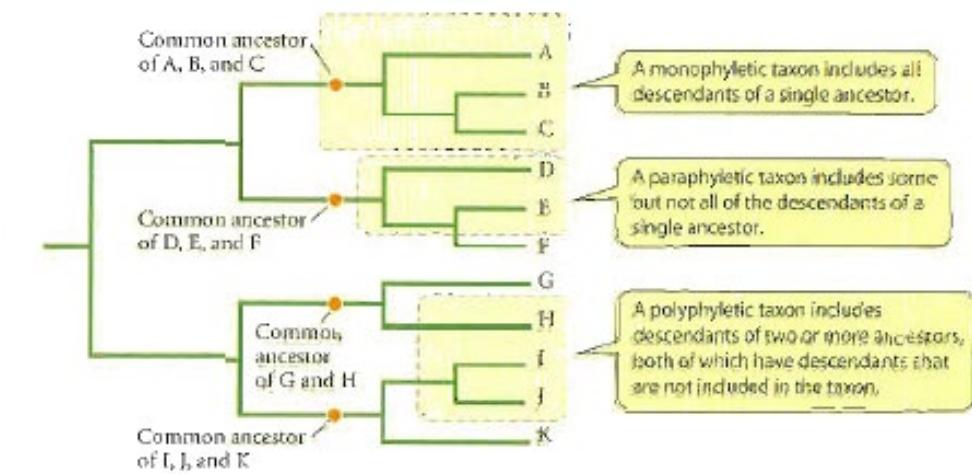
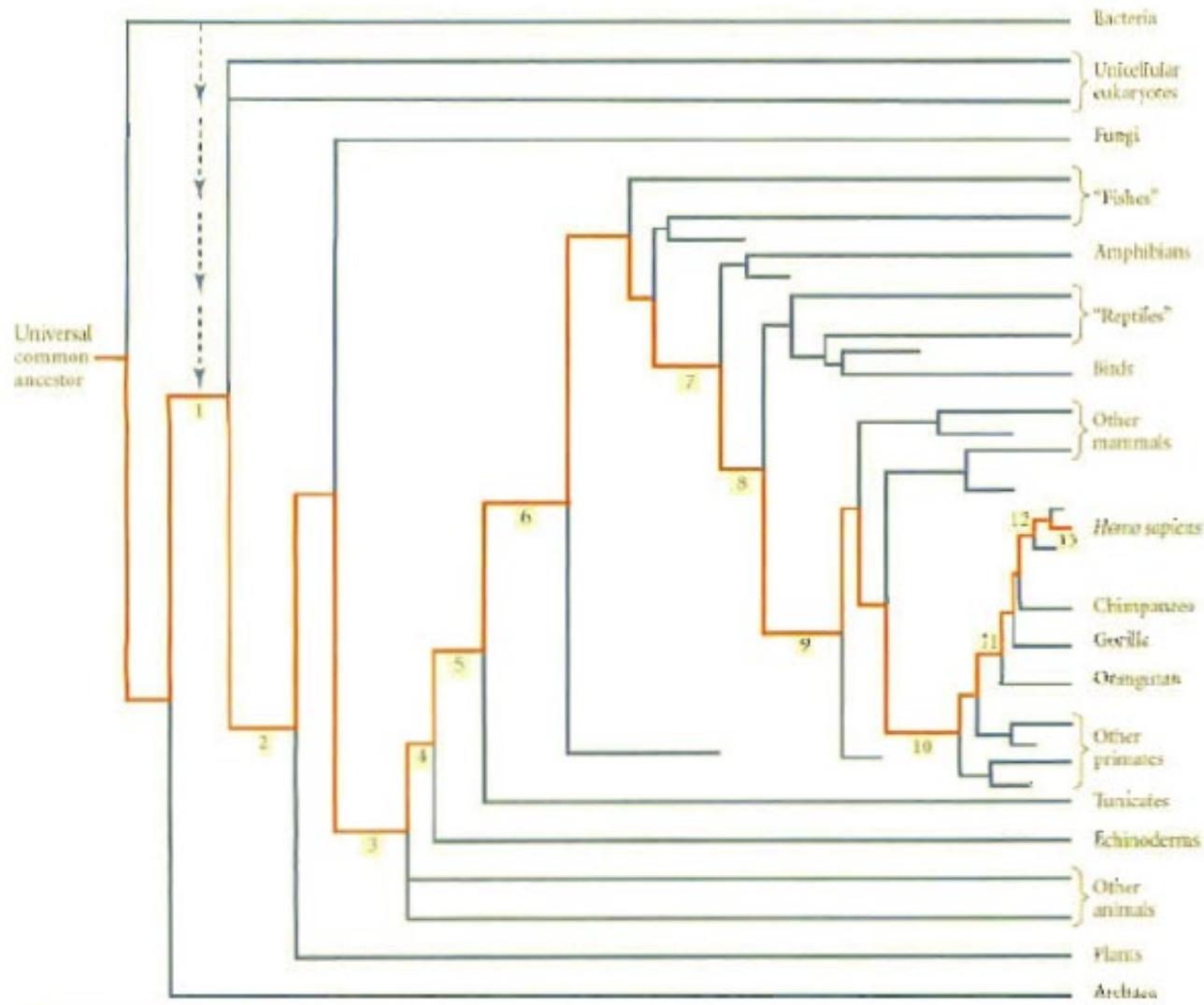
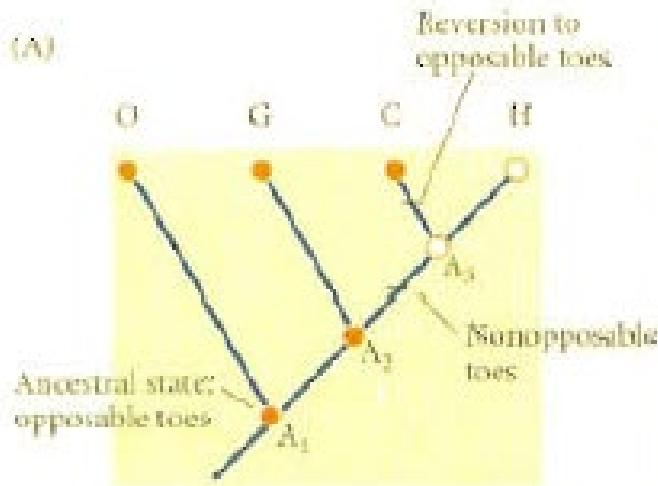


