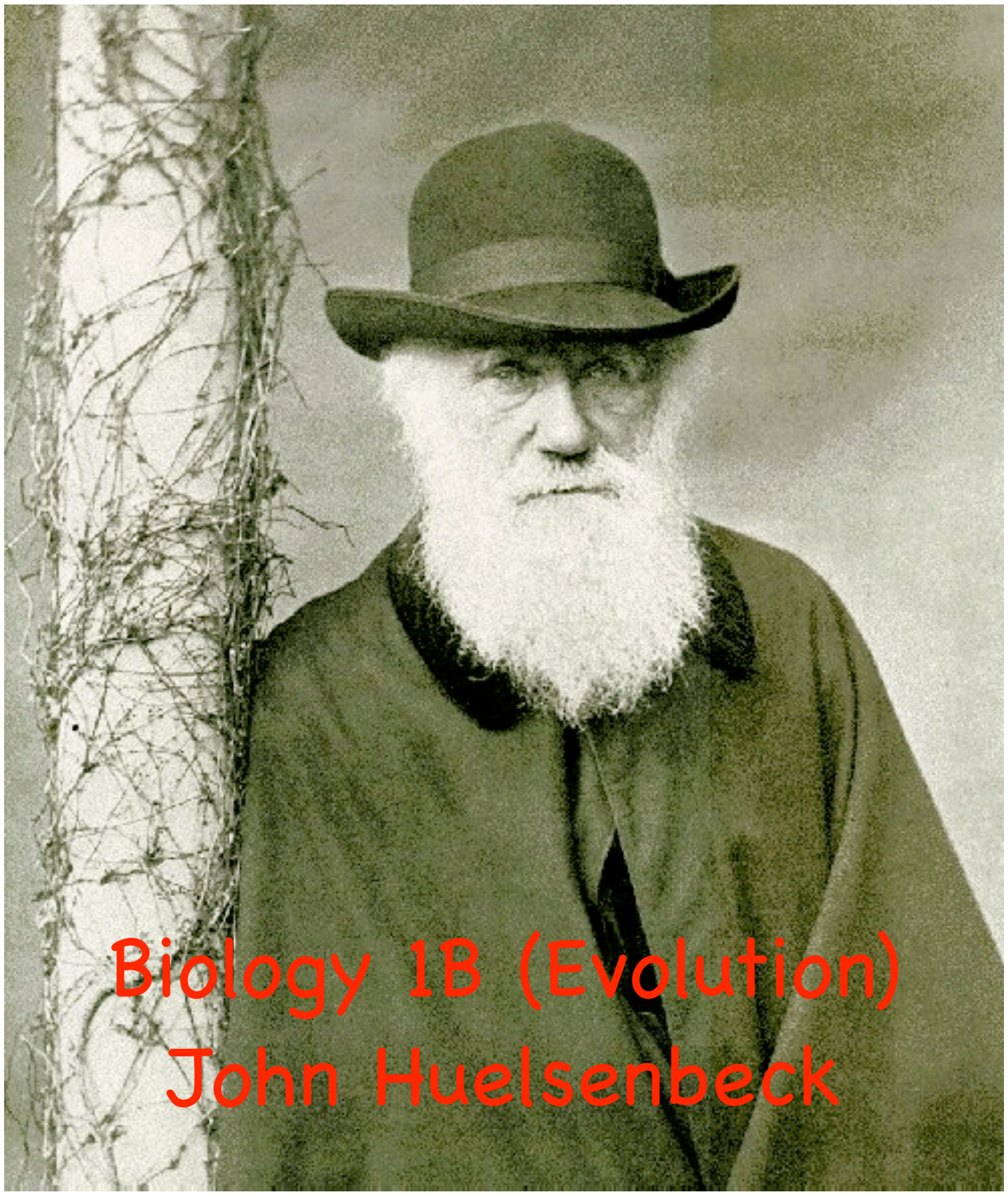
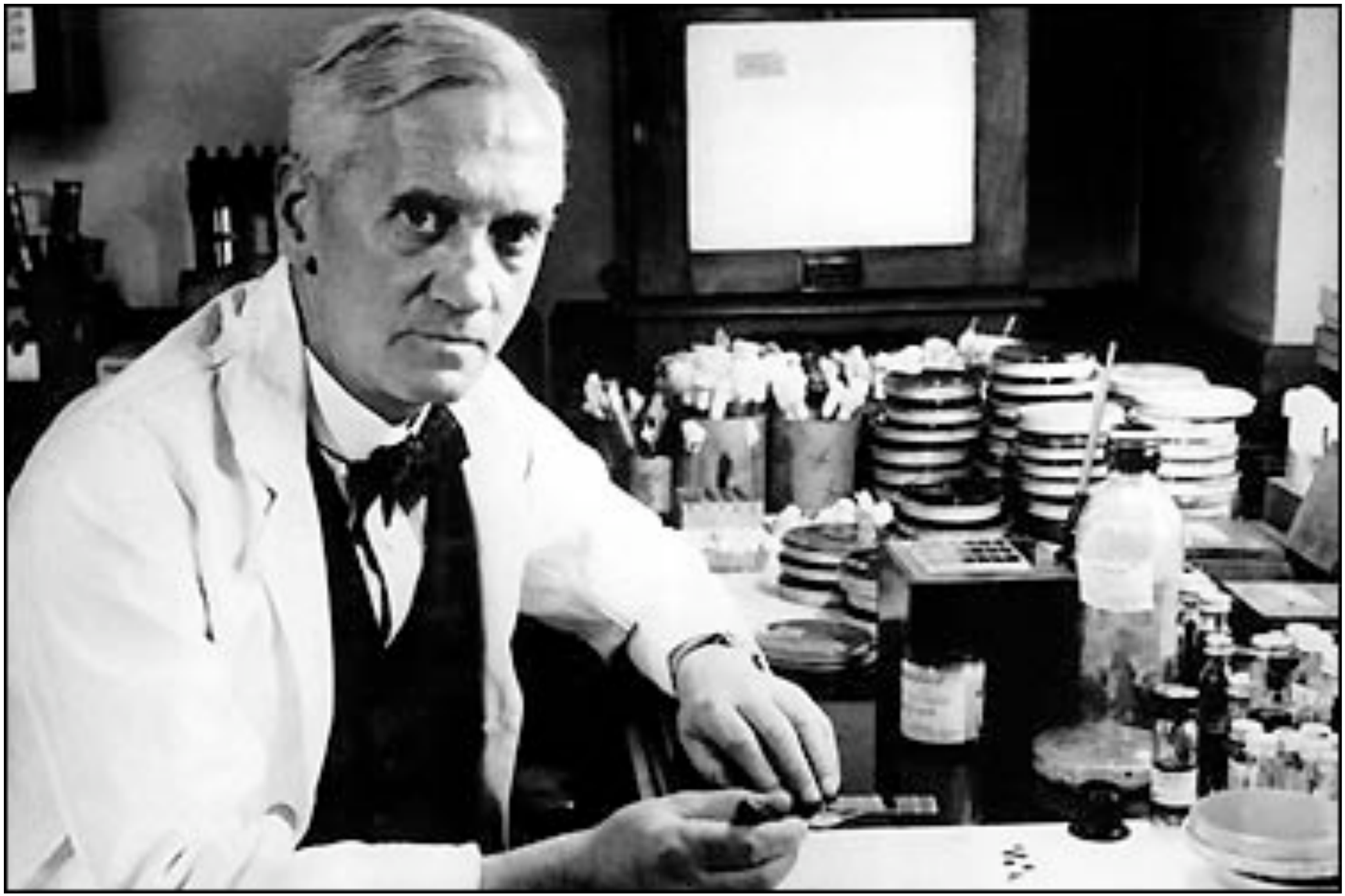
