

What is Anthropology?

- Holism
- United by Culture

"The sum total of traditions, values, and beliefs that groups of people learn and share through symbols"

Biocultural approach

• The study of

 The study of human societies, especially in a cross-cultural context



- Ethnology
- Ethnography
- Applied Anthropology

Archaeology

- material culture of past peoples
- Artifacts
- Prehistoric
- Historic



Linguistic Anthropology

- language
- structural (descriptive)
- sociolinguistics
- historical linguistics

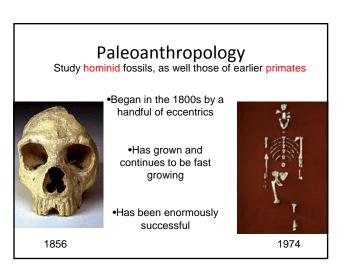


What is Physical Anthropology?

- Also called biological anthropology
- "Human biological evolution and biocultural variation."
- · Closest living ancestors as well
- 1) humans share phylogeny as hominids
- 2) we all have a unique ontogeny based upon our genes and environment
- Human genome is 20-25K genes!

Biological Anthropology Subfields

- Paleoanthropology
- Human Biology
- Primatology
- Skeletal Biology (physiology, growth and development) and Osteology
- Paleopathology
- Molecular anthropology (genetics)
- Forensic Anthropology





Paleopathology

Causes?





Paleopathology

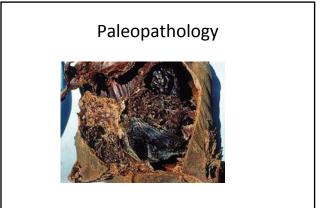
Warning: Some may be alarmed by pictures of mummified remains with diseased tissue.

Some skeletal remains with deformities and alterations may alarm as well.

Paleopathology

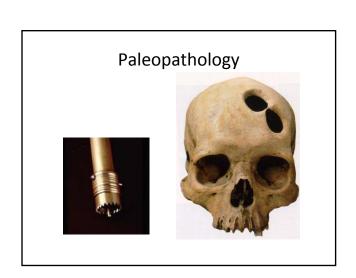
Adult male mummy from the Cabuza culture (Northern Chile about 450 AD) with emphasema.

Too much smoking?



Paleopathology

trepanation



Paleopathology

Head elongation and feet binding.

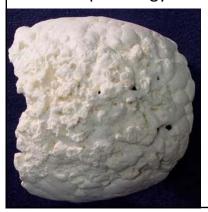
Often done to elites, but not exclusively

Paleopathology

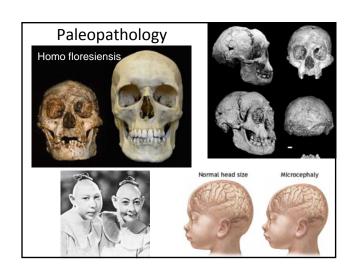




Paleopathology



Tertiary Syphillis

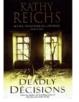


Forensic Anthropology

Identifying bodies, investigating war crimes, publishing crime novels to make a living.







Primatology

primates

- Genetic similarities
- Behavioral complexities
- •Ecological adaptations



Primatology

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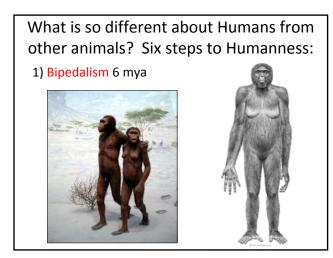
Human Biology

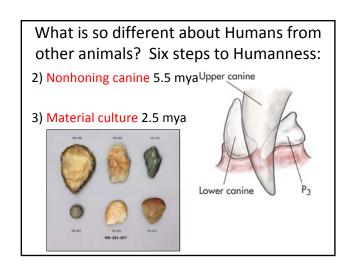
- •human growth and development, nutrition •adaptation to environmental extremes
- •human genetics, variation



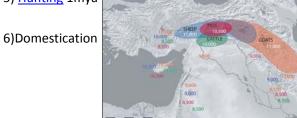








What is so different about Humans from other animals? Six steps to Humanness:
4) Speech (2.5 mya?)
5) Hunting 1mya



How We Know What we Know: The Scientific Method

- 1) Empirical observations to gather data
- 2) Use data to test hypotheses
 - explain, predict, can be refuted (falsified)
- 3) Hypothesis are rejected or confirmed
- 4) A theory has been tested over and over and has not been disproven

Scientific Laws are observations that are infinitely repeatable

Darwin hypothesized that human bipedalism originated in arboreal locomotion

Data was based on anatomical studies of morphology and empirical evidence of human and nonhuman locomotion



grassland vs. woodland hypotheses were competing hypotheses