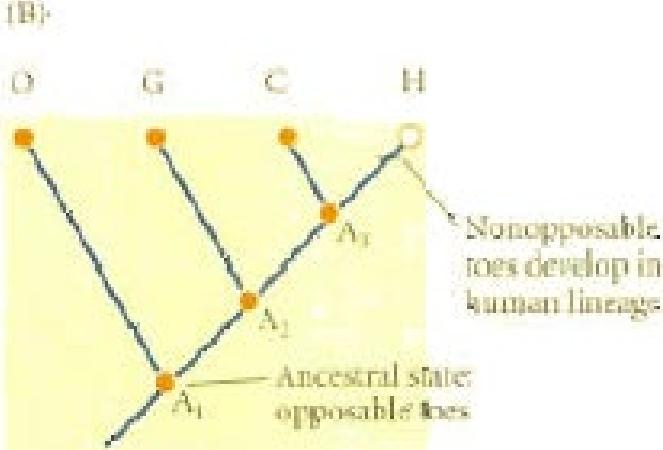
3. Evrim Modelleri



(A)



(B)



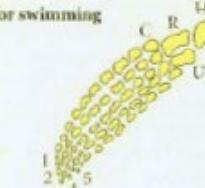
Ancestral condition

H	Humerus
U	Ulna
R	Radius
C	Carpals
M	Metacarpals
S	Sesamoid (cartilage bone)
1-5	Digits

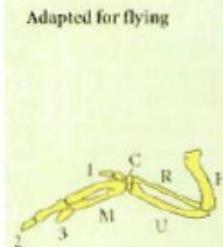
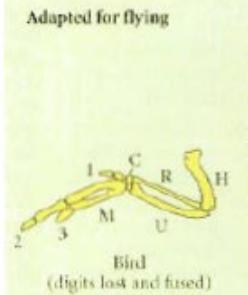
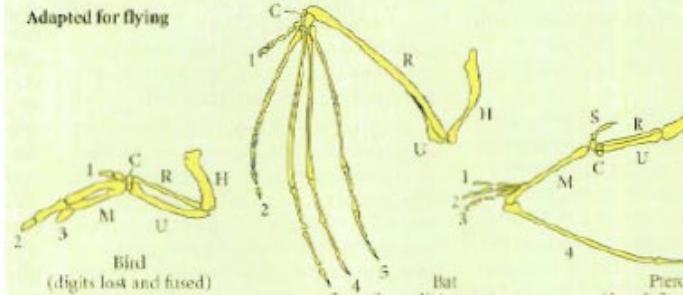
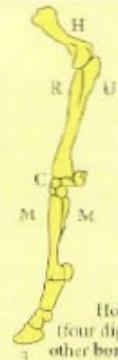
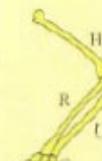