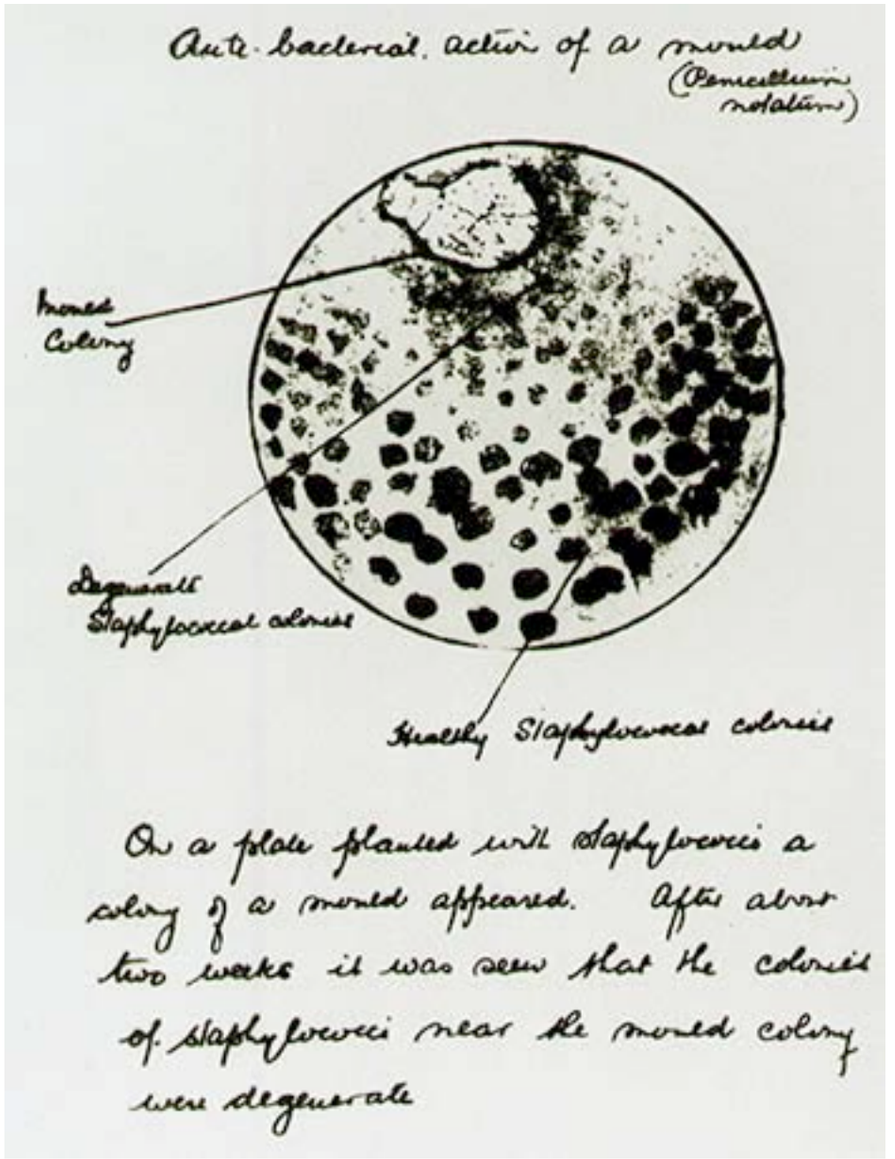


