

## BIO 2150- Chapter 24 Notes

### I. Human Evolution

- A. **Hominins:** humans and their immediate ancestors.
- B. Hominins are the sister clade of the chimpanzees and bonobos.
- C. Hominins include species in lineages that led to modern humans.
- D. The earliest hominin fossil was found about six million years ago.
- E. The oldest hominin fossils are found exclusively in Africa.

### II. Bipedalism

- A. Bipedalism is one of the major changes that allowed humans to evolve from apes.
- B. Bipedalism caused skeletal changes in:
  - 1. Skull
  - 2. Spine
  - 3. Legs
  - 4. Feet
- C. Australopithecus Afanesis, AKA Lucy, was the first fully bipedal hominin

### III. Body Trends in Hominins Over Time

- A. Hominins increased their body size.
- B. Hominins increased their brain size.
- C. Sequencing of Neanderthal DNA supports Neanderthals as a sister clade to humans.