 层		12. 在16. NO. 10. A. A. A.
13 45		内含化5
森林县		MARKE. ROKE.





From the 3rd layer!
1966年在第三層發現北京猿人之頭蓋骨

1944年裴文中被日本宪兵队逮捕,这是被释放后在家里和子女合影 Photo of Pei Wenzhong after being arrested and affranchised by Japanese Army in 1944

1941年,在动荡的局势中,于之前所发现的北京人化石全部 丢失。裴文中对此痛心不已。而如今,虽经多方寻找,这批珍贵的 古人类化石依旧下落不明……

解放后,在党和政府的重视下,周口店的发掘工作得到恢复。1966年,在裴文中的主持下,再一次对猜人洞进行发掘,获了两块现今仅存的头盖骨化石,一块额骨,一块枕骨。同时,依年发掘积累的丰富经验,裴文中又指认出两块化石与1934公的两块颞骨(现存模型)属于同一个个体。



1934, 1936, 及1966年所發現之頭蓋骨合拼

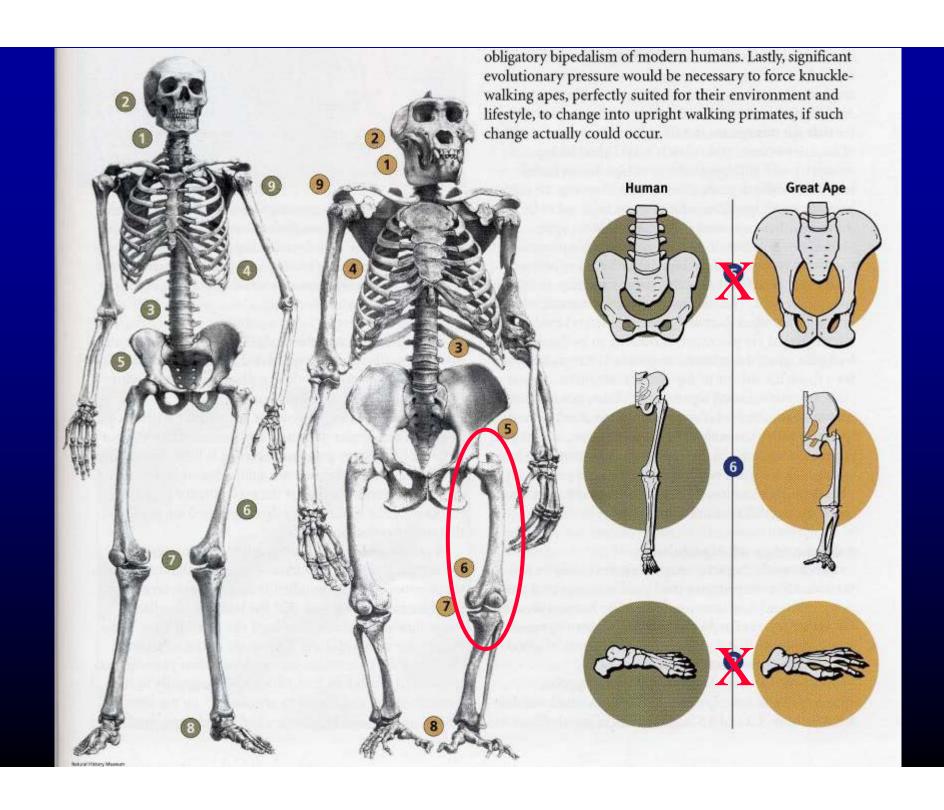
陳慶真引用 M. Boule:

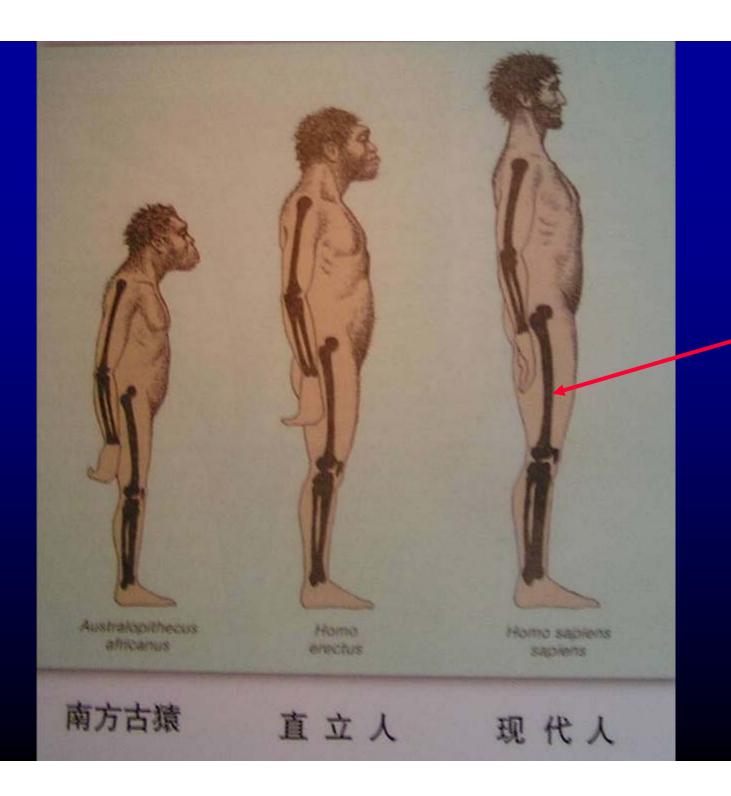
•「你们讓我遠渡重洋…就來看這 堆…被砸碎的猴子骨頭嗎?」

•「它们根本是被真正人擊殺的猴子!」



直立行走?





股须弯才立





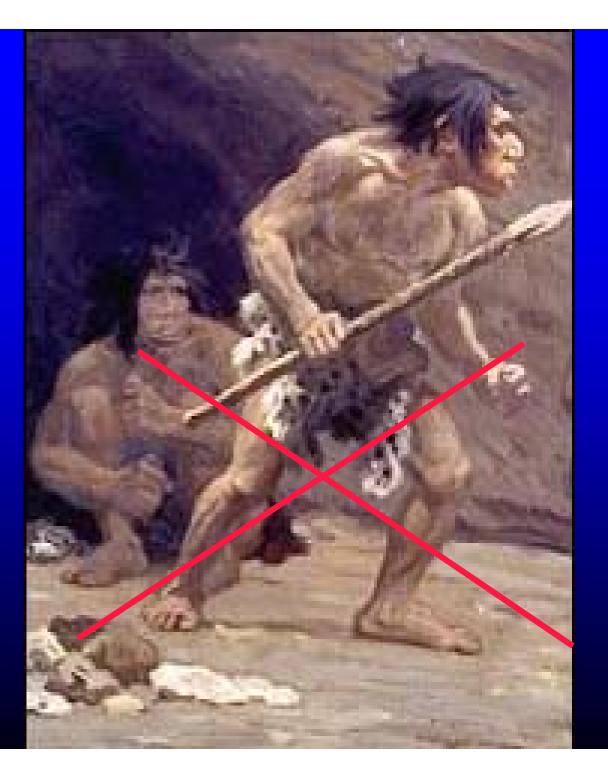
直的股骨不能直立行走



Walk upright?







Peking man walked upright?