Early amphibian

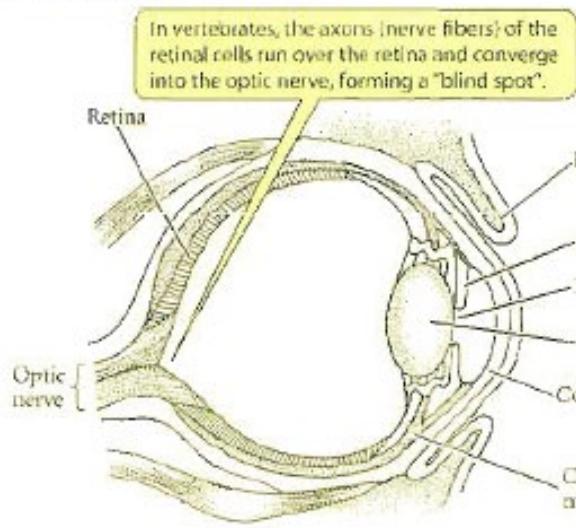
Adapted for swimming

Ichthyosaurus (extinct)
(additional segments in digits which were enclosed in flipper)Porpoise
(flipper convergent with ichthyosaurs)

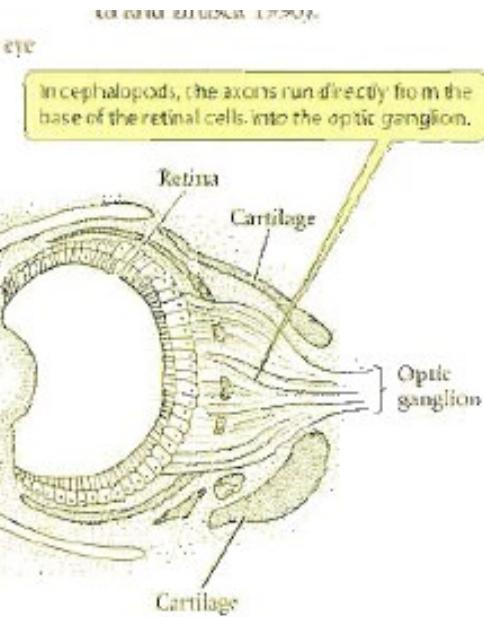
Adapted for flying

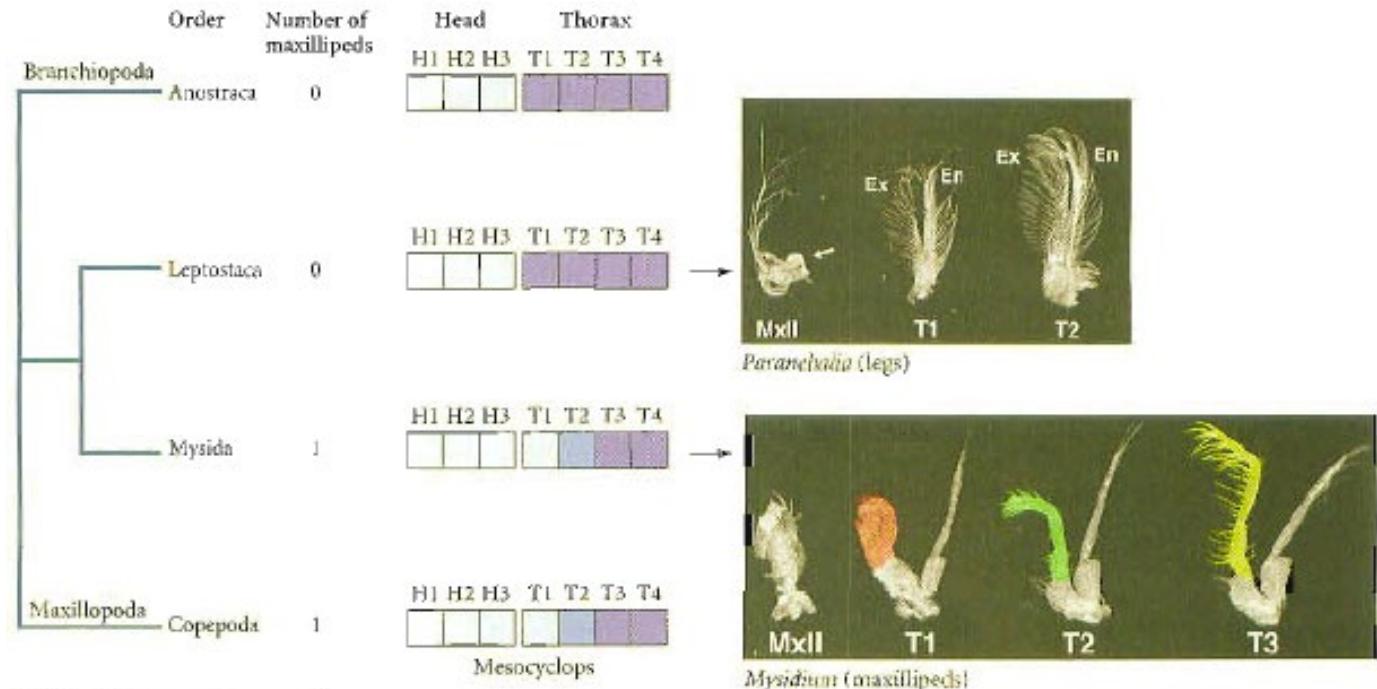
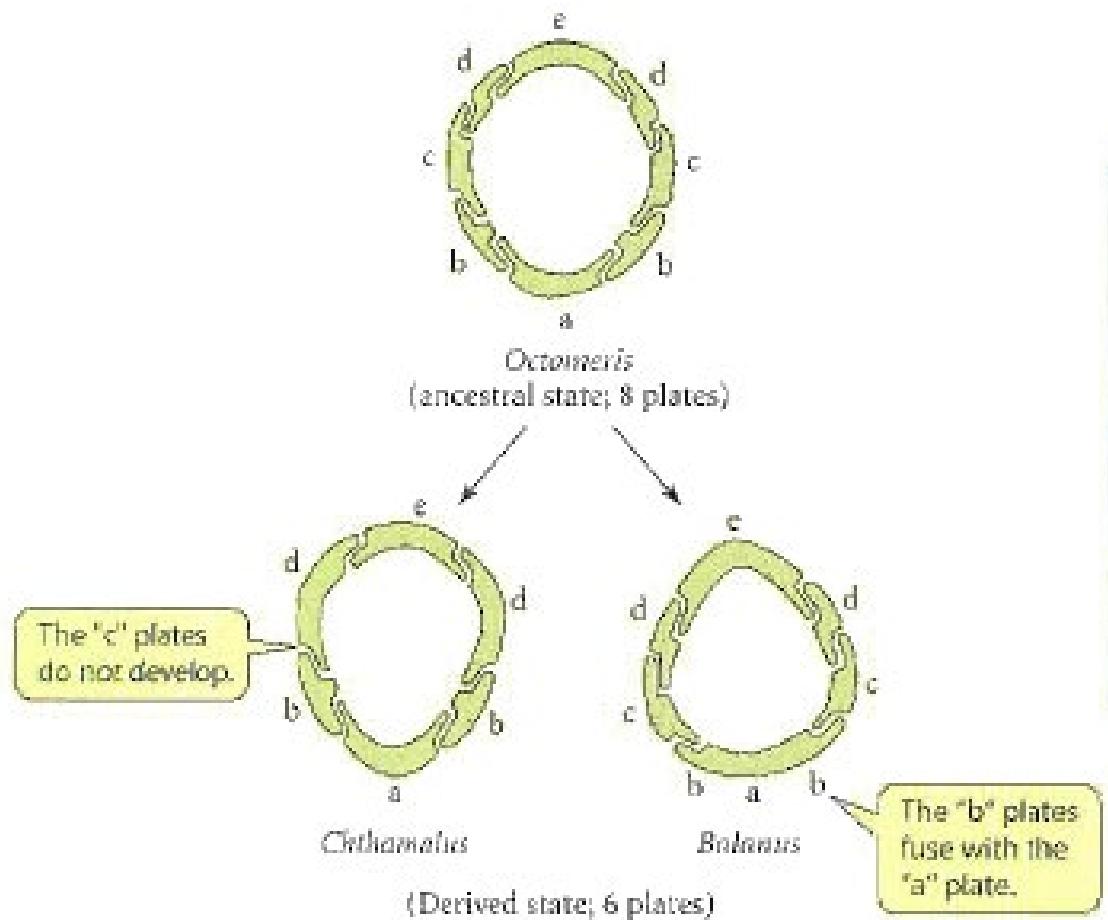
Bird
(digits lost and fused)Bat
(long digits support flight membrane)Pterodactyl
(fourth finger supported flight membrane)Horse
(four digits lost; other bones fused)Mole
(stout, broad bones and claws adapted for digging)Human
(opposable thumb; flexible fingers for grasping)

(A) Vertebrate eye



(B) Octopus eye





(A)



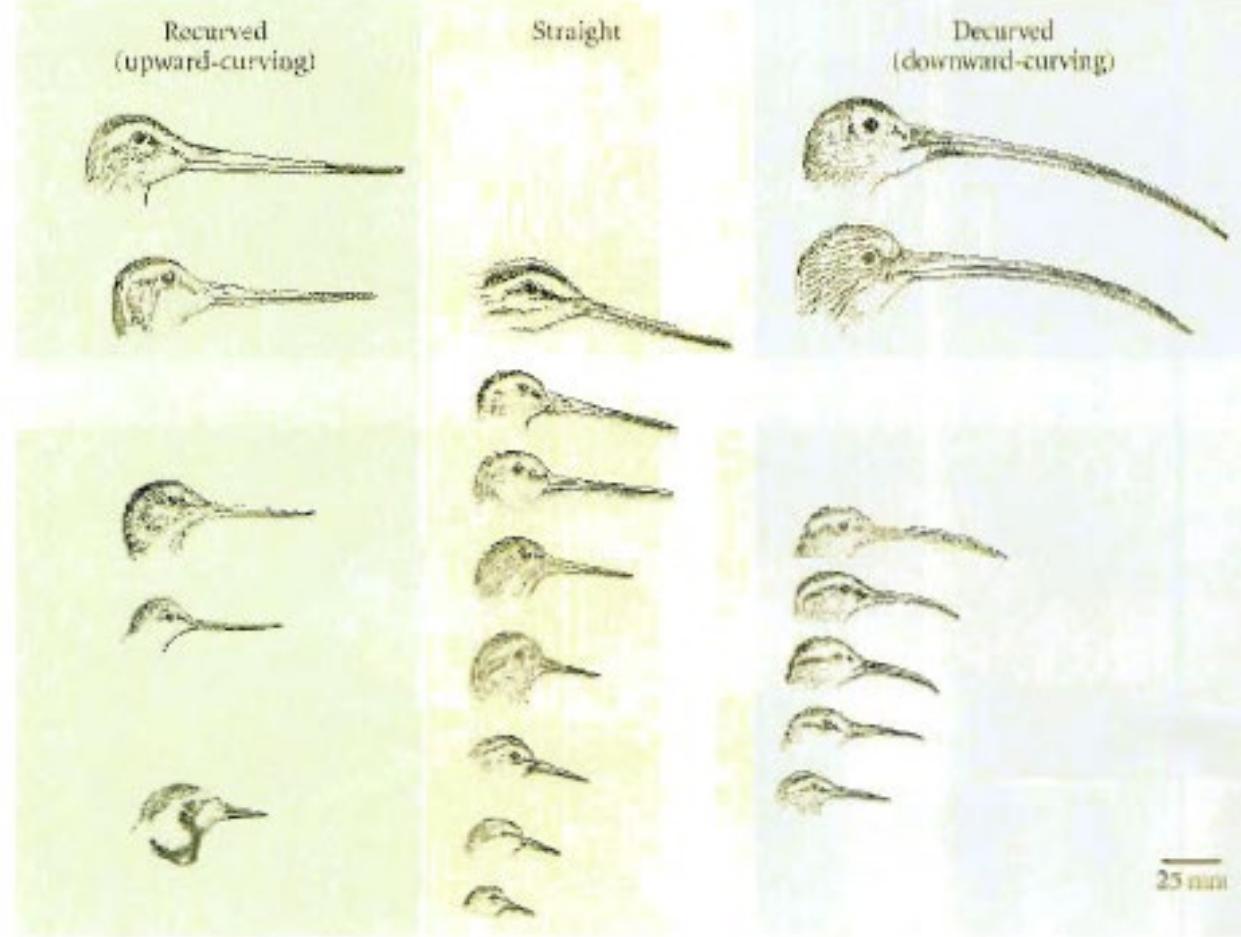
(C)