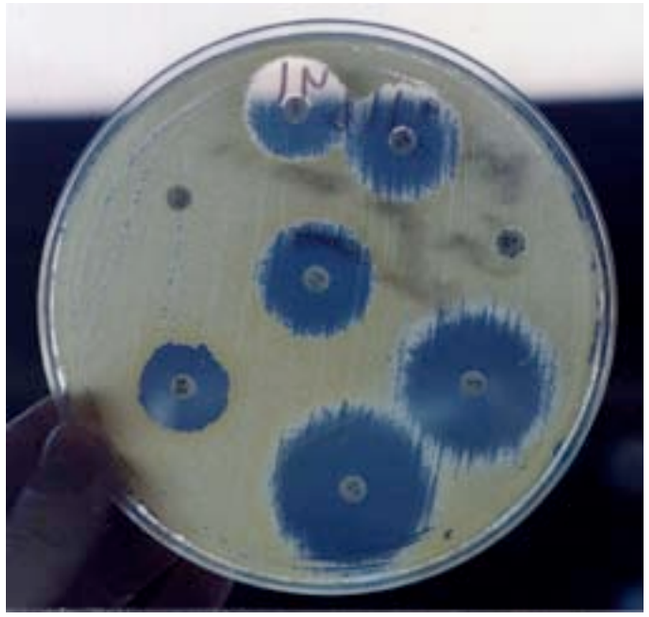
Biology 1B (Evolution)
John Huelsenbeck



Alexander Fleming
(1881–1955)