据新华杜北京 4 月 28 白电 我图科学

我科学家首次从遗传学角度证明

Out of Africa theory

家最近公布的一项研

究结果表明,亚洲地 区不存在从首立人和

现代人的建装还化过程现代 亚洲人类可能起源于非洲。

这项基于基因水平遗传学的研究表明,当今亚洲的基因 康主要源于非洲起源的现代 人,世界各人群遗传树与现代 人类非洲单一起源说相符。这是世界上第一次从遗传学角度

证明亚洲人与非洲人的关系。

1987年,圖外学者通过研 究提出了人类起源于非洲并向 其它地方迁移的学说。圖际学术 界认为,中國科学家的这次发现 为这一学说提供了重要论据。

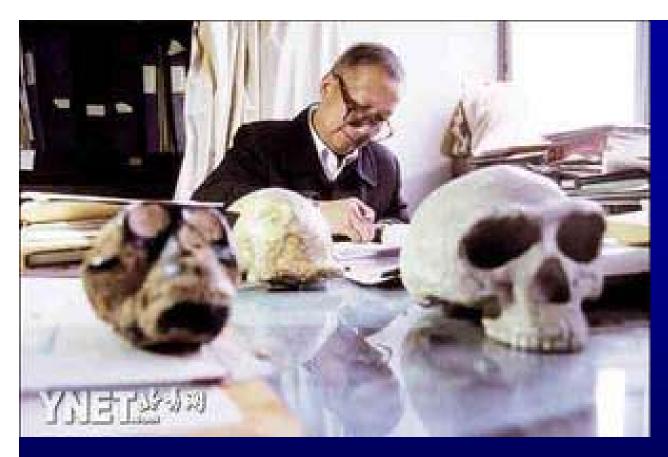
基因分析表明,非洲人进 人中國大陆后,可能是由于长 江天蟹阻断,只有少数人到了 北方.因此北方人之间差异较 南方人小得多。

科學家们认为,在亚洲虽 发现了50万年前的北京人和 170万年前的元谋人化石,但 它们与现代人没有直接的承袭 关系。亚洲古人类化石在10万

否也是 要尋找

(Nature 2009/3 封面:稱北京人77 萬年前就存在)

Fossil finds Out of Africa Tools found at Kostenki Fossil bones and tools from the Kostenki excavation: theory an ancient skull found near the South African town of the early migrations of the first fully modern humans. Bone with Lake Baikal drilled hole Kostenki 42-45K Perforated Caspian shell Small bone point Source regions Pacific Ocean Early modern human migration Atlantic · Found remains Ocean Possible 35K northern rou **Possible** Hofmeyr southern route



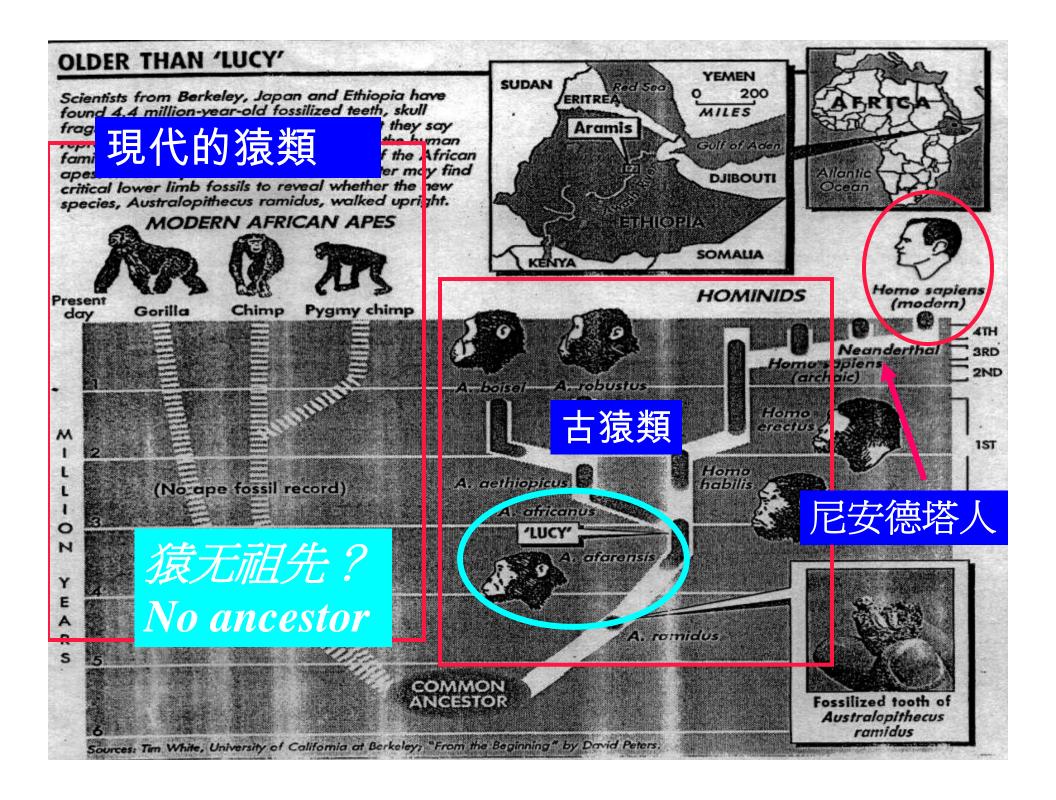
[科学发现]