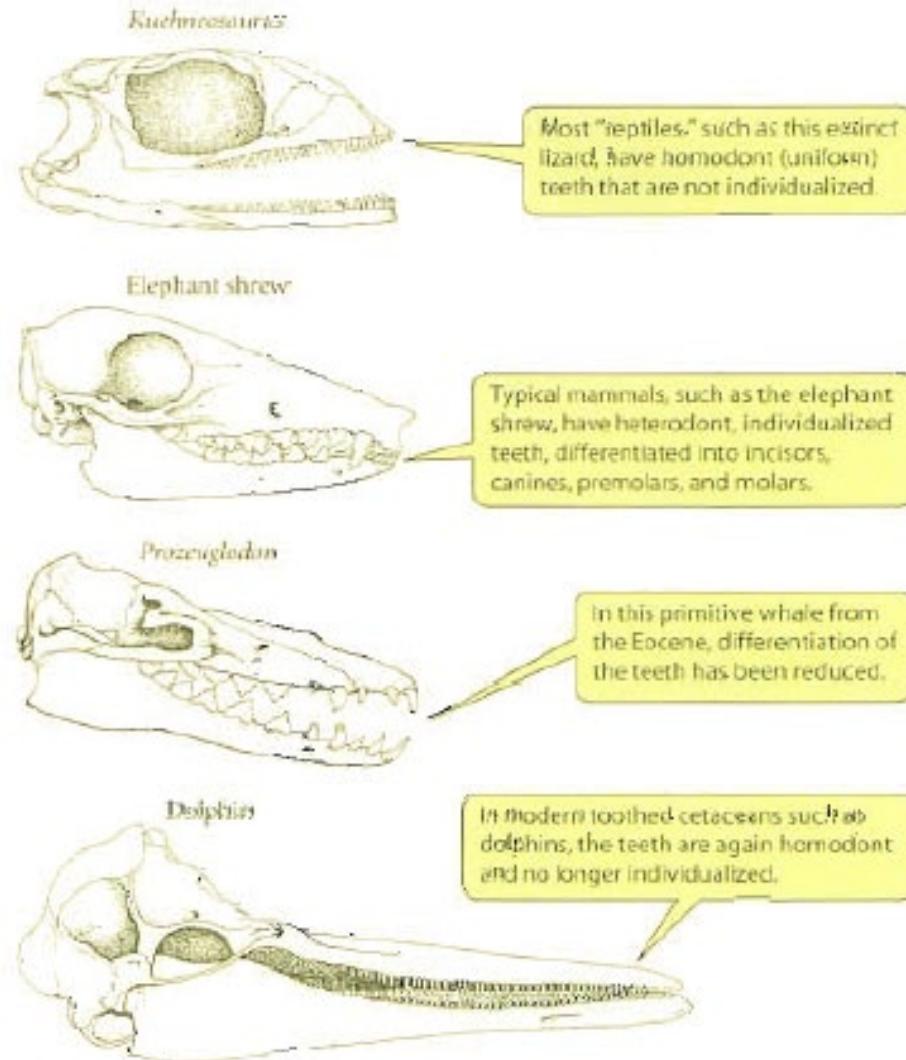
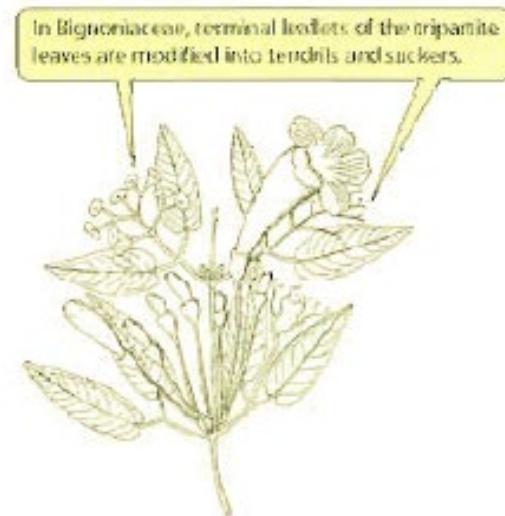


(B)

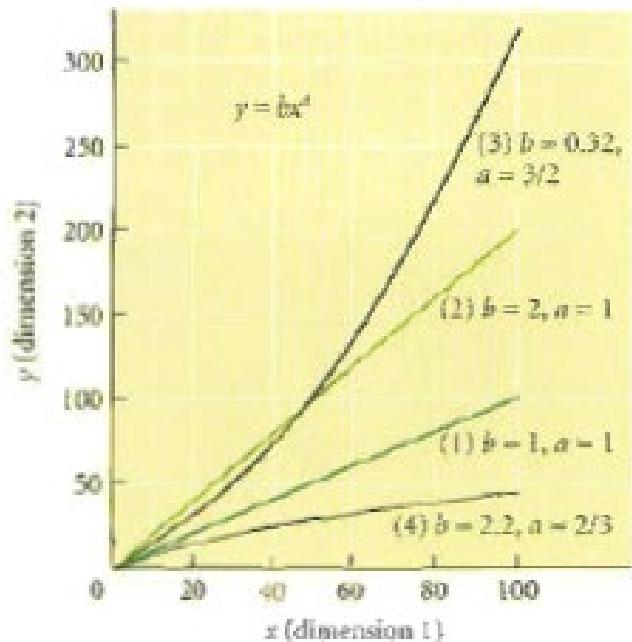


(D)