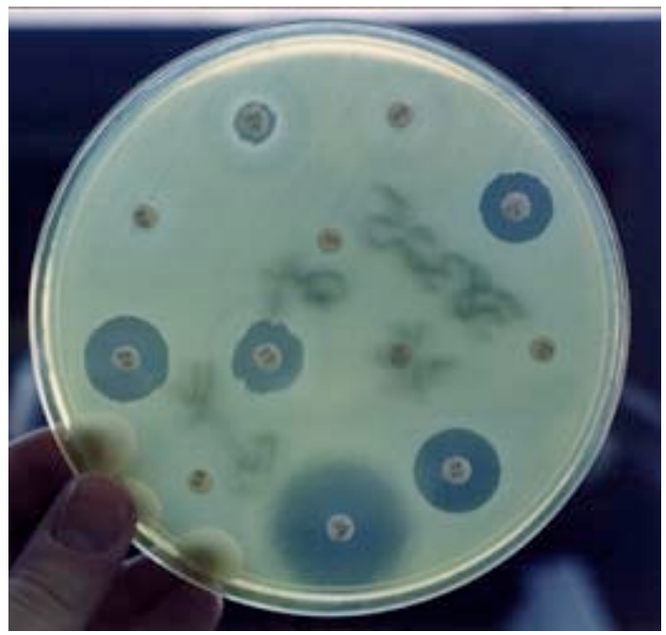

Science Museum 2000


Anti-bacterial action of a mould
(Penicillium notatum)
Mould Colony
Degenerate Staphylococcal colonies
Healthy Staphylococcal colonies
On a plate planted with staphylococci a colony of a mould appeared. After about two weeks it was seen that the colonies of staphylococci near the mould colony were degenerate

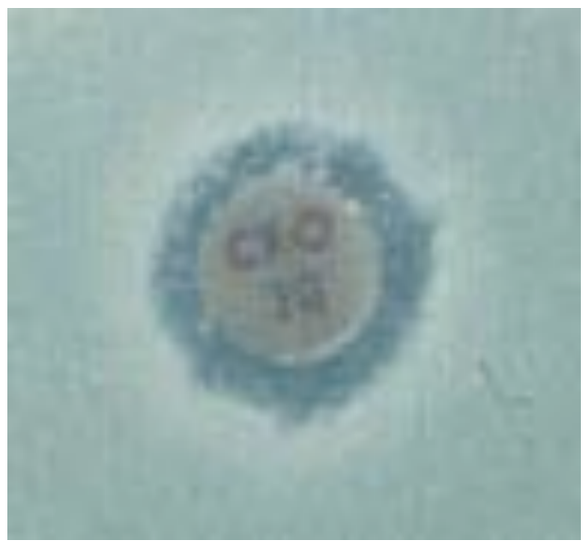


Staphylococcus aureus
(Bacterial lawn is yellow tinged. Note zone of inhibition by Oxacillin disk.)

Pseudomonas aeruginosa
(The greenish tint to the bacterial lawn is caused by the bacteria itself)



Well-defined margin
of inhibition around disk.

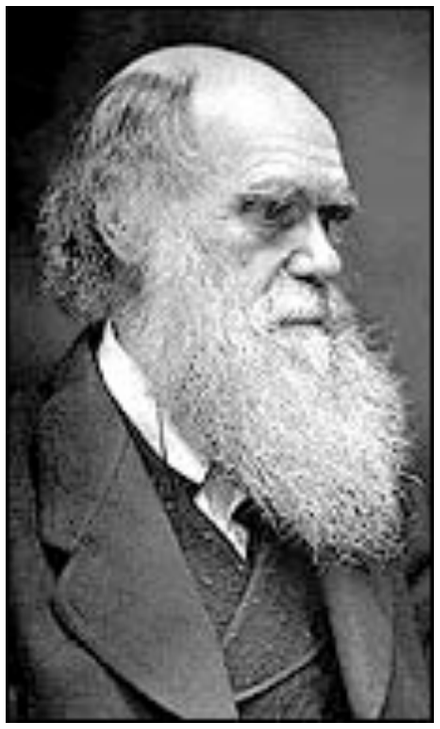


The small zone of inhibition around this Ceftriaxone disk is interpreted as resistance.

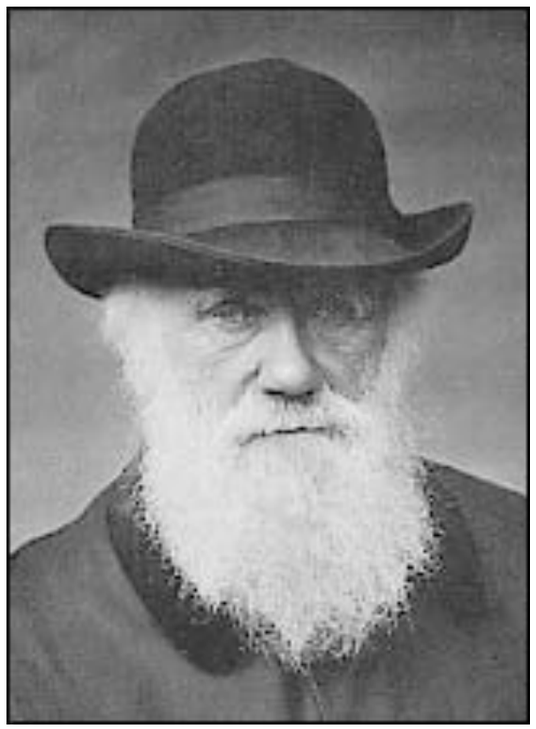
7 (1816)