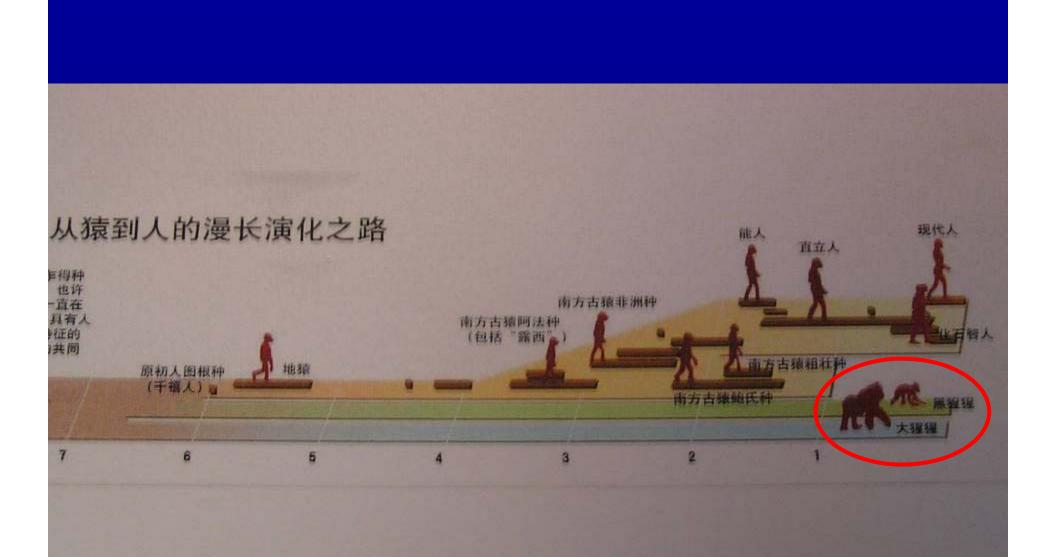
北京猿人并非中国人祖先

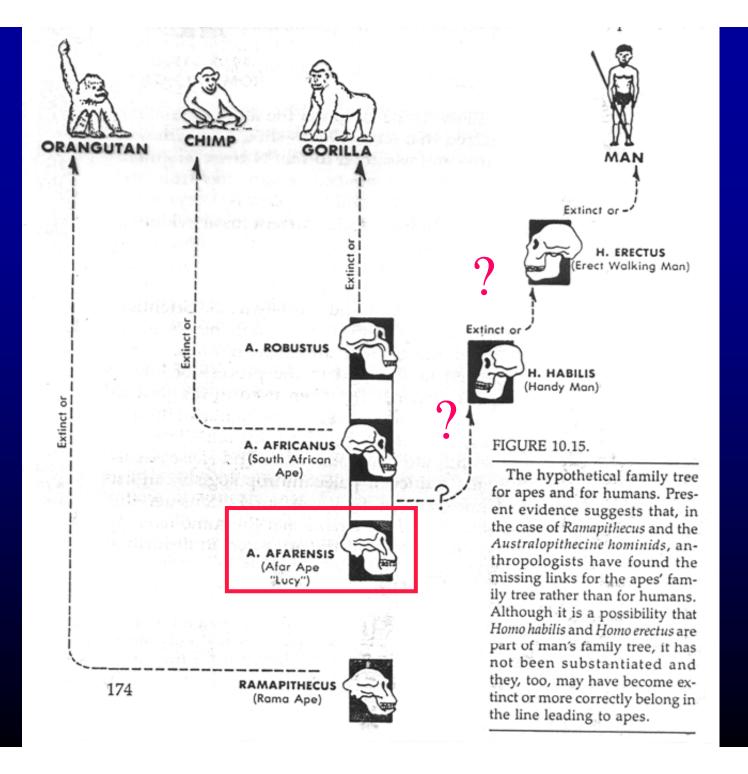
北京科技报

2005年01月14日02:13

作者:张星海









"Lucy" 3.2 百萬年

1.1 meters tall
Walking erect? 不直立

Lucy demoted to Gorilla-like

降爲大猩猩

Not direct ancestor of humans 美人祖先

PNAS 4/17/2007

It's a girl — she's 3.3 million years old, almost human

Fossils of oldest known child hominid found in Ethiopia 'in mint condition'

By Keay Davidson CHRONICLE SCIENCE WRITER

Scientists have uncovered fossils of the oldest known hominid child near the site in Ethiopia where researchers discovered prehistory's most famous female Lucy, a 3.2 million-year-old skeleton - in 1974.

The unnamed tot's remains appear to be those of a 3-year-old female that lived 3.3 million years ago and, like Lucy, is a primitive human ancestor of the species Australopithecus afarensis. It probably walked upright, but it might also have been able to climb trees, judging by its curved finger bones, a research team re-

"It would have resembled a chimpanzee more than it would have a modern human, although it's clearly neither of those said in an interview.

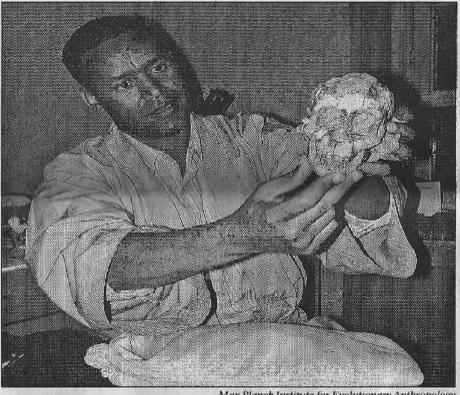
"I think it would have had a hairy body, but who's to know? Nobody knows the answer to plete" known specimen of a hominid child.

Wood agreed. "It's in mint condition, (although) some (parts) are missing that may well turn up later. This is a discovery of an incredibly well-preserved individual . . . that lived between 3 and 4 million years ago," he said.

After the find, Alemseged quietly spent the next six years carefully scraping away the sediments and analyzing the creature's fos-

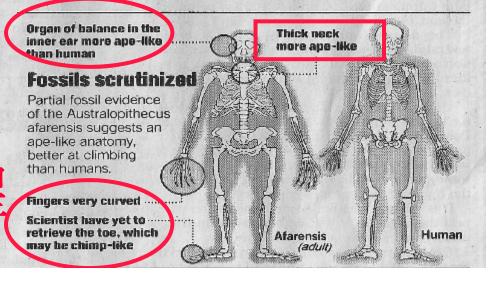
The discovery delighted Donald C. Johanson, the paleoanthropologist who stunned the world when he found the 3.2 millionvear-old Lucy fossil at Hadar, Ethiopia, a few miles from the Dikika site. "I don't think there's any guestion that (the child is) the same species as Lucy," because its features "are identical to things," Bernard Wood, an an what we see in all to the Malar thropologist at George Washing hominits," Johans in said in a ton University in Washingto, place nuterview Tuesday.

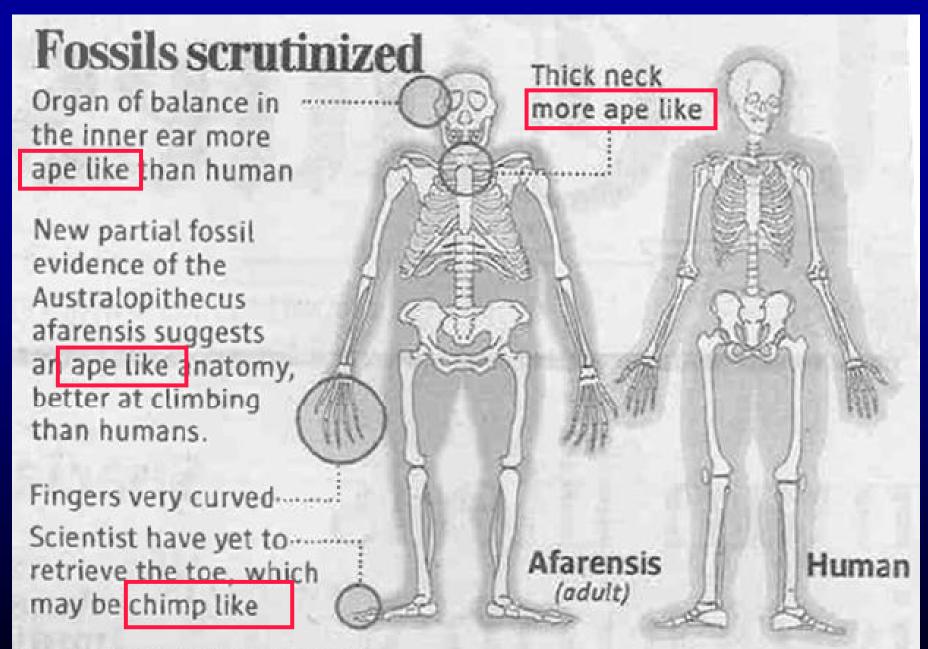
Scientists have previously found fragments of a few other Australopithecus afarensis children. "but nothing as significant



