

Characteristics of Animals

eukaryotic

multicellular

lack cell wall

heterotrophic

mostly sex reprod

diverse & complex developmental strats

- gastrulation, symmetry, germ tissue

animal body plans: tissues

ectoderm outermost covers embryos surface

endoderm innermost, digestive tube

mesoderm middle, connective tissues

animal phylogeny- 'body plans'

combine morphological, molecular, fossil data

~ 35 animal phyla

body plan set of morphological and developmental traits

symmetry, tissues, body cavities

animal body plans: body cavities

coelomate true coelom

pseudocoelomate "fake" coelom

acoelomate no coelom

General points of agreement

animals share a common ancestor

sponges are basal animals

eumetazoa clade with true tissues

most animals are bilaterians

- 3 clades

animal body plans: gastrulation

cleavage rapid cell division in zygotes

blastula embryonic stage of multicellular hollow ball from cleavage

gastrula embryonic stage of dif. tissue layers created thru gastrulation

blasto-pore: opening on embryo.. usually becomes anus

protostomy vs deuterostomy

PROTOSTOMY	DEUTEROSTOMY
mouth first	anus first
spiral determinate	radial indeterminate
molluscs	chordates
bottom 8	middle 3



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Published 23rd March, 2022.
 Last updated 23rd March, 2022.
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