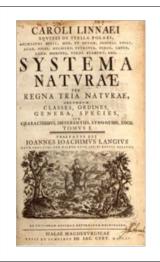
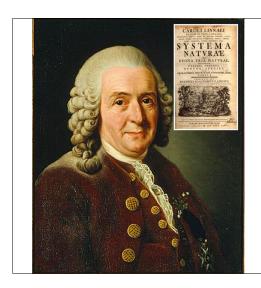
## Sources of Evidence



"Deus creavit, Linnaeus disposuit."



1750's









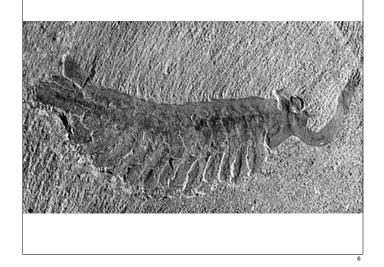




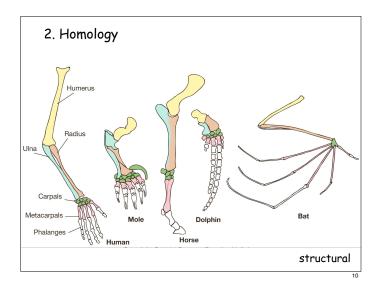


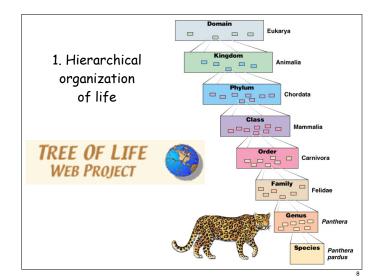


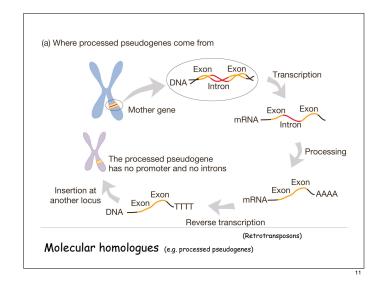
"The flowers' leaves. . . serve as bridal beds which the Creator has so gloriously arranged, adorned with such noble bed curtains, and perfumed with so many soft scents that the bridegroom with his bride might there celebrate their nuptials with so much the greater solemnity..."