Max Planck Institute for Evolutionary Anthropology

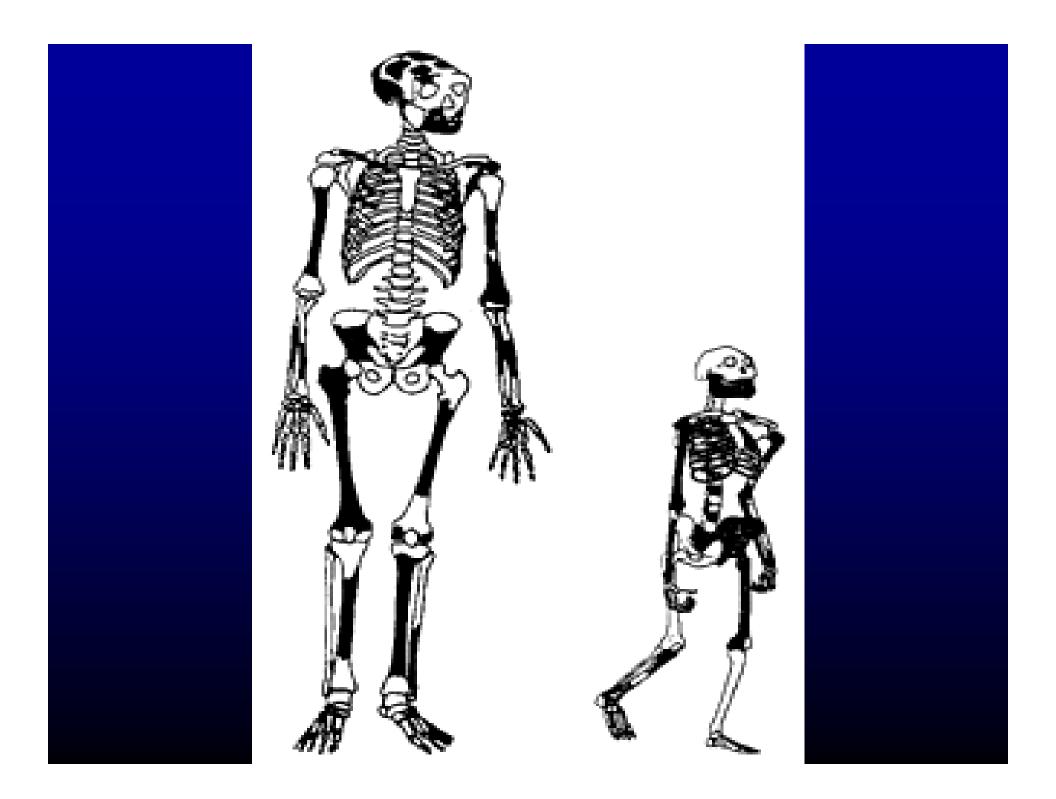
Zeresenay Alemseged found the remains in 2000 and spent the last six years analyzing them. He holds the skull of the 3-year-old.

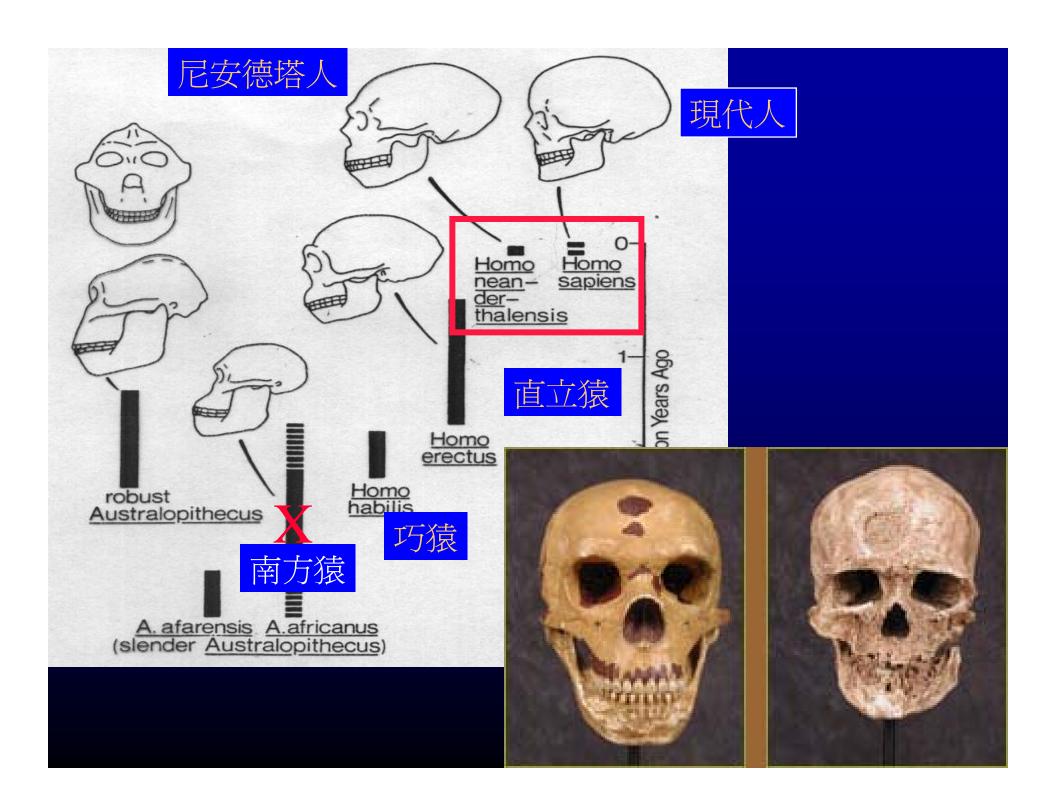




Sources: Nature, 2004; Laszla Meszaly

THE ASSOCIATED PRESS



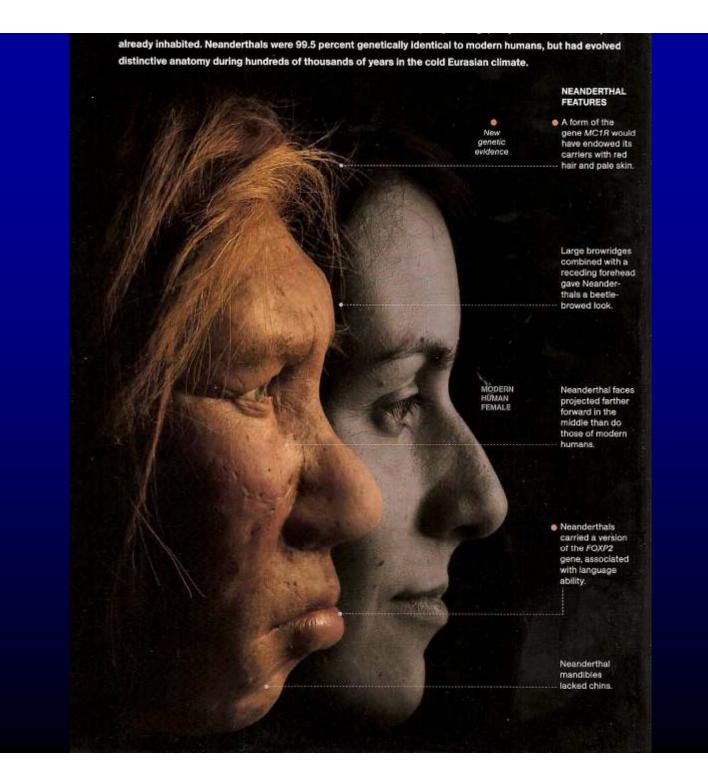




'尼人'



'尼人'







EVOLVING TOOL KIT With edges both sharp and durable, a heavy, well-used flint tool (left) probably served its Neanderthal owner as both a hide scraper and the point of a thrusting spear. Neanderthals advanced the art of toolmaking with their method of preparing carefully shaped stone cores, from which they flaked off pieces of size and weight suitable for diverse tools. Lacking projectile weapons, however, they had to engage large prey at close quarters. Modern humans brought lighter, more specialized tools to Europe—including narrow flint blades (right) that could have been hafted to a throwing spear, making hunting more efficient and less dangerous.

