

Study Guide for Introduction to Animal Physiology

Review the Animal Kingdom Characteristics

_____ % of all named animals are **Invertebrates**.

_____ % of all named animal are **Vertebrates**

> 35 different phyla - LOTS of DIVERSITY!!

Invertebrates are animals that lack a backbone. Huge diversity found here - *sponges, corals, starfish, insects, worms, etc.*

All 35 phyla have invertebrate members

Vertebrates are animals that have backbones. Much less diversity is seen here - *fish, amphibians, reptiles, birds & mammals*

Tissue: define –

ECM (extracellular matrix): define –

Animal tissues are characterized by **1) cell structure and function and/or by 2) the ECM found around the cells**. **Plant tissues didn't have ECM. Why wasn't it needed?**

Do all animal tissues form the same amounts of ECM?

ECM can be composed of different materials which gives the tissue certain form and function.

The ECM can be fluid

The ECM can be fibrous (protein fibers)

The ECM can be composed of proteoglycans

The ECM can be solid (minerals)

Connective Tissue:

Functions: _____ & _____ & _____

Connective tissues have _____ amounts of ECM compared to other tissues

Fill in chart!

Tissue Name	Location in the body	Type of ECM
Loose Connective tissue		
Dense Connective Tissue		
Blood		
Cartilage		
Bone		

Epithelial Tissues:

Animal Physiology Study Guide

Camilla Rothe



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