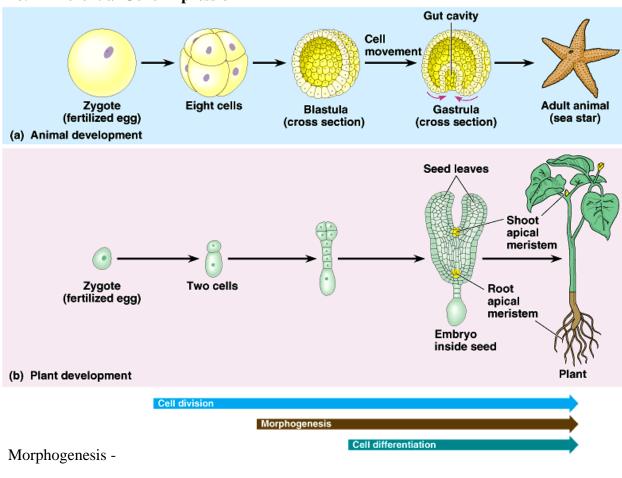
#### AP Biology

Development, Hox-genes, and gene regulation

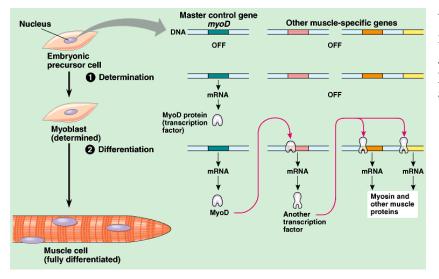
Name \_\_\_\_\_



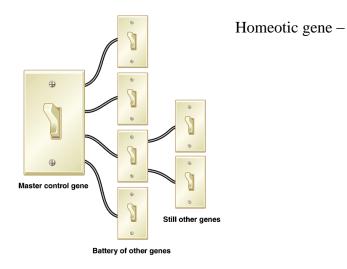
#### **18.4 Differential Gene Expression**

Cell differentiation -

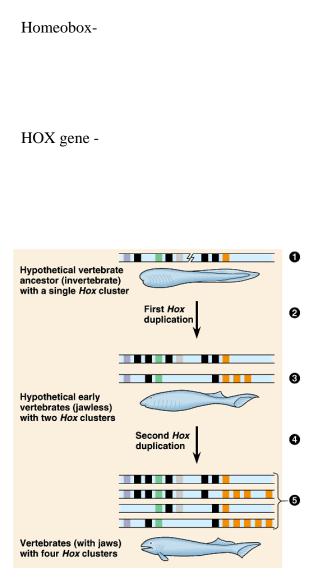
Apical meristems -

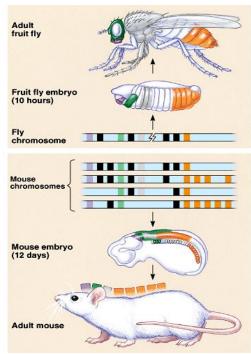


What would happen if a mutation in the myoD gene resulted in a myoD protein that could not activate the myoD gene?

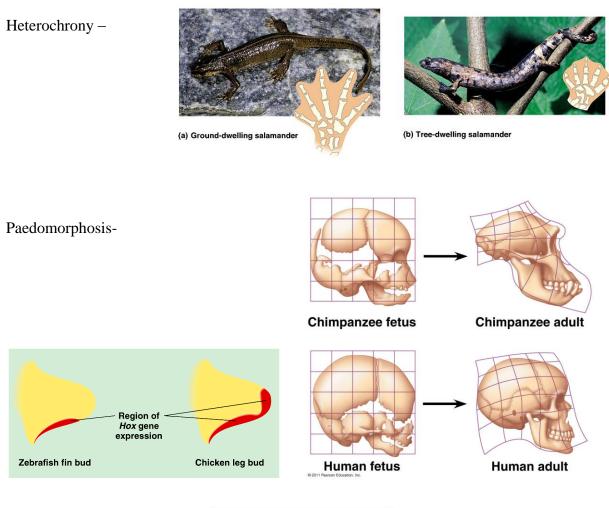


## 21.6 Genome Sequences give clues about development and evolution





## 25.5 Major changes in body form



What type of effect does a single change in one of the following cause:

- 1) regulatory gene
- 2) Hox Gene
- 3) Gene Expression Timing

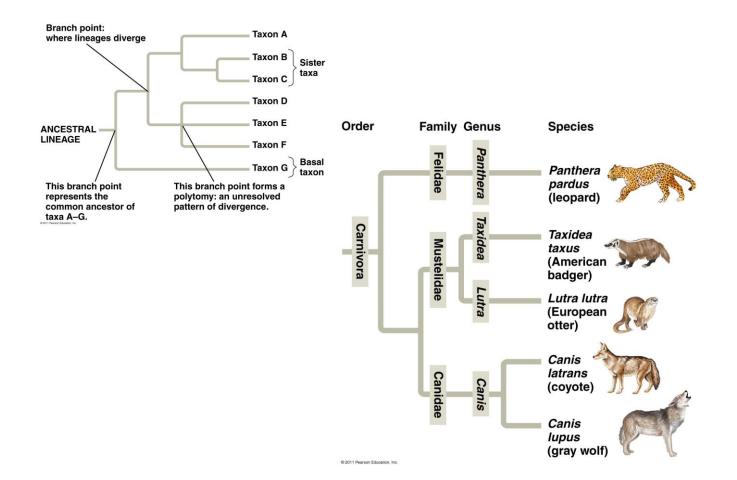


HoxC6 gene expression correlates with limbless regions.

AP Biology Ch 26 – Phylogeny and the Tree of Life

26.1 Phylogeny and the tree of life Phylogeny -Species: Panthera pardus Genus: Systematics -Panthera Family: Felidae Order: Carnivora Taxonomy -Class: Mammalia Phylum: Chordata Taxon – Kingdom: Animalia Domain: Bacteria Domain: Archaea Domain: Phylogenetic Tree -Eukarya © 2011 Pearson Education

Name \_



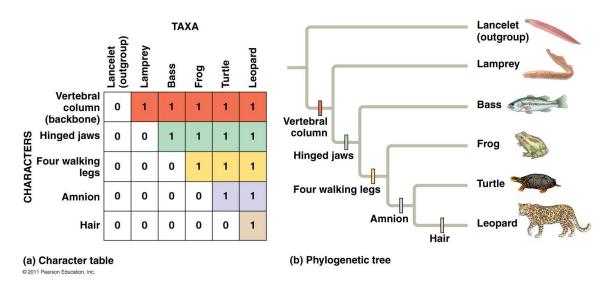
#### **26.3 Shared Characters and Cladistics** Cladistics –

Clade –

Shared ancestral Character -

Chared Derived character -

Outgroup -



## DRAW A phylogenetic tree for Question 9 part (a) on pg 555.

# **<u>26.5 Molecular Clocks</u>** Molecular clock -