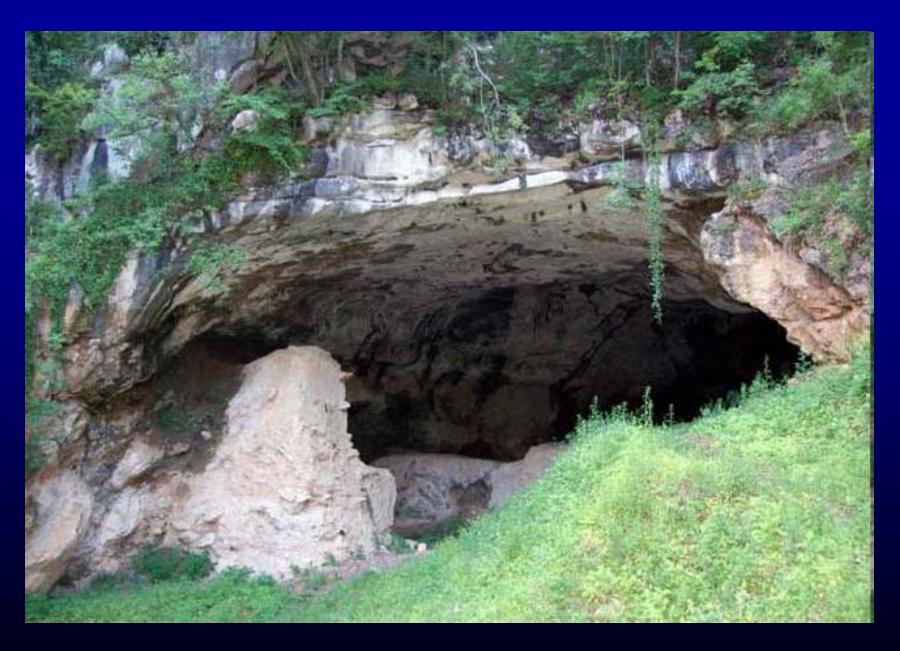
Rise and Fall of Neanderthals

Recent genetic evidence reveals that Neanderthals occupied a wider swath of territory than previously thought, settling as far east as Siberia (top). Some 45,000 years ago, anatomically modern humans from Africa migrated into Eurasia (bottom). Climate swings and competition with the newcomers may have combined to push Neanderthals into a few outposts before they went extinct

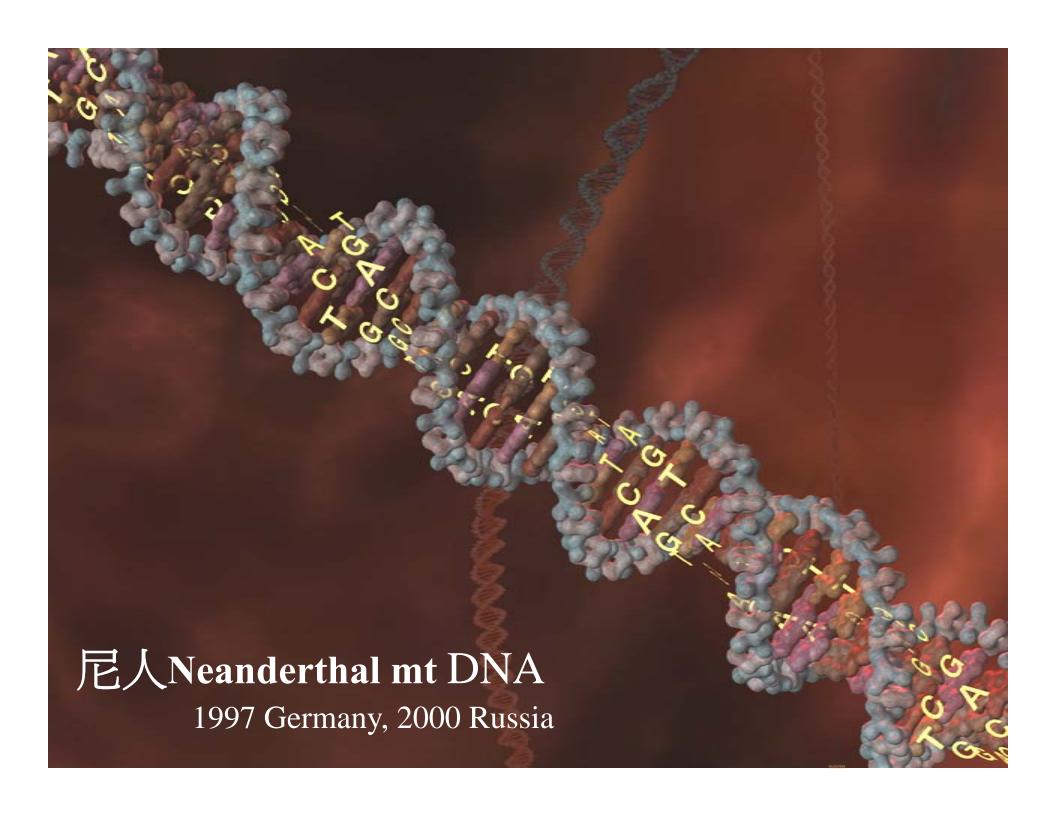








Photograph outside the Vindija cave in Croatia. Please credit Johannes Krause, Max-Planck-Institute of evolutionary Anthropology.



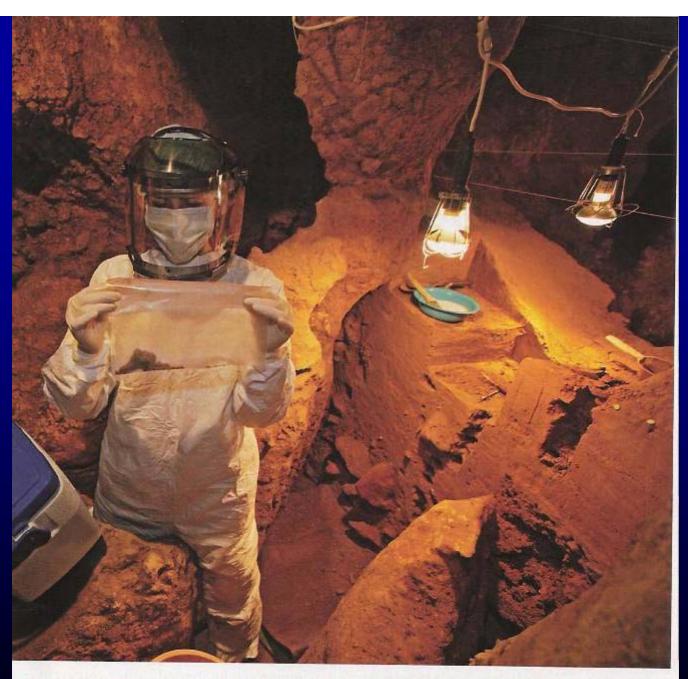
DNA from 3 Neanderthals from Germany to Russia showed it was too distinct to be related to humans...

與人距離太遠

...we can't find any evidence of genetic material being passed from Neanderthals to modern humans

並無傳 DNA 給人類的跡像

• • • • •



PRECIOUS FOSSIL Suited up to avoid contaminating her find, researcher Araceli Soto Flórez bags a Neanderthal bone from El Sidrón cave in Spain. Fossils uncovered here have yielded faint traces of ancient DNA. Genetic analysis provides evidence for red hair, and perhaps a capacity for speech.





GENETIC ESSENCE Taking DNA from a 38,000-year-old leg bone fragment (bottom) found in Croatia, scientists are spelling out the complete Neanderthal genetic code. Results from the sample (top, on ice) suggest that Neanderthals and modern humans are separate species, but do not rule out some interbreeding.