31 (1840)

45 (1854)

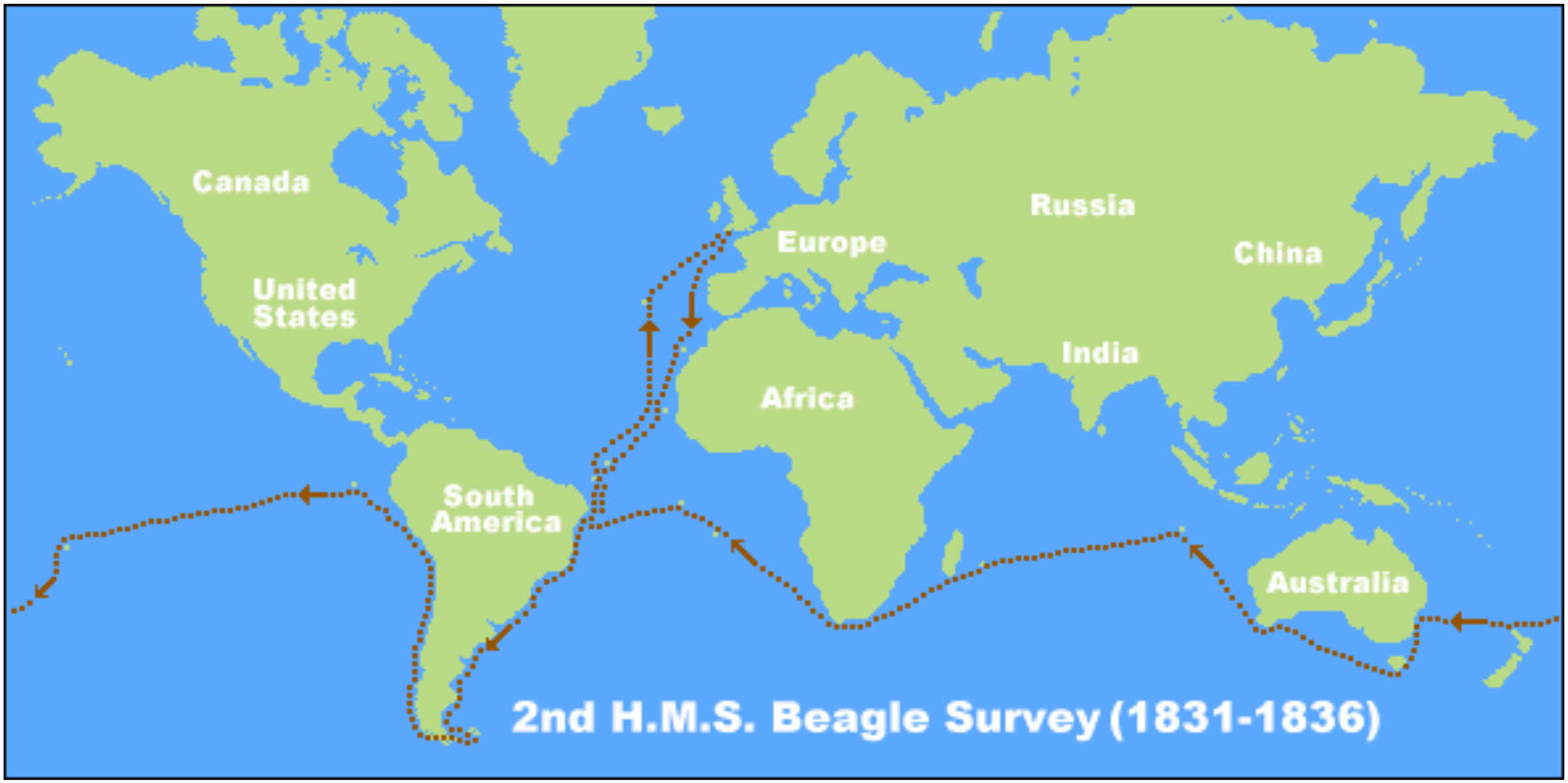


65 (1874)

