

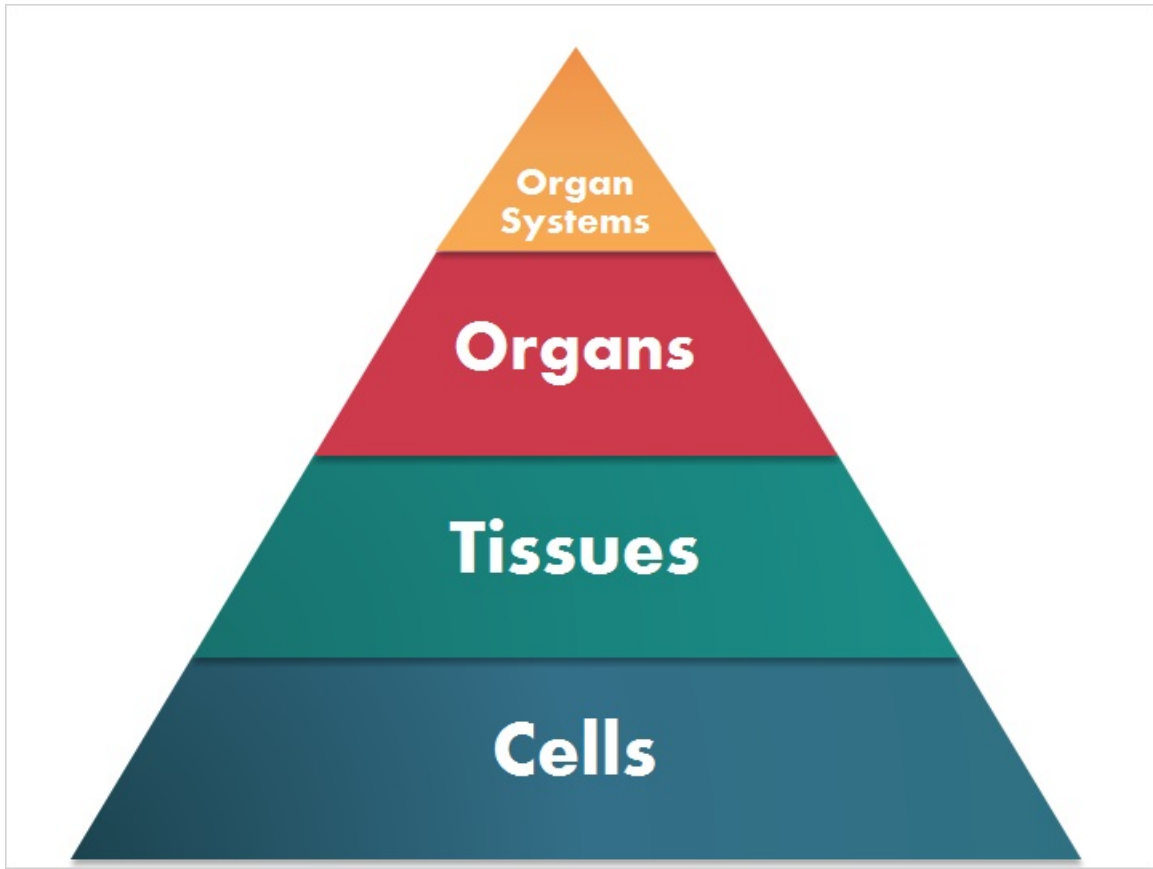
Module 4: Cell Biology - Growth and Reproduction
Topic 2 Content: Biological Hierarchy Notes



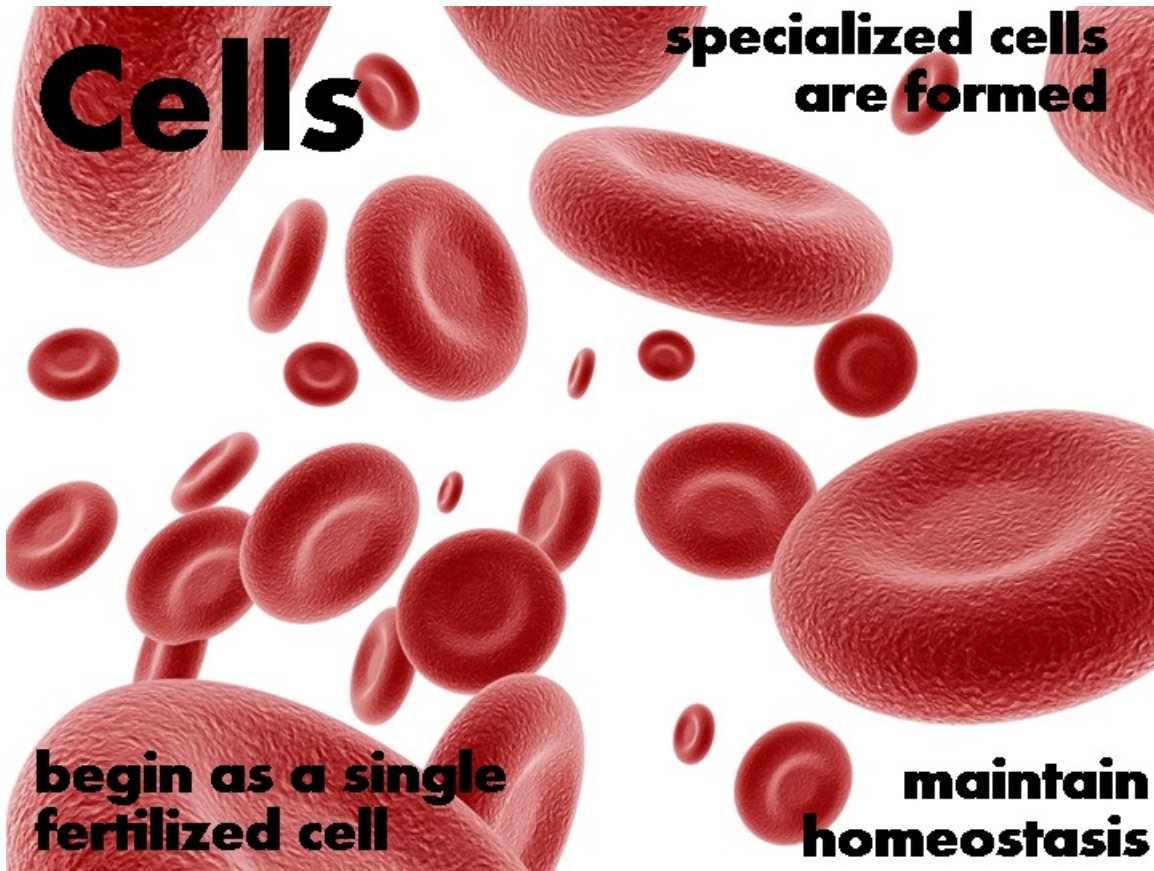
Biological Hierarchy

Click **NEXT** to get started.

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Within the human body, there is a hierarchy in the way in which cells come together to perform different functions. In this interactivity, click on each level of the pyramid to learn more. Begin with the “cells” level.



Cells