Neanderthal (nuclear) DNA ... 尼人細胞核 DNA 11 October 2006

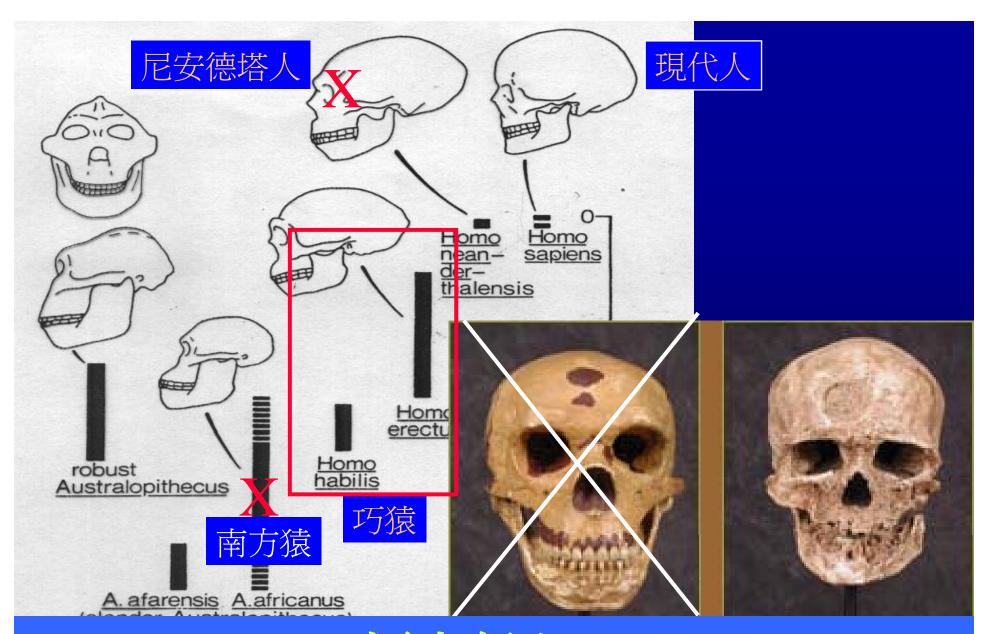
NewScientist.com news service

Neanderthals did not contribute substantially to the modern human genome

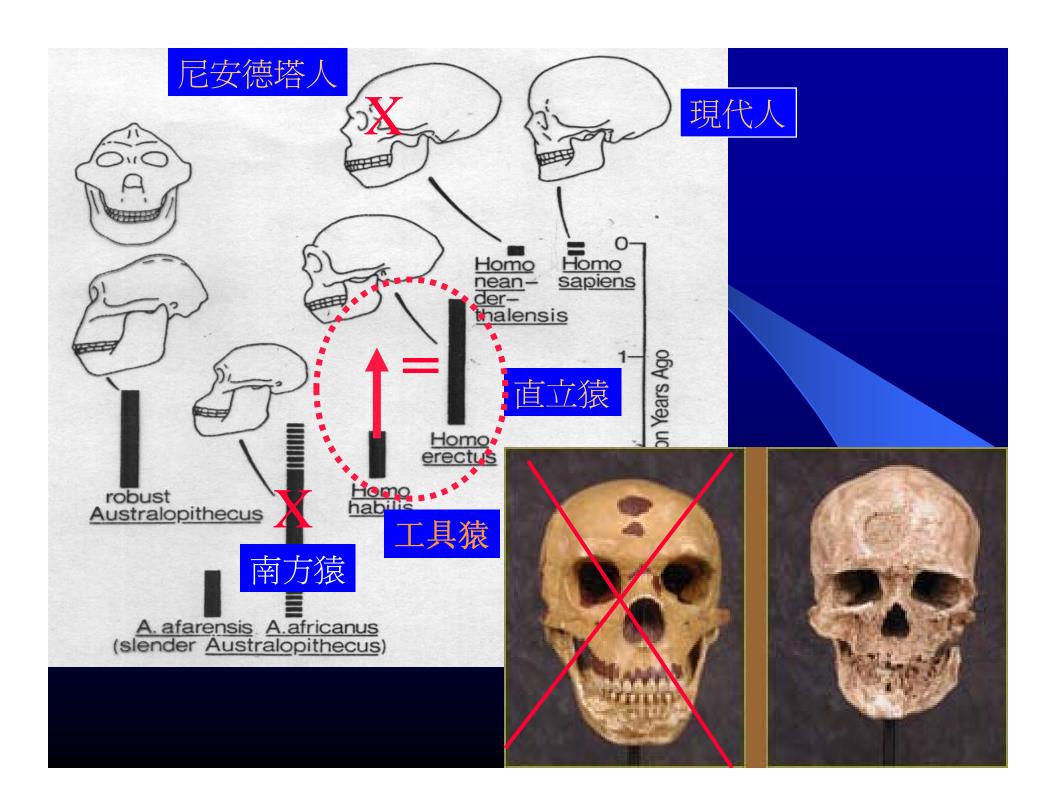
Richard Potts, Smithsonian Institution

尼人給人類的基因組並無大貢獻

Diverging Lineages 700,000 Ancestral modern human and Neanderthal populations begin to diverge The common ancestor of modern humans and Neanderthals may have been Homo heidelbergensis (below), though some scientists consider it a European species ancestral to Neanderthals alone. Some interpreeding possible, but decreases through time 370,000 Estimated date of lineage separation, based on genetic data 195,000 Earliest known anatomically modern human fossil 40,000 Earliest modern human 28,000 fossil in Europe years ago? Last Neanderthals Present

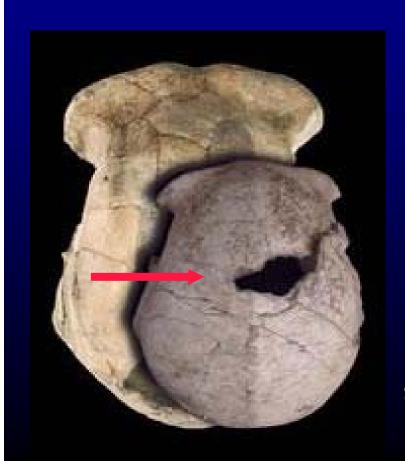


極大信心! Need a lot of *faith to believe!*



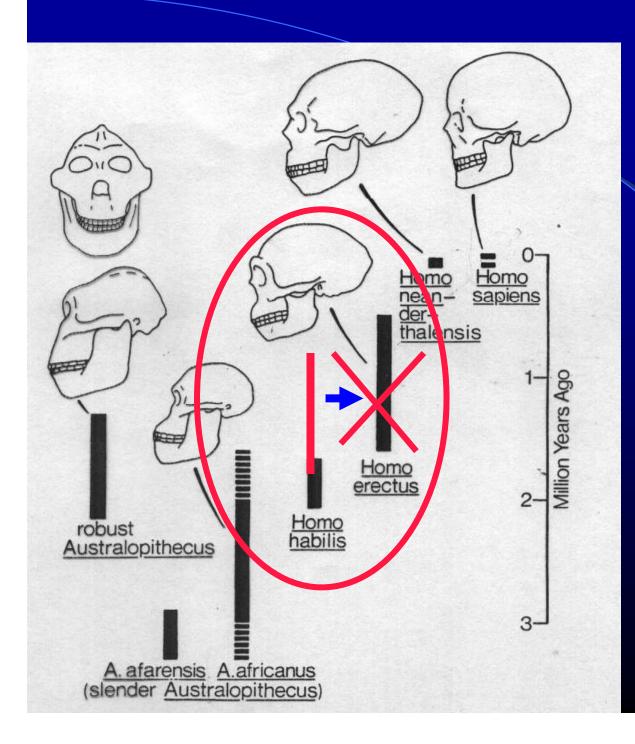
Published online 8 August 2007 Nature News

Twin fossil find <u>adds twist</u> to human evolution 兄弟的新麻煩



Homo erectus had an unexpected neighbor, and a surprising lifestyle too.