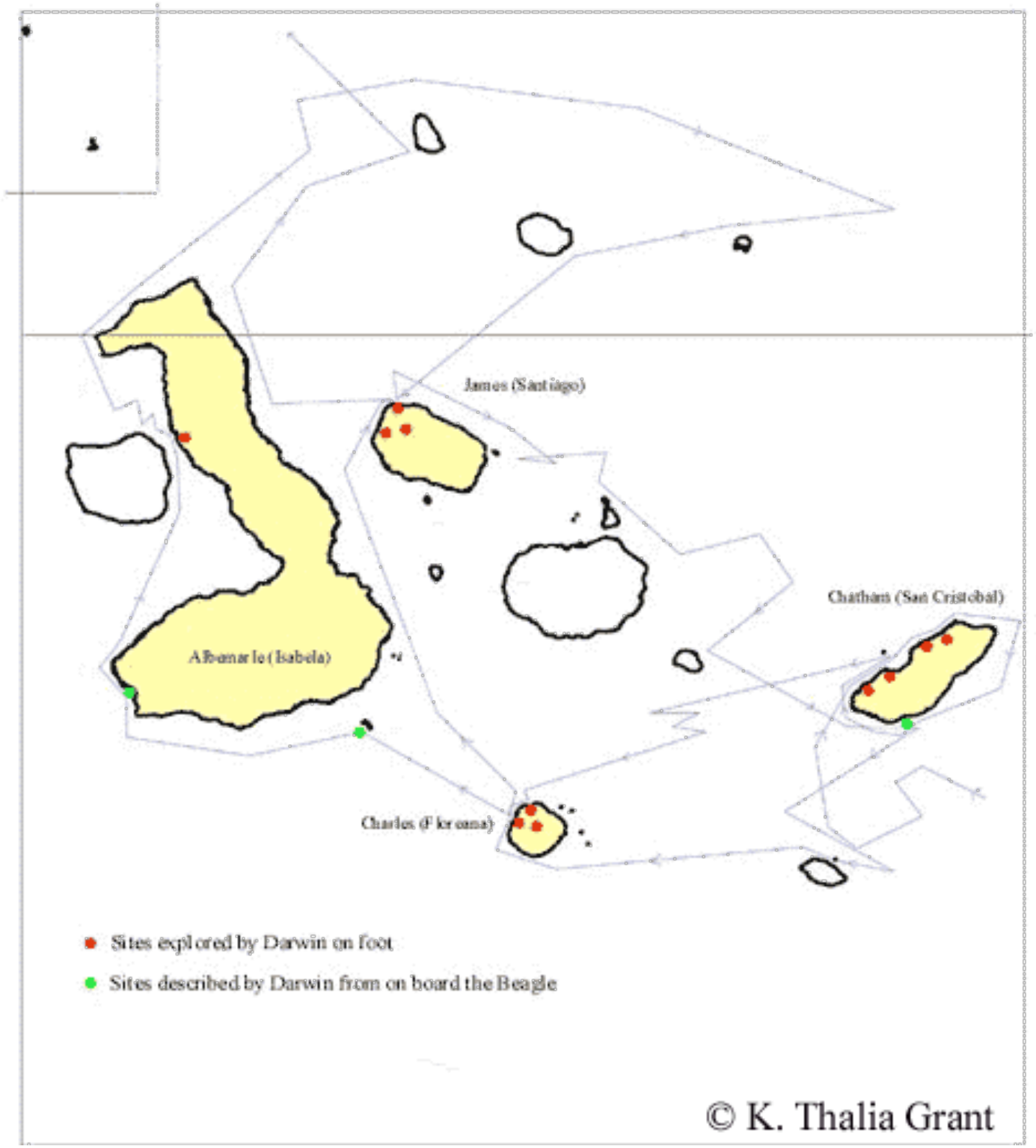


71 (1880)

Westminster Abbey


Canada
United States
Europe
Russia
China
India
Africa
South America
Australia
2nd H.M.S. Beagle Survey (1831-1836)

