

## Evidenz für Evolution

### Thema 2

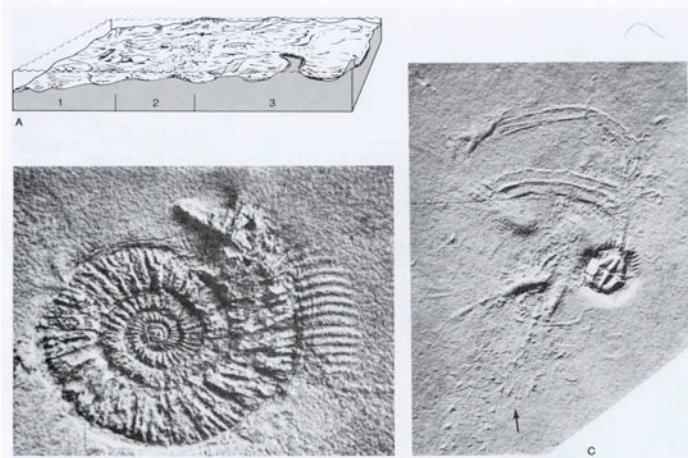
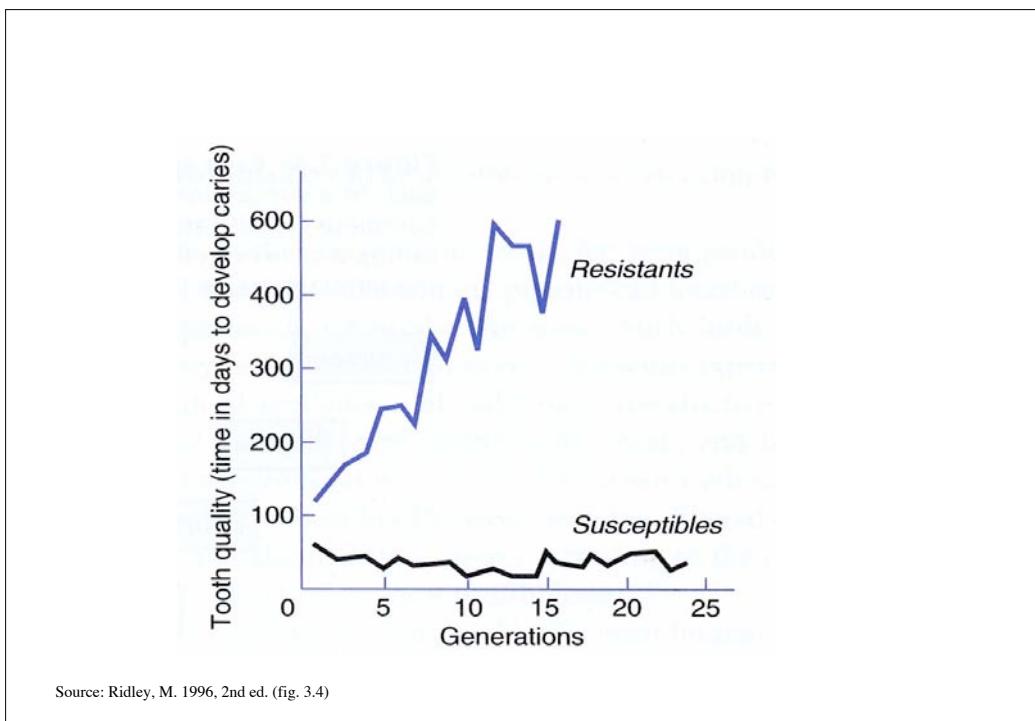
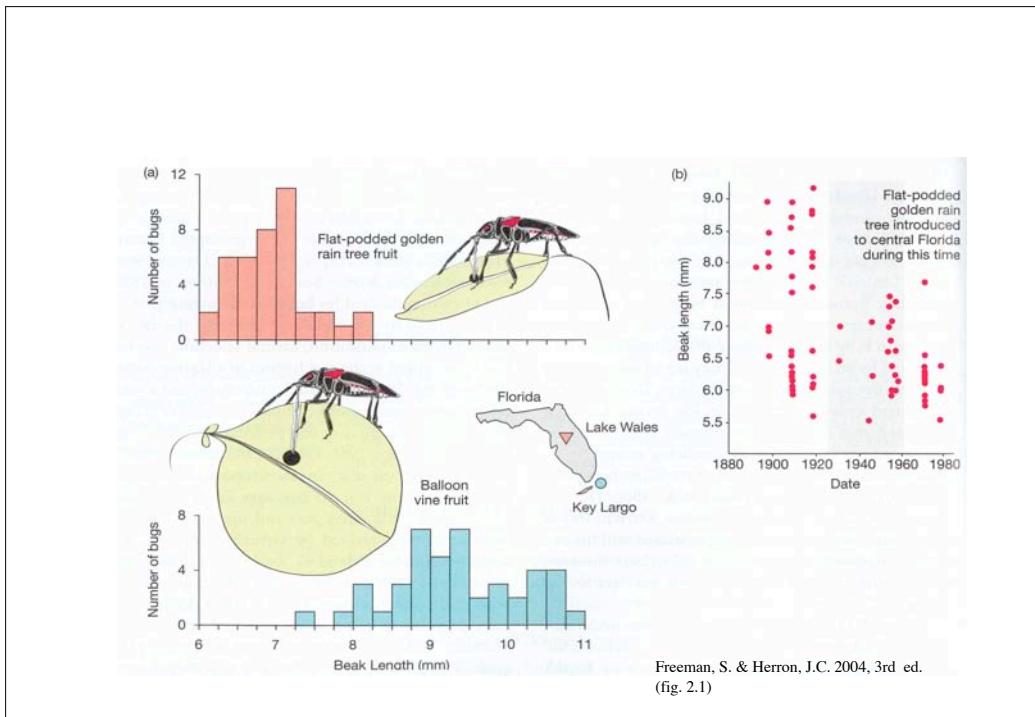


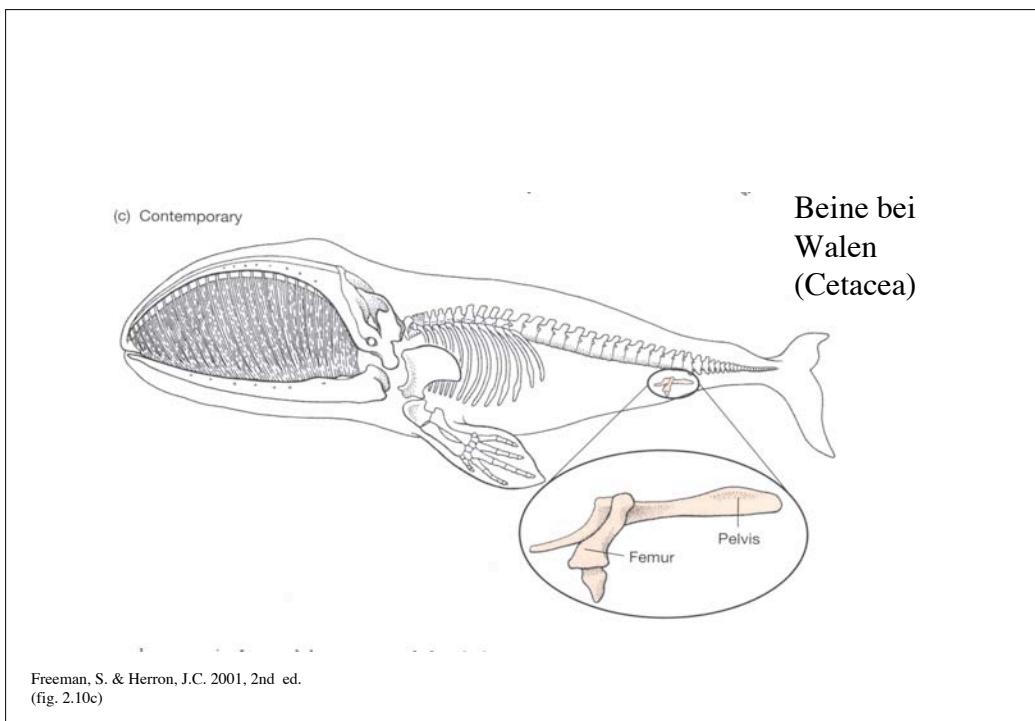
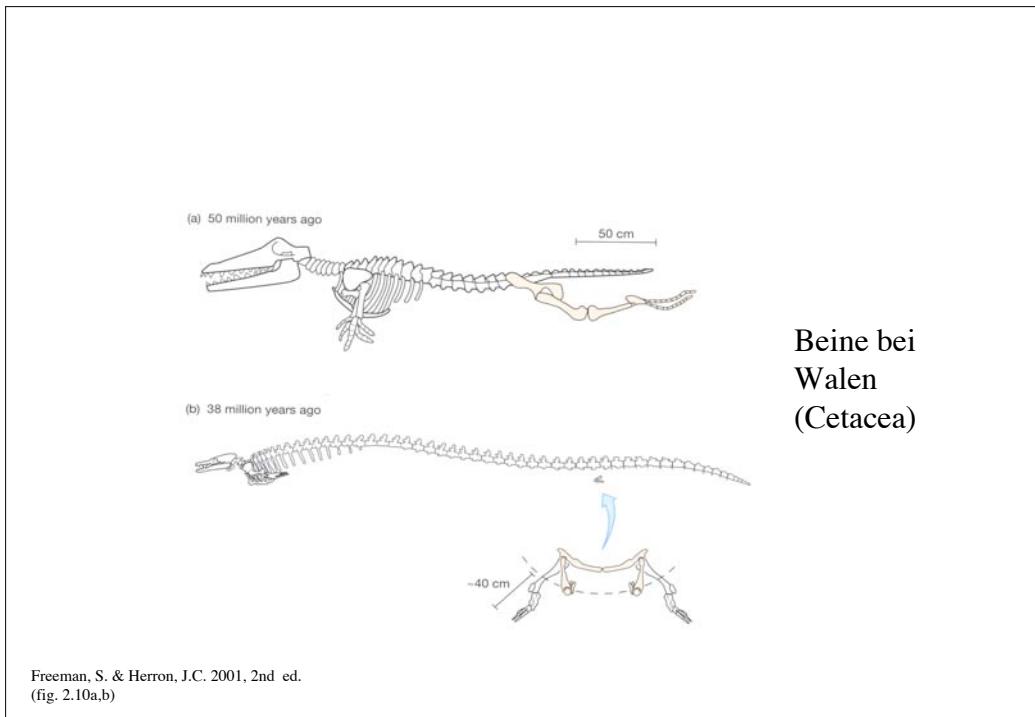
FIGURE 15-55 Unusual preservation in the fine-grained Solnhofen Limestone of southern West Germany. A. A reconstruction of the