相先腦更大 H. erectus skulls considerably smaller.

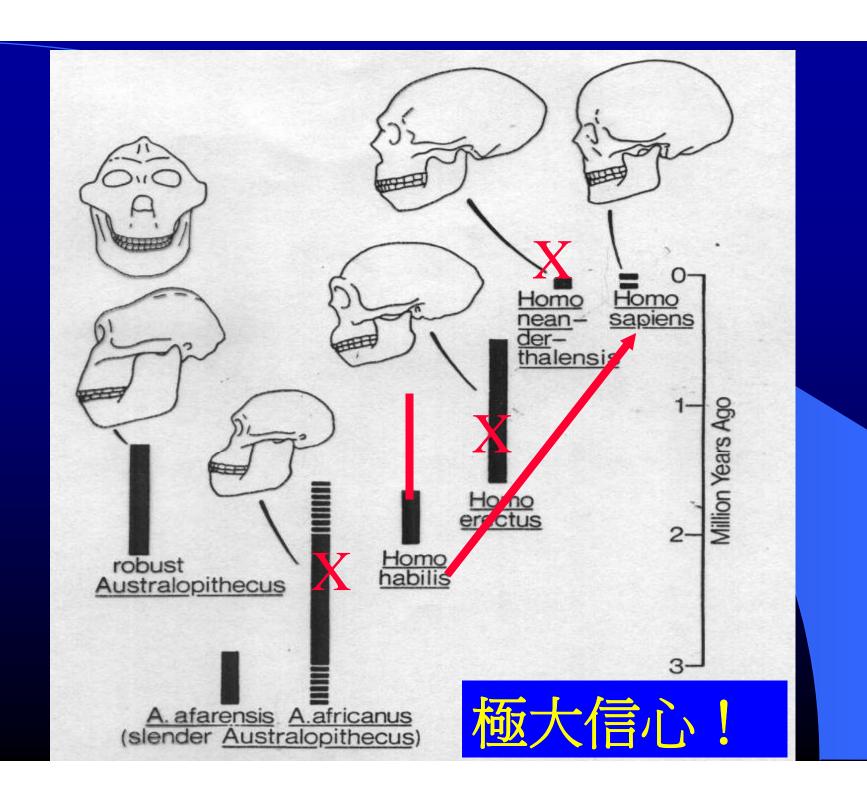


"co-existence (50,000 years),

unlikely that Homo erectus evolved from Homo habilis"

said Professor Meave Leakey

李奇夫人



Henry Gee, the chief science writer for Nature writes,

• "The intervals of time that separate fossils are so huge that

化石在時間上隔離太遠

we cannot say anything definite about their possible connection through ancestry and descent."不能確定是祖先或後代

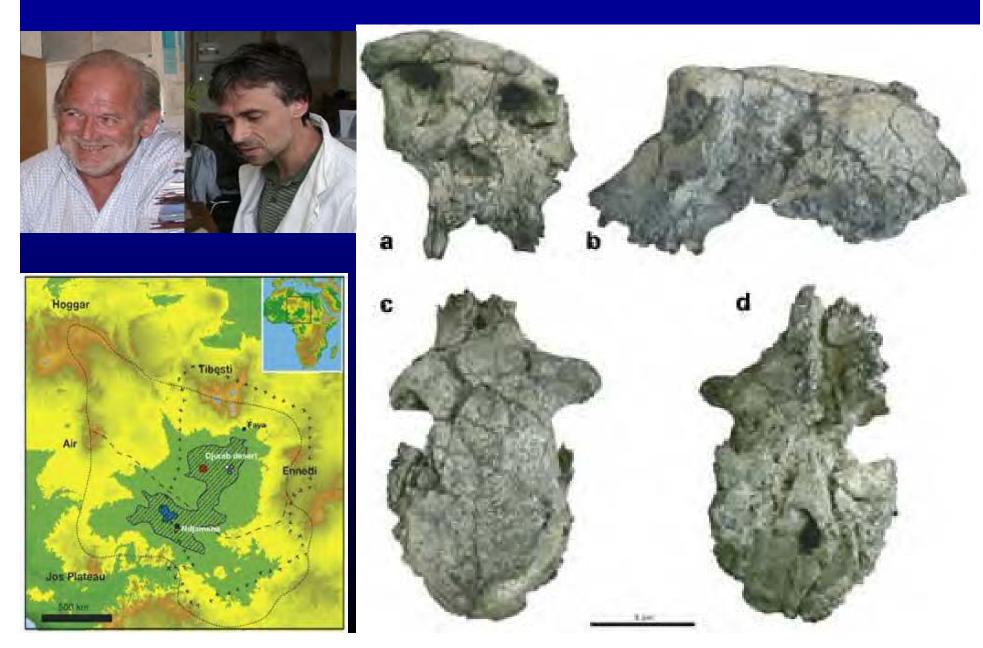
- Why our species appeared so suddenly,
 我們为何如此突然出現
- no fossil hominid species can be established as our direct ancestor.

又不能建立任何直接的祖先

- The appearance of human beings—is that a miracle?" Naturally!
- ●人類出現是神蹟嗎? (當然!)



French in central Africa:





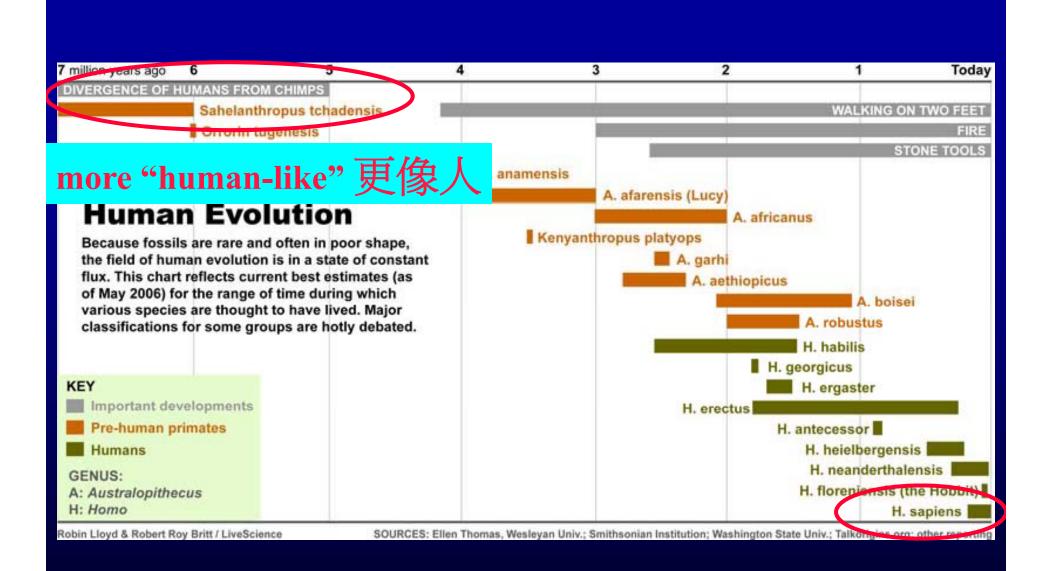
Female Chimp?