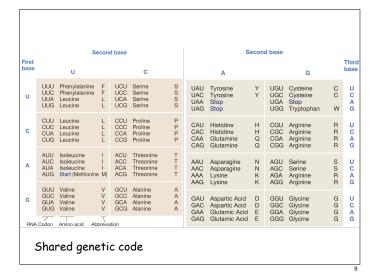


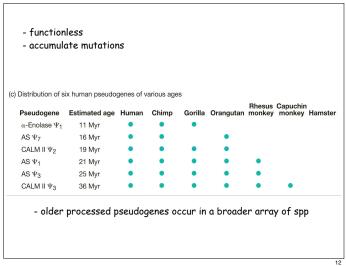


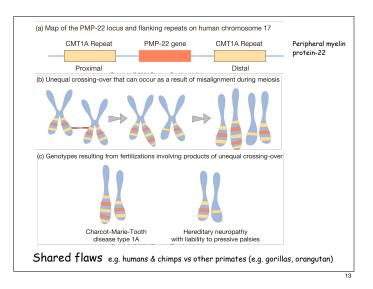


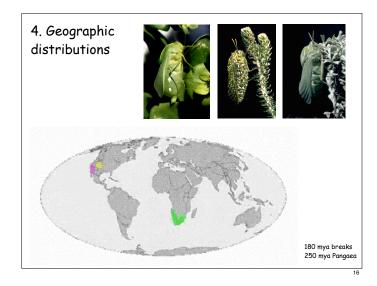


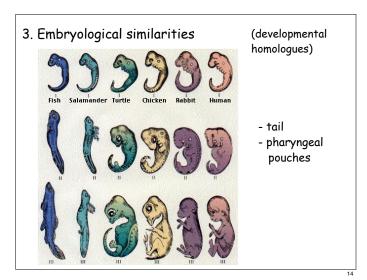


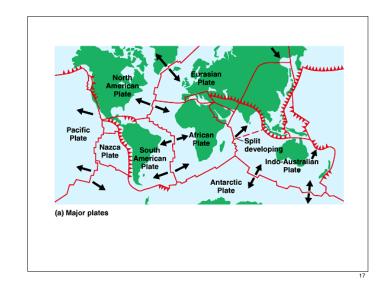


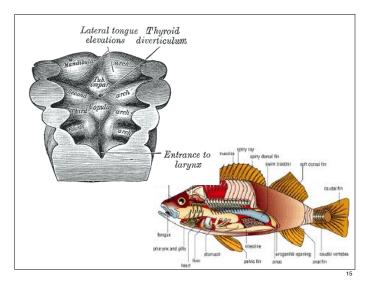




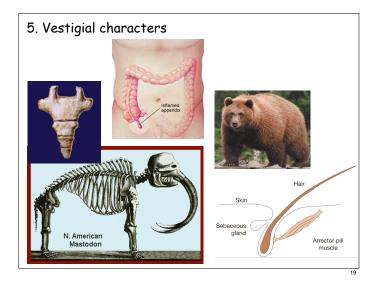


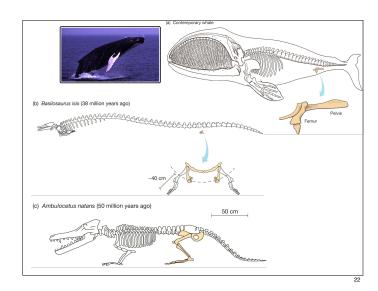


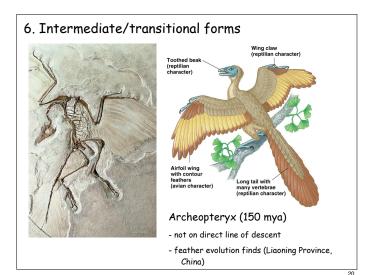


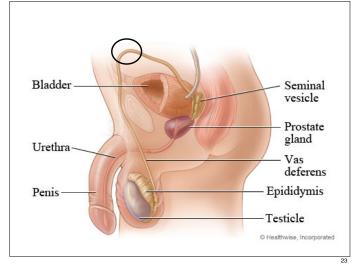




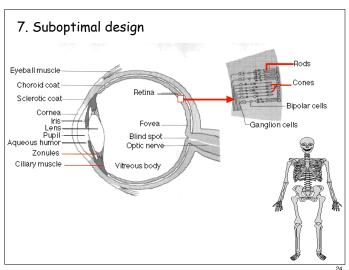


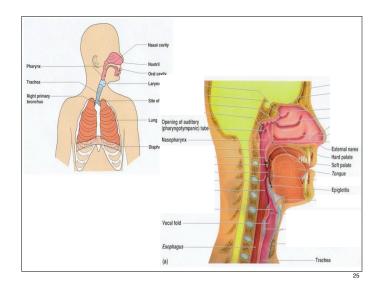














8. Convergence
- different (more efficient?) designs for same function

Optic nerve

Vitreous body

Cuticular lens

Vitreous body

Vitreous body

Vitreous body

Vitreous body

Vertebrate

Retina

Retina

Retina

Retina

Microvillar photoreceptor cell

Cephalopod (octopus & squid, but nautilus.... pinhole)



1. Relatedness of life forms

2. Change through time (in/direct)

3. Great age of earth (Geological time scales, radiometric dating)

A

Morphological divergence

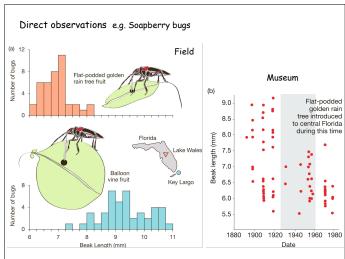
1. Relatedness of life forms

a<sup>10</sup>



3







http://www.nature.com/nature/ newspdf/evolutiongems.pdf

## 15 Evolutionary Gems

- Gems from the Fossil Record 1. Land-living ancestors of whales 2. From water to land

- 3. The origin of feathers
  4. The evolutionary history of teeth
  5. The origin of the vertebrate skeleton

- Gems From Habitats
  6. Natural selection in speciation
  7. Natural selection in lizards
  8. A case of co-evulution
  9. Differential dispersal in wild birds
  10. Selective survival in wild guppies
  11. Evolutionary history matters

- Gems From Molecular Process
  12. Darwin's Galapagos finches
  13. Microevolution meets macroevolution
  14. Toxin resistance in snakes and clams
  15. Variation versus stability