Route of the HMS BEAGLE through Galapagos



Galapagos Tortoise

Marine Iguana

Land Iguana

A Darwin Finch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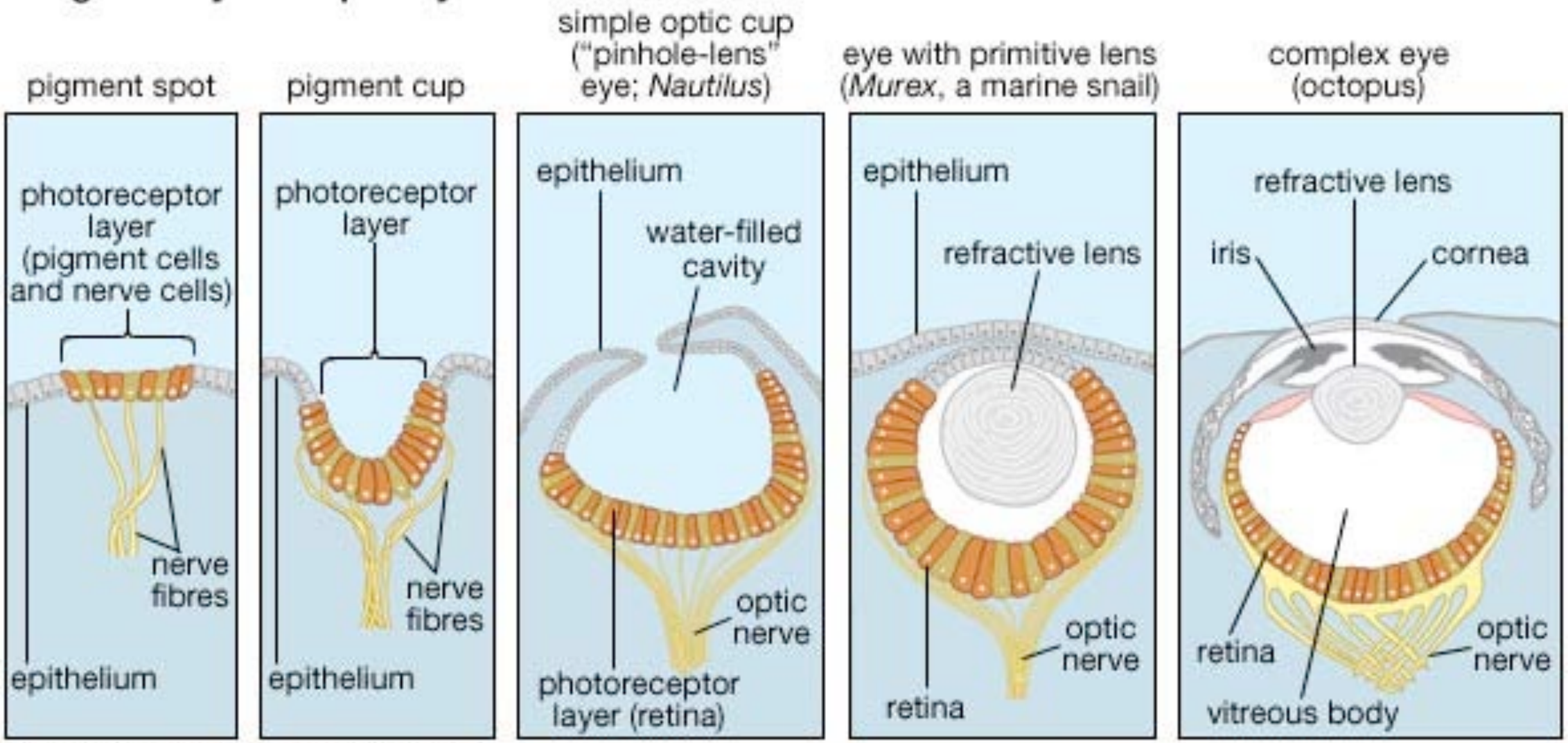
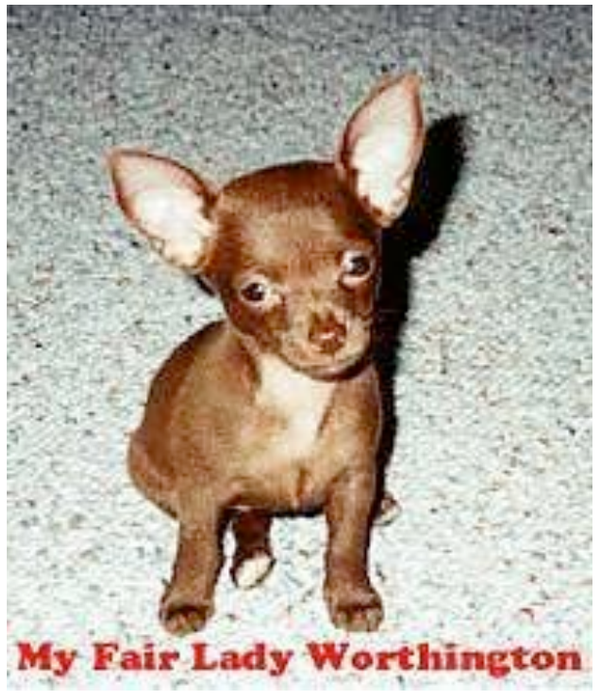
Stages of eye complexity in mollusks