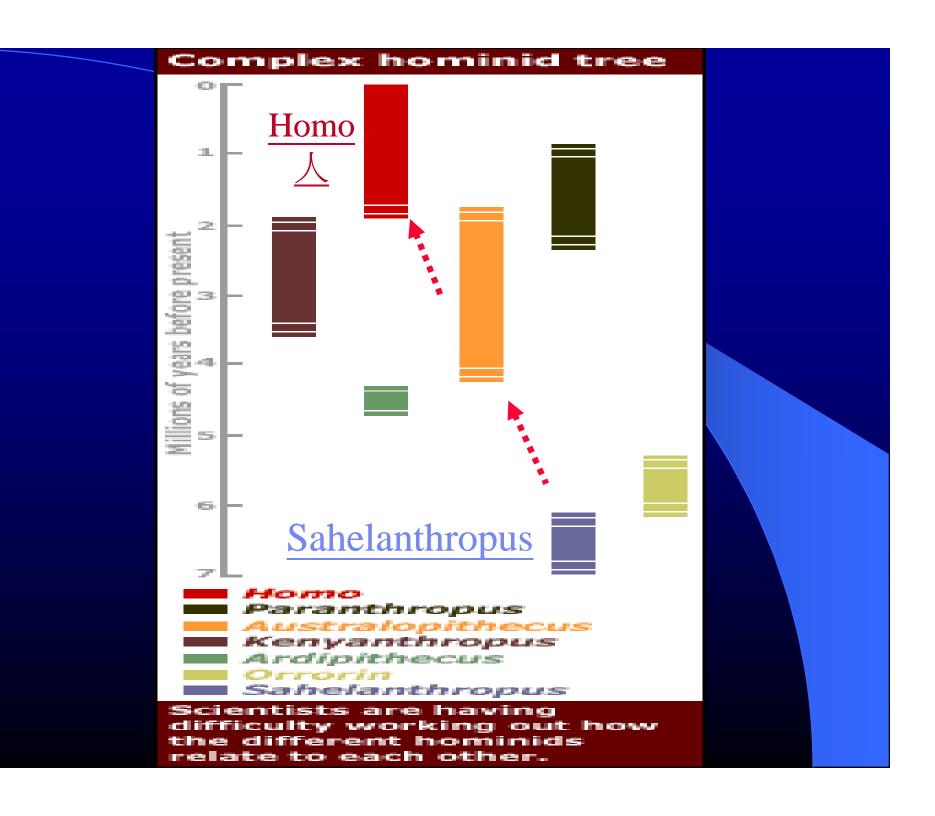


French scientist, Michel Brunet:
Sahelanthropus "沙丘人"
7 million years old 七百万年前
more "human-like" 更像人

Nature admitted that "New-found skull could sink our current ideas about human evolution."

能打倒目前人類進化的思想





 Darwinist scientists confess that this fossil has <u>rocked</u> the very foundations of the theory of evolution.

摇動進化論的基础

● Daniel Lieberman (Harvard): "This [discovery] will have the impact of a small nuclear bomb." 其威力有如一小核弹

Henry Gee, editor of Nature

"The very idea of the missing link, always shaky, is now COMPLETELY UNTENABLE."

本來就摇摇欲墜, 现在完全站不住了

Henry Gee (Nature 編者):

在任何其他科學來說,都不夠証據,不能下定論的。

Not enough to make scientific conclusions

現有結論科學嗎?

人從那裡來? 科學沒有漸進的証據! No scientific proof of gradual human evolution!

學說紛紜 all theories

信不信由你! Believe it or not!

人體應像猿猴!? DNA 99, 97% → 95%?

共同祖先?



相似性的解释: Similarities: Interpretations

• 進化Evolution

●創造Creation

共同祖先
Common Descent
随機、偶然
Random, chance
無設計,無神
No design, no God

共同設計
Common Design
可随機、有偶然
Can be random
同一設計,有神
One design, by God

有其一個的相似性

基因组

己降到 < 70%了!

基因组的基因字母並列

- ●24 億字母÷31 億字母 = 76%
- ●减一些缺口導致了 3%
- ●單個"字母"差異
- "副本数量差異性"

1.23%

2.7%

< 70% 相似

人爲萬物之靈

聖經:人是照神的形像、樣式造



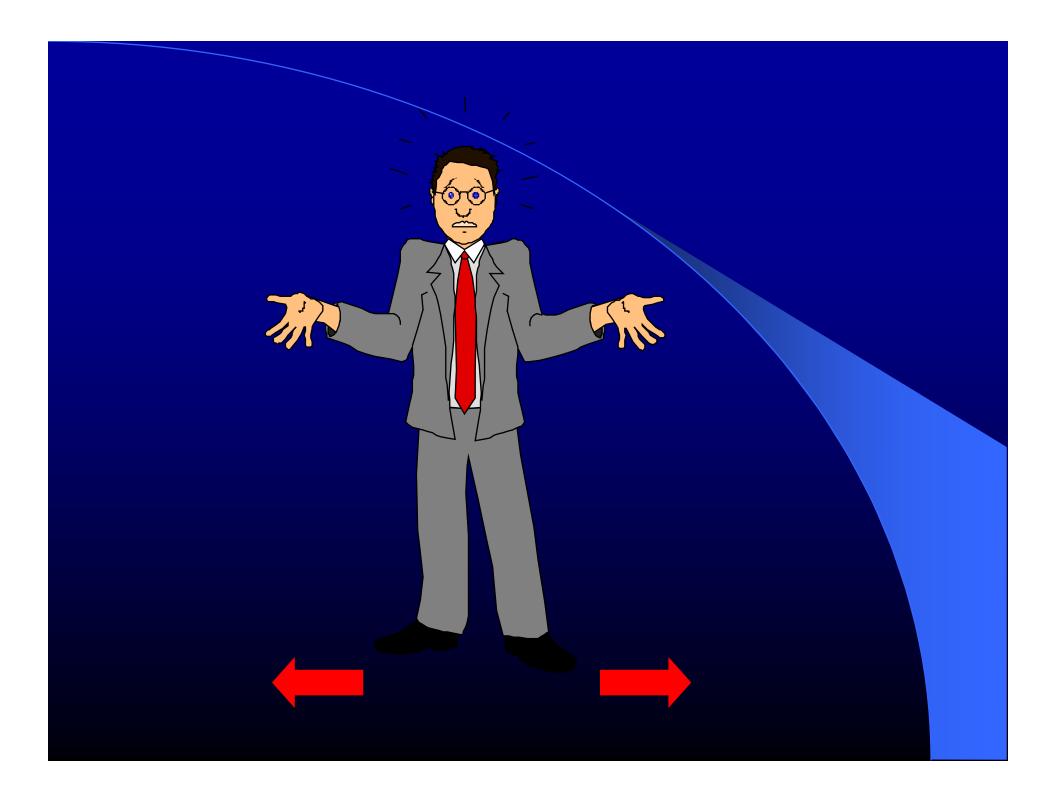
Living Soul with a body!

肉身只是暫時的載體! Body is only a medium!

现在那万程三个?

有沒有漸進的証據? Any scientific proof of gradual human evolution!

high school students to "<u>analyze</u> and <u>evaluate</u>" the evidence for major evolutionary concepts 美國學生要 "分析和評估" 進化思想的証據!



對進化論正確的看法

- 1. 生物學唯一、初步、綜合性理論
- 2. 可用於種、屬、科的層面:

微進化 micro-evolution 🗸

- 3. 不能用於界、門、綱的層面: <u>廣進化 macro-evolution X</u>
- 4. 接近 "各從其類"!

不要盲目反進化、反科學!

需要更多中國人投身生物學!

