

facing facts

craniofacial development

pharyngeal arches, nasal gubernaculum,
nasal placode & pit; cranial meninges;
dural girdles; skull

Brian Freeman

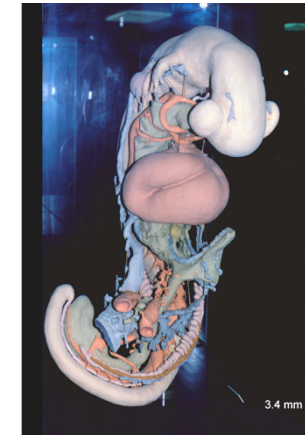
OSD, Berlin, Dec. 2014

www.drawingonanatomy.com.au

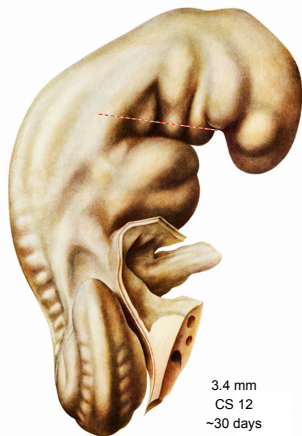


3.4 mm
CS 12

Bleischmidt E. *The Human Embryo*.
Documentations on Kinetic Anatomy, 1963

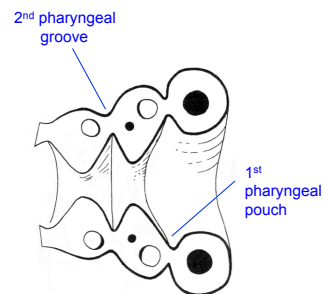


3.4 mm



3.4 mm
CS 12
~30 days

(Bleischmidt, 1963)



(Bleischmidt/Freeman, 2004)

Ernst Haeckel
(1834–1919)

"father of evo–devo"

The Biogenetic Law
= Haeckel's Law
(1868–1874)

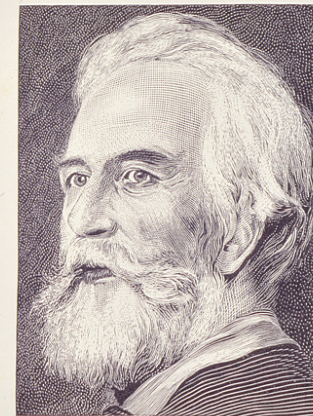
"...the history of the fetus is a
recapitulation of the history of the
race..."

"...ontogeny is a recapitulation of
phylogeny..."

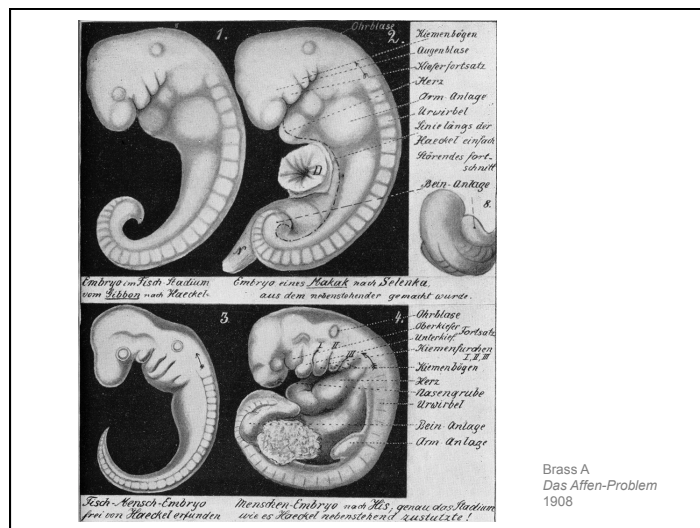
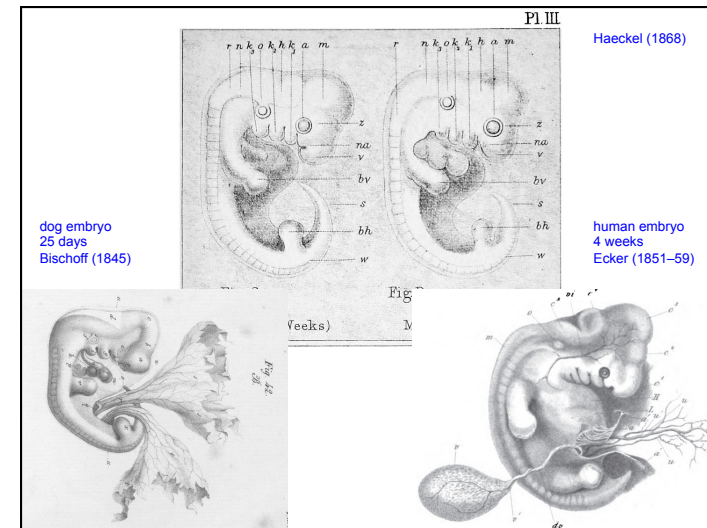
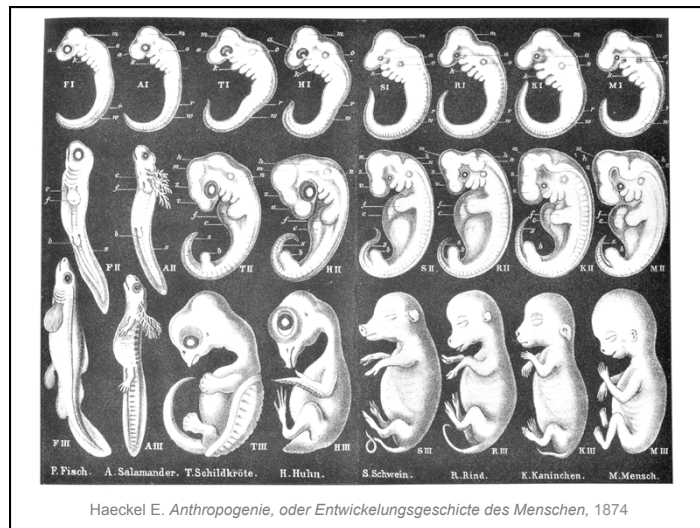
*"The Fundamental Law of Organic
Evolution"*

"...phylogenesis is the mechanical
cause of ontogenesis..."

ERNST HAECKEL



From the Painting by Franz von Leubach, 1890 (reproduced in "Jugend")



Haeckel's 'confession'

"...to cut short this unsavoury dispute, I begin at once with the remorseful confession that a small fraction of my numerous drawings of embryos (perhaps 6 or 8 per cent.) are really, in Dr. Brass's sense, 'falsified'..."

E. Haeckel, *Berliner Volkszeitung*, Dec 29, 1908

"...um dem ganzen wüsten Streite kurzerhand ein Ende zu machen, will ich nur gleich mit dem reumütigen Geständnis beginnen, daß ein kleiner Theil meiner zahlreichen Embryonenbilder (vielleicht 6 oder 8 von Hundert) wirklich (im Sinne von Dr. Braß) 'gefälscht' sind..."

