

**FINAL EXAM Review- PHYSICAL ANTHROPOLOGY**

**Date: December 16, 2015**

Please bring an #882 Scantron and a #2 pencil; there will be no essays on the final exam. The exam will draw from questions discussed in quizzes 10-15, lectures 9-14, chapters 6-11, assigned readings (linked to class website), class activities, discussions, power point presentations and videos. Topics to Be Familiar With:

Fossil Dating Techniques:

- Potassium/Argon Dating
- Carbon 14 Dating
- Fluorine Analysis
- Luminescence
- Stratigraphy

- Location of earliest primate fossils
- Information available from fossils, animal bones, tools
- Trephination
- Taphonomy
- Foramen Magnum
- Bipedalism (importance in human evolution)
- Parts used for sexing a human skeleton
- Laetoli, Tanzania footprints
- Fossil lumpers vs. splitters
- First hominid fossils discovered

Fossil Hunters:

- Raymond Dart
- Eugene Dubois
- Donald Johanson
- Mary and Louis Leakey
- Richard and Mauve Leakey

Fossil Hominids (how they got their names, cranial capacities, age, where found)

- Orrorin Tugenensis
- Sahelanthropus tchadensis
- Ardipithecus ramidus
- Australopithecus anamensis
- Australopithecus afarensis (Lucy)
- Homo heidelbergensis
- Homo erectus (Peking Man & Java Man)
- Homo ergaster
- Homo floresiensis
- Homo habilis

## Neandertals

- When first discovered?

- Diet?

- Genetic Relationship to Modern Humans

- Interaction with Archaic H. Sapiens (Cro-Magnons)

Hominin Tool Traditions: Acheulean, Mousterian, Oldowan, Aurignacian

Replacement Model vs. Multiregional Model for Human Evolution

When H. sapiens first arrived in Australia

Presence of Neanderthal DNA in modern humans

How humans entered the New World

Piltown Man Hoax

Savanna Hypothesis

Precision grip

Cooperative Provisioning Model

Observational Learning

EEA (Environment of Evolutionary Adaptation)

EQ (Encephalization Quotient)

Impact of environment on growth and development

Women's contribution to subsistence in different world regions

Refutation of the "Obstetric Dilemma"

Skills involved in food processing amongst contemporary Hunter gatherers

Diets of early hunter-gatherers

Observational Learning

Human Development Index

Gene Therapy

Inuit Diet

Race

- Adaptations to UV light

- Factors responsible for skin color

- Cultural responses to phenotype variation

## Diseases

- Eradicated by late 20<sup>th</sup> c.

- Facilitated European Conquest of Mexico

- Spread of disease from animals to humans (and vice versa)

- Relationship between trans-fats and heart disease

- Cultural Responses to disease

- SARS, Ebola, HIV, Herpes

- Diseases caused by recessive genes

- Impact of migration on skin cancer