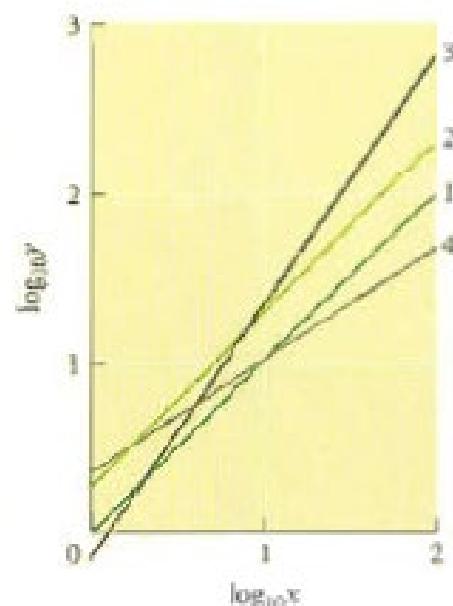




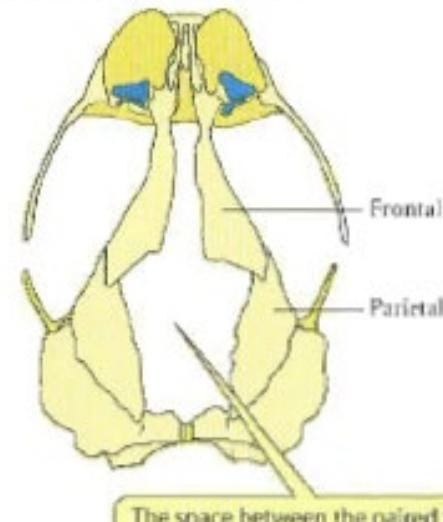
(A) Arithmetic plots



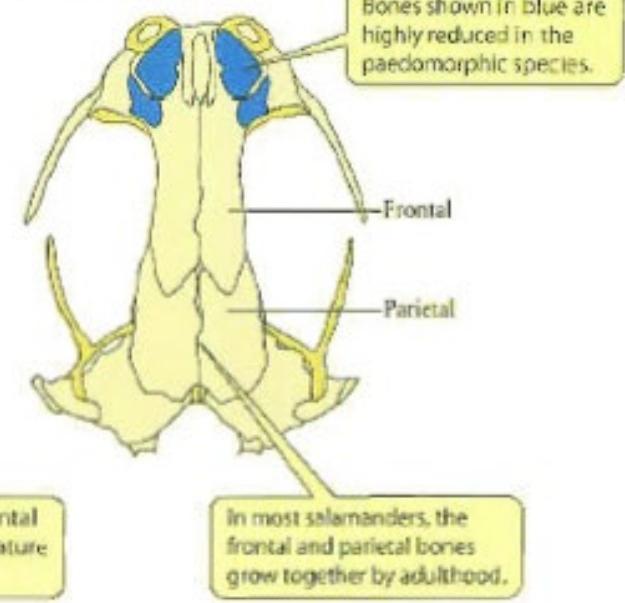
(B) Logarithmic plots

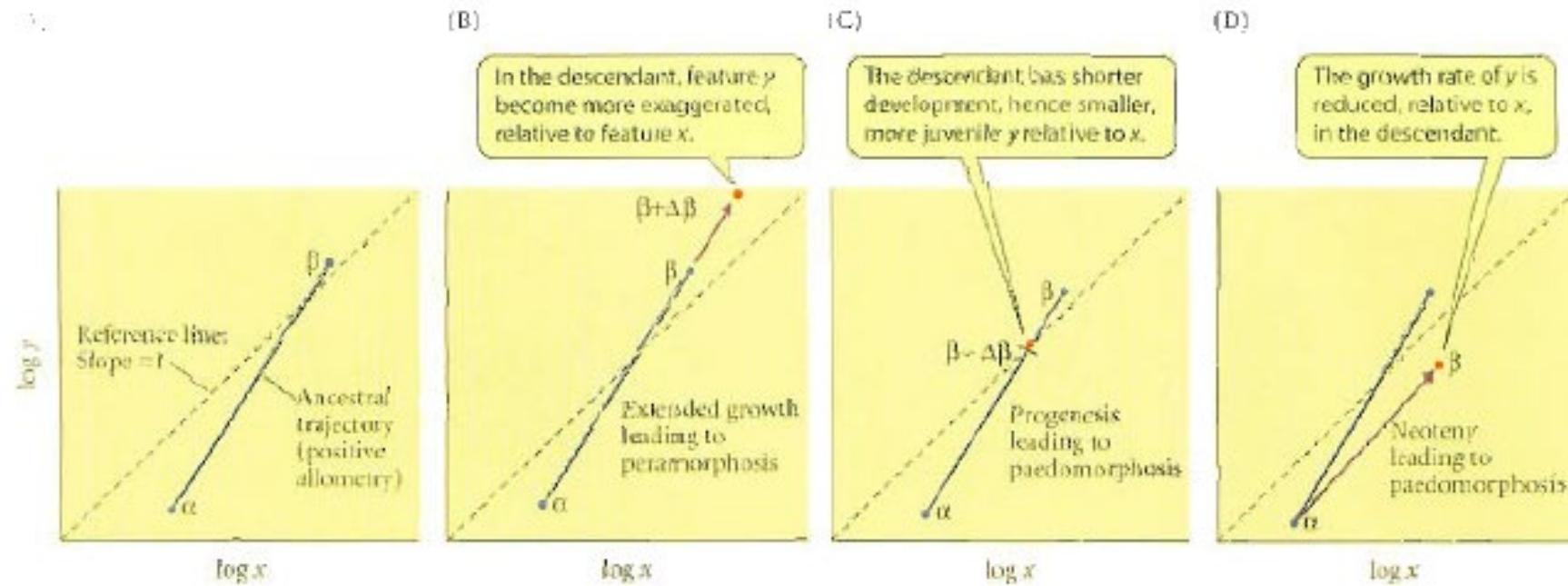


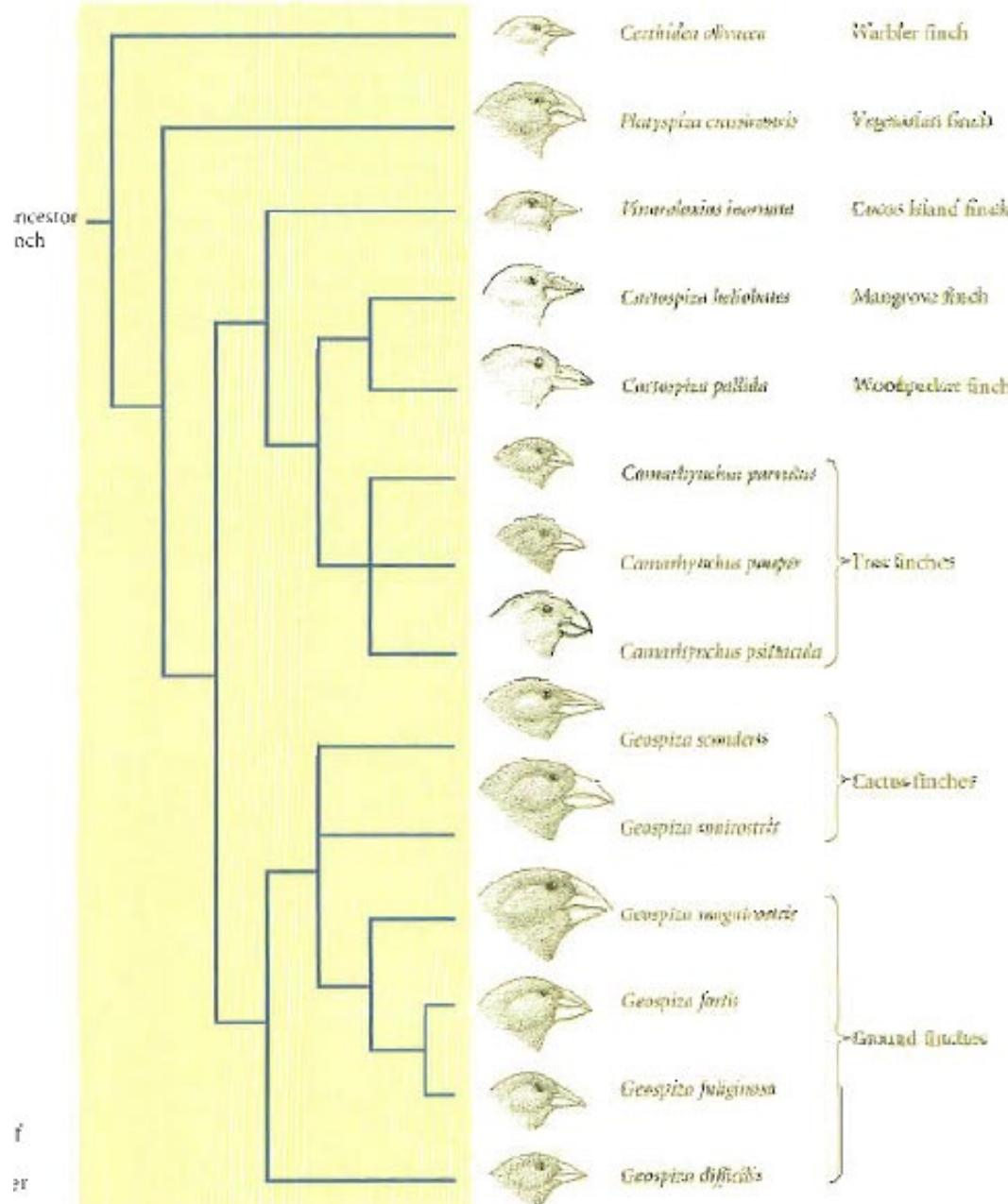
(A) Paedomorphic (*Thorus*)



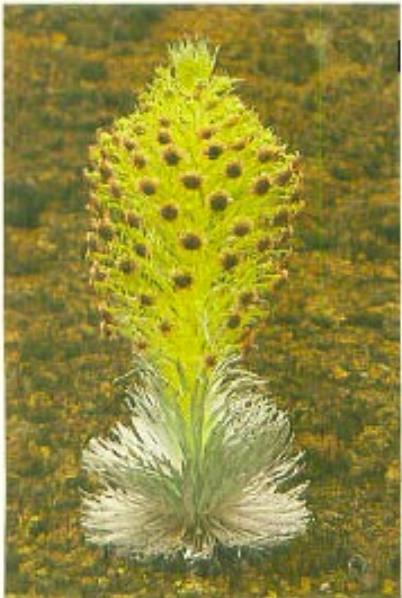
(B) Nonpaedomorphic







Reference: Futuyma, D. J. (2005). Evolution. Sinauer & Associates, Inc., Sunderland, Massachusetts, 226-243.

(B) *Wilkesia helvola*(C) *Dabenetta menziesii*