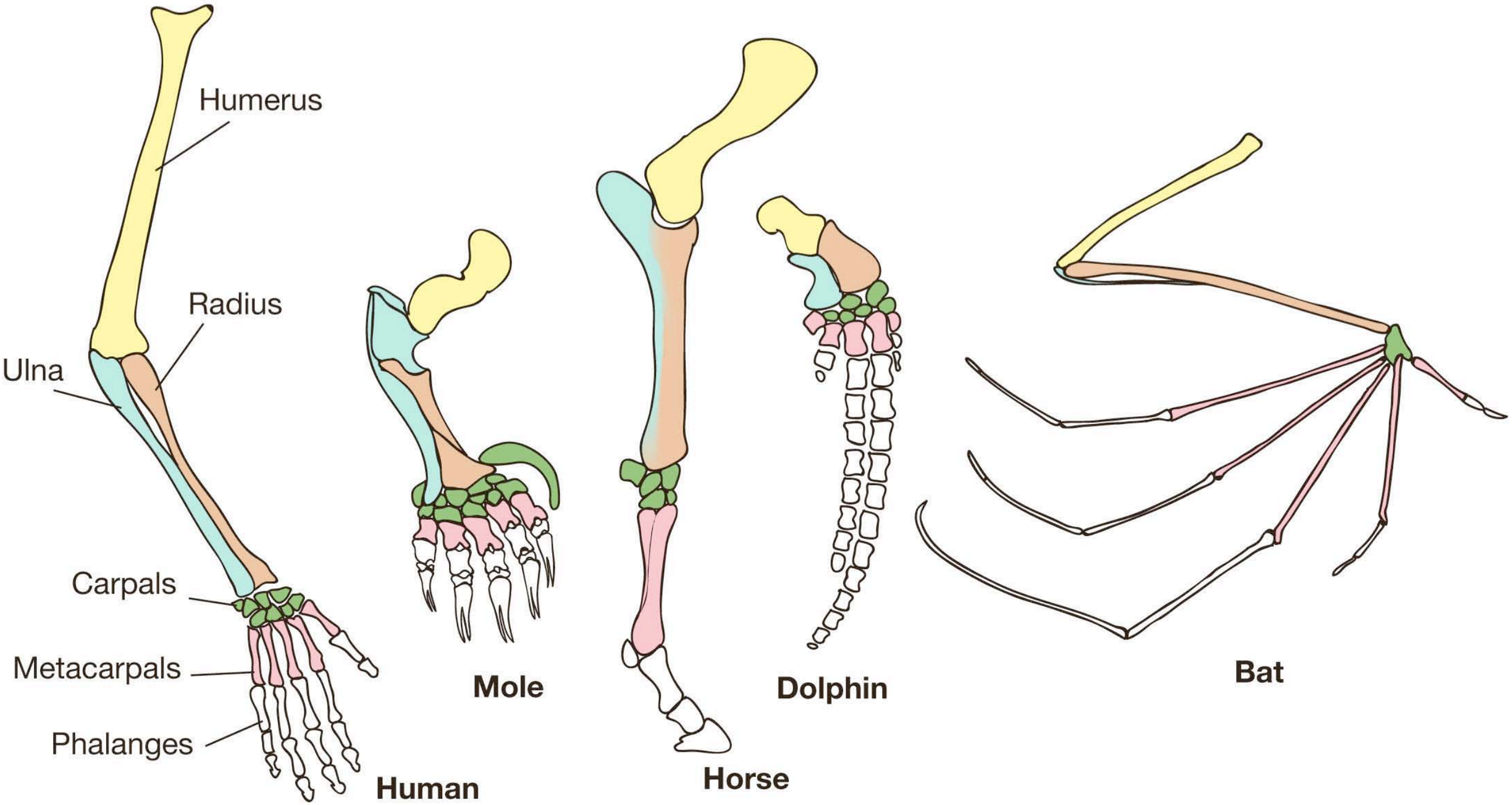


Chihuahua

Great Dane

Sheep Dog

Wolf



(c)

Pseudogene	Estimated age	Human	Chimp	Gorilla	Orangutan	Rhesus monkey	Capuchin monkey	Hamster
α-Enolase Ψ_1	11 Myr	●	●	●				
AS Ψ_7	16 Myr	●	●		●			
CALM II Ψ_2	19 Myr	●	●	●	●			
AS Ψ_1	21 Myr	●	●	●	●	●		
AS Ψ_3	25 Myr	●	●	●	●	●		
CALM II Ψ_3	36 Myr	●	●	●	●	●	●	

(a)