

EVOLUTIONARY STAGES OF THE PRINCIPAL GROUPS OF VERTEBRATA.*

STAGES OF THE PAIRED LIMBS.	CLASSES.	STAGES OF THE HEART.
I. <i>Adactylia</i> s. <i>Impinnata</i> . Without jaws and limbs.	1. <i>Acrania</i> .	I. <i>Leptocardia</i> . Cold-blooded; heart with one chamber; without lungs.
	2. <i>Cyclostomata</i> .	II. <i>Ichthyocardia</i> . Cold-blooded; heart two-chambered, with one atrium and one ventricle; heart containing venous blood only; without lungs.
II. <i>Polydactylia</i> s. <i>Pinnata</i> . With two pairs of fins.	3. <i>Pisces</i> .	III. <i>Amphicardia</i> . Cold-blooded; heart with three complete chambers, namely, with two atria and one ventricle, or (Reptilia) two ventricles with still incomplete septum; heart containing mixed venous and arterialized blood; with lungs.
	4. <i>Dipnoi</i> .	
III. <i>Pentadactylia</i> s. <i>Tetrapoda</i> . With two pairs of pentadactyle limbs (unless they have been lost by reduction).	5. <i>Amphibia</i> .	IV. <i>Thermocardia</i> . Warm-blooded; heart with four complete chambers, namely, two auricles and two ventricles; right half of the heart with venous, left half with arterialized, blood; with lungs.
	6. <i>Reptilia</i> .	
	7. <i>Aves</i> .	
	8. <i>Mammalia</i> .	

* Abridged from Haeckel's 'Systematische Phylogenie der Vertebraten,' § 14.