seafloor on which the Solnhofen formed: (1) living sponge reefs well below the sea surface; (2) shallower living reefs; (3) uplifted dead sponge reefs in the lagoon behind the living reefs, with the Solnhofen sediments accumulating in the basins between dead reefs. B. Bedding plane in the Solnhofen showing how an ammonite settled in an upright position, leaving a mark on the sediment, and then keeled over on its side. C. Final tracks of a horseshoe crab, *Mesolimulus* (arrow), and scratch marks made by the dead or dying animal as it slid over the sediment. (A. K. W. Barthel, *News Jährb. Geol. Paläont.*, 135:1–18, 1970. B. C. Diener, *Palaeont. Indica, new ser.* 5:1–133, 1913. C. H. Leich, *Aufschluss* 1:5–7, 1965.)

Stanley Fig.15.5

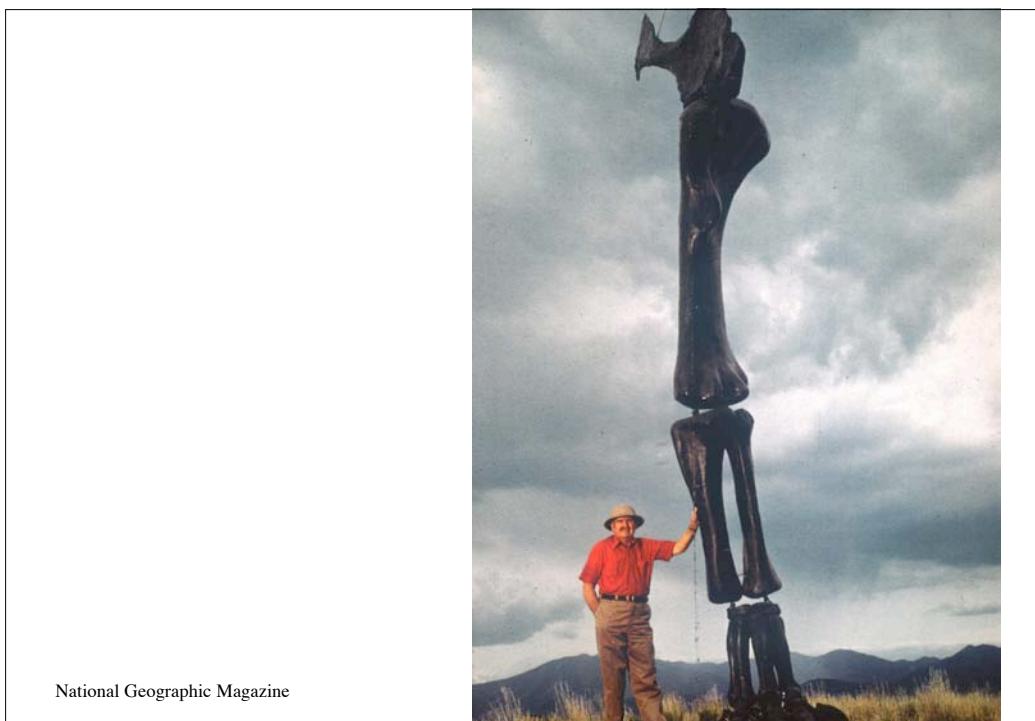
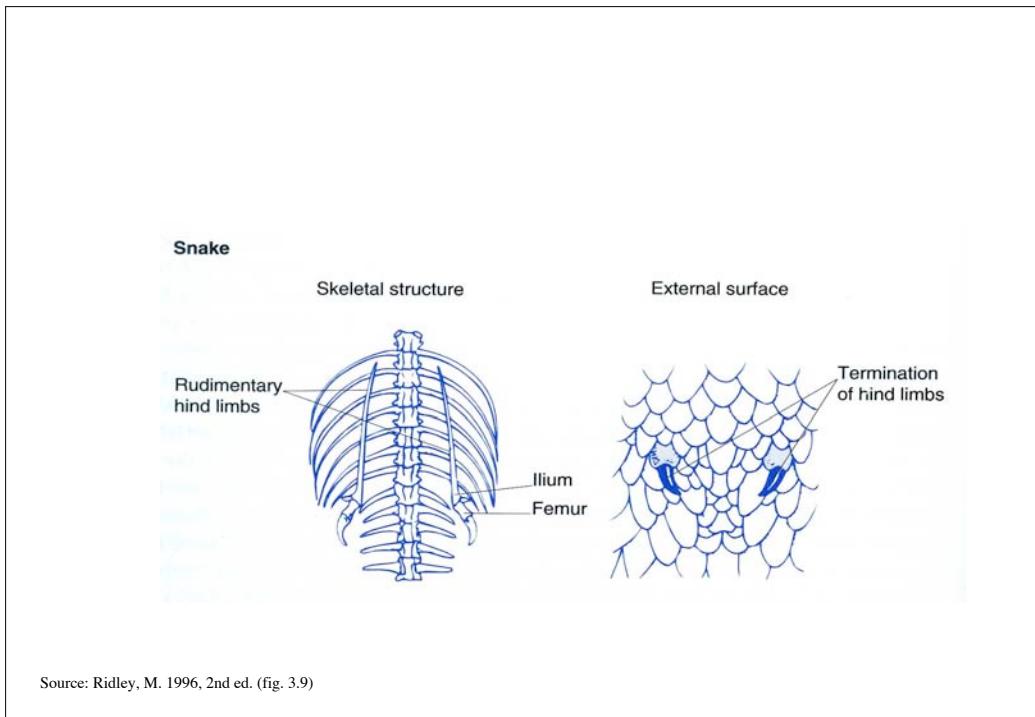
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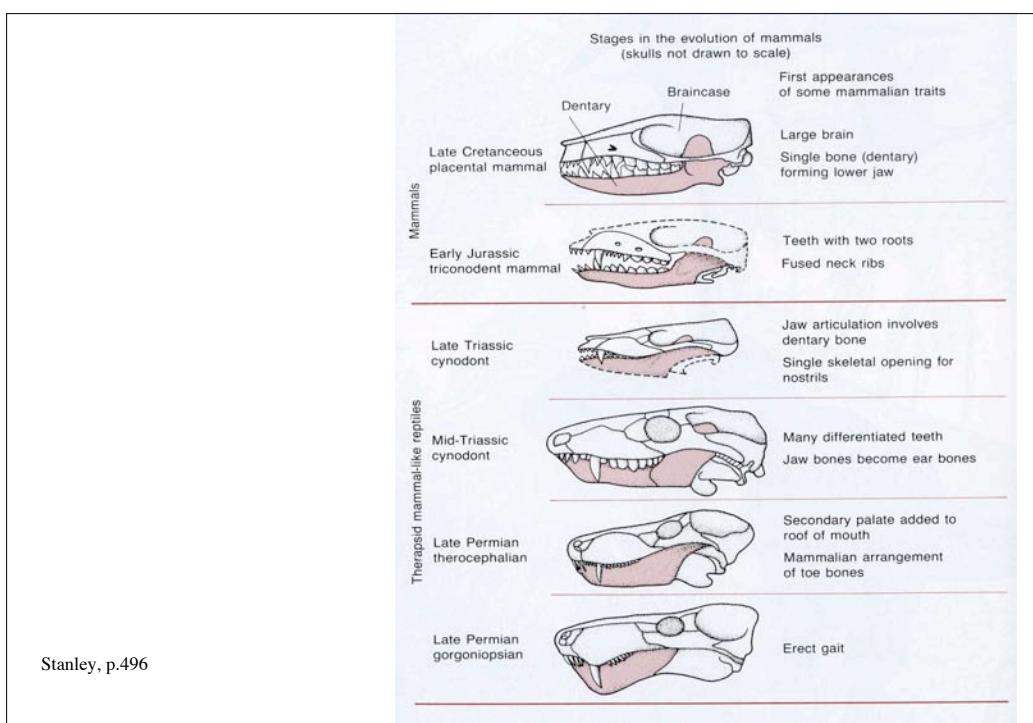
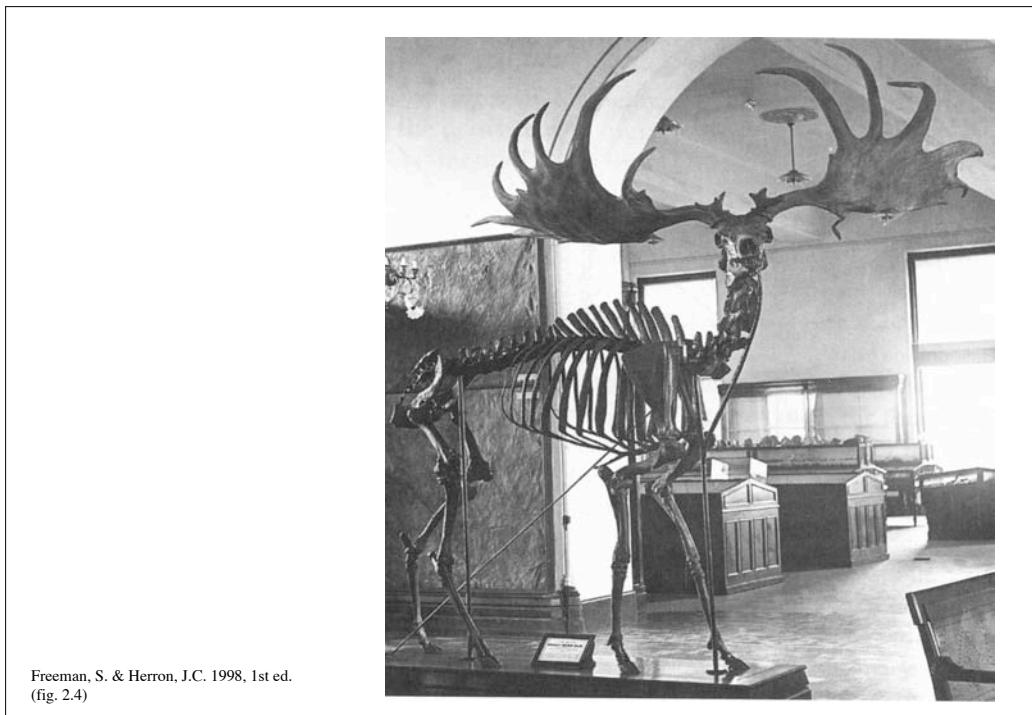
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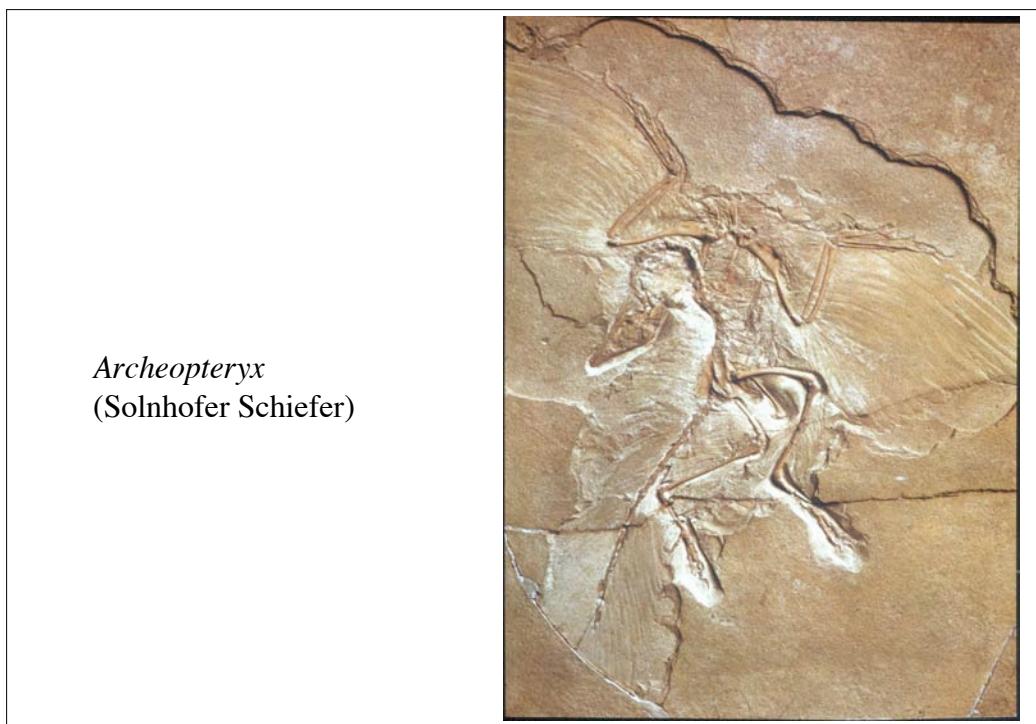
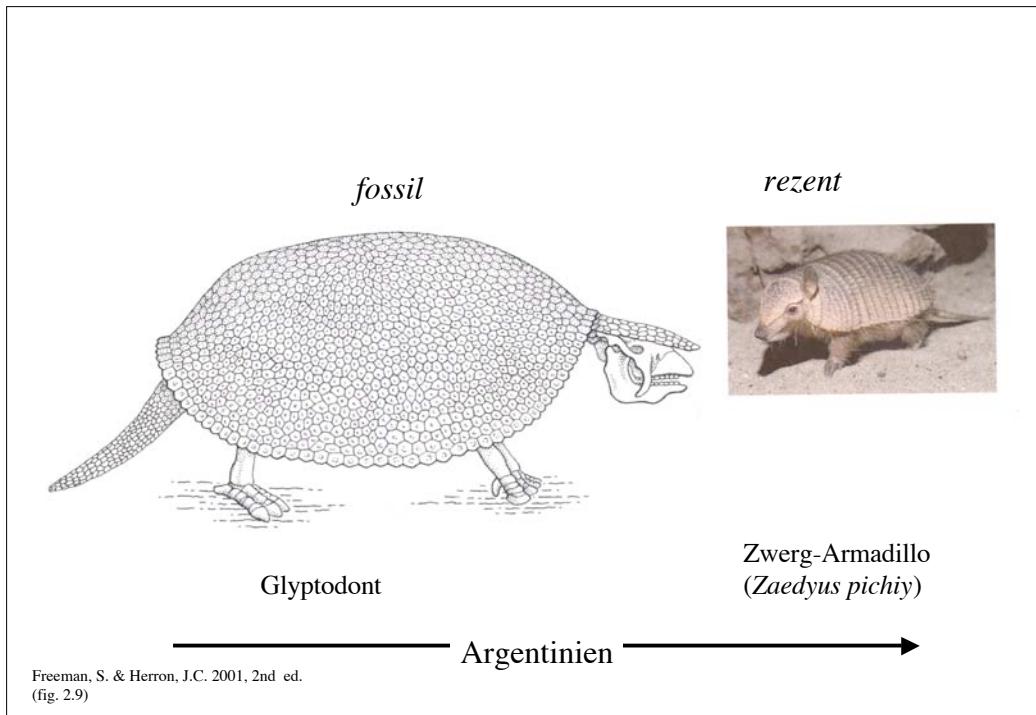
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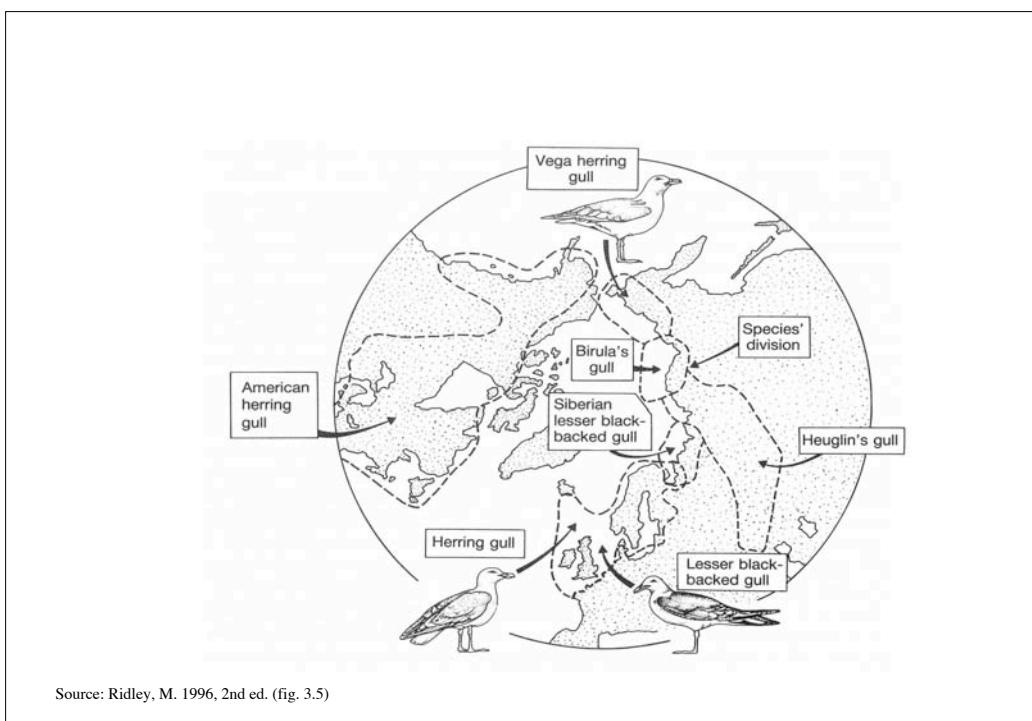
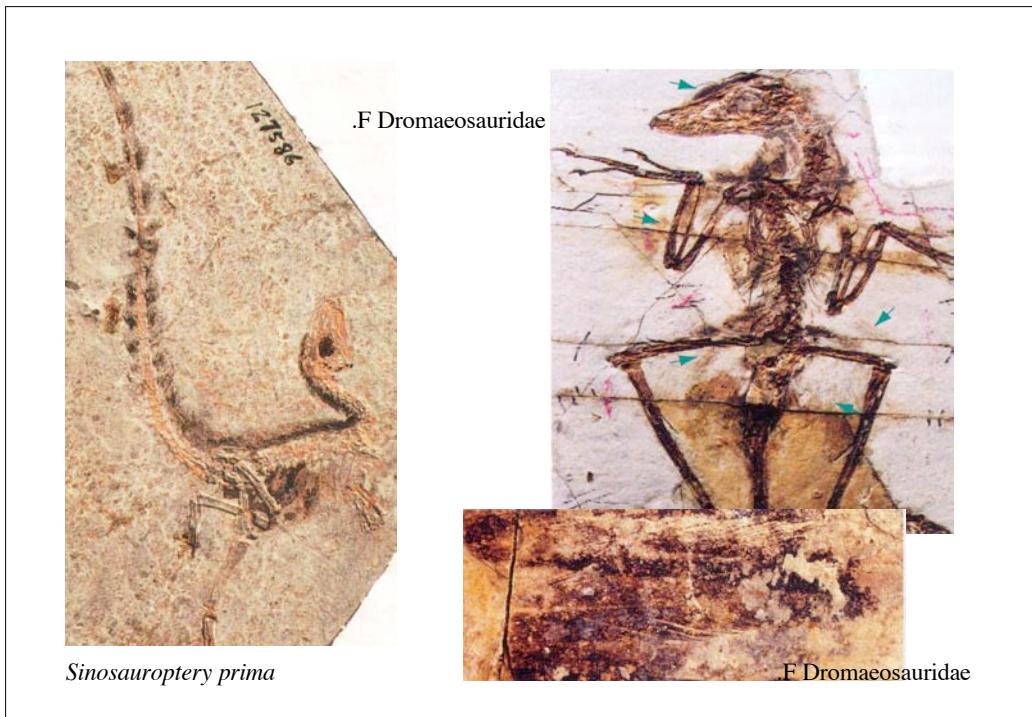
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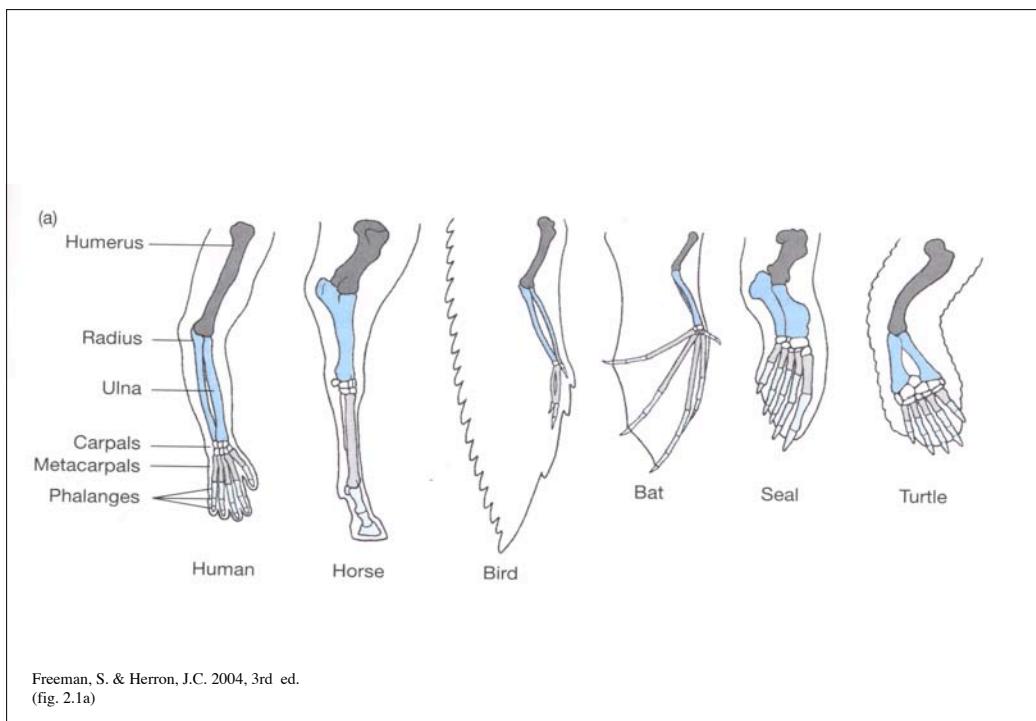
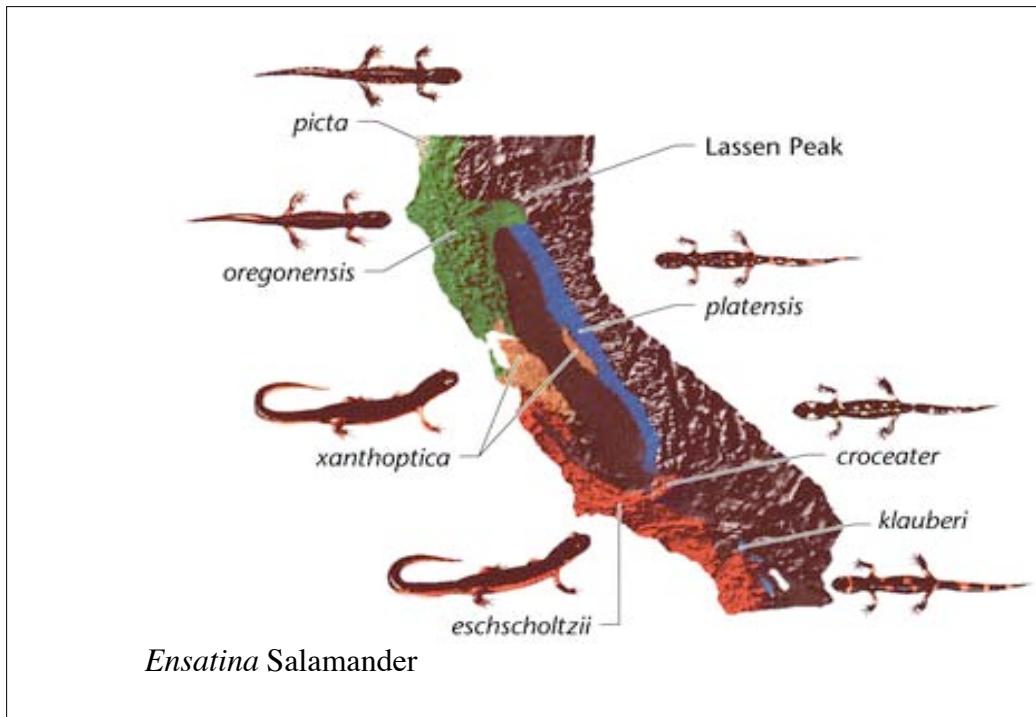
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		Second base													
		U			C			A			G			Third base	
First base		U	C	A	G										
	U	UUU Phenylalanine UUC Phenylalanine UUA Leucine UUG Leucine	F F L L	UCU Serine UCC Serine UCA Serine UCG Serine	S S S S	UAU Tyrosine UAC Tyrosine UAA Stop UAG Stop	Y Y	UGU Cysteine UGC Cysteine UGA Stop UGG Tryptophan	C C W	U C A G					
C	U	CUU Leucine CUC Leucine CUA Leucine CUG Leucine	L L L L	CCU Proline CCC Proline CCA Proline CCG Proline	P P P P	CAU Histidine CAC Histidine CAA Glutamine CAG Glutamine	H H Q Q	CGU Arginine CGC Arginine CGA Arginine CGG Arginine	R R R R	U C A G					
	C	AUU Isoleucine AUC Isoleucine AUA Isoleucine AUG Start (Methionine)	I I I M)	ACU Threonine ACC Threonine ACA Threonine ACG Threonine	T T T T	AAU Asparagine AAC Asparagine AAA Lysine AAG Lysine	N N K K	AGU Serine AGC Serine AGA Arginine AGG Arginine	S S R R	U C A G					
	A	GUU Valine GUC Valine GUA Valine GUG Valine	V V V V	GCU Alanine GCC Alanine GCA Alanine GCG Alanine	A A A A	GAU Aspartic Acid GAC Aspartic Acid GAA Glutamic Acid GAG Glutamic Acid	D D E E	GGU Glycine GGC Glycine GGA Glycine GGG Glycine	G G G G	U C A G					
	G														

Codon      Amino acid      Abbreviation

Freeman, S. & Herron, J.C. 2004, 3rd ed.  
(fig. 2.15)

