

Introduction to Biology. Lecture 20

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March 8, 2017



- 1 Where we are?
 - Origin of animals
- 2 Animals
 - Basic principles of animal body construction



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Where we are?

Origin of animals



Basic principles which drive animal evolution

- Prey and predator interactions
- Surface and volume
- Ecological pyramid



Stages of animal evolution

- Blastaea
- Phagocytella
- Gastraea
- Skeleton and all diversity of living animal phyla, including 7 phyla we study



Animals

Basic principles of animal body construction



Main organ systems in animals

- In higher animals, tissues are members of organs, and organs—of organ systems
- Every organ system is responsible for the particular aspect of animal life:
 - locomotion and support;
 - feeding, excretion and osmoregulation;
 - circulation and gas exchange;
 - signaling and reception;
 - reproduction.



Generalized animal



Summary

- The structure of animal body follows few basic principles of construction



For Further Reading



Skeleton.

<http://en.wikipedia.org/wiki/Skeleton>



Animal.

<http://en.wikipedia.org/wiki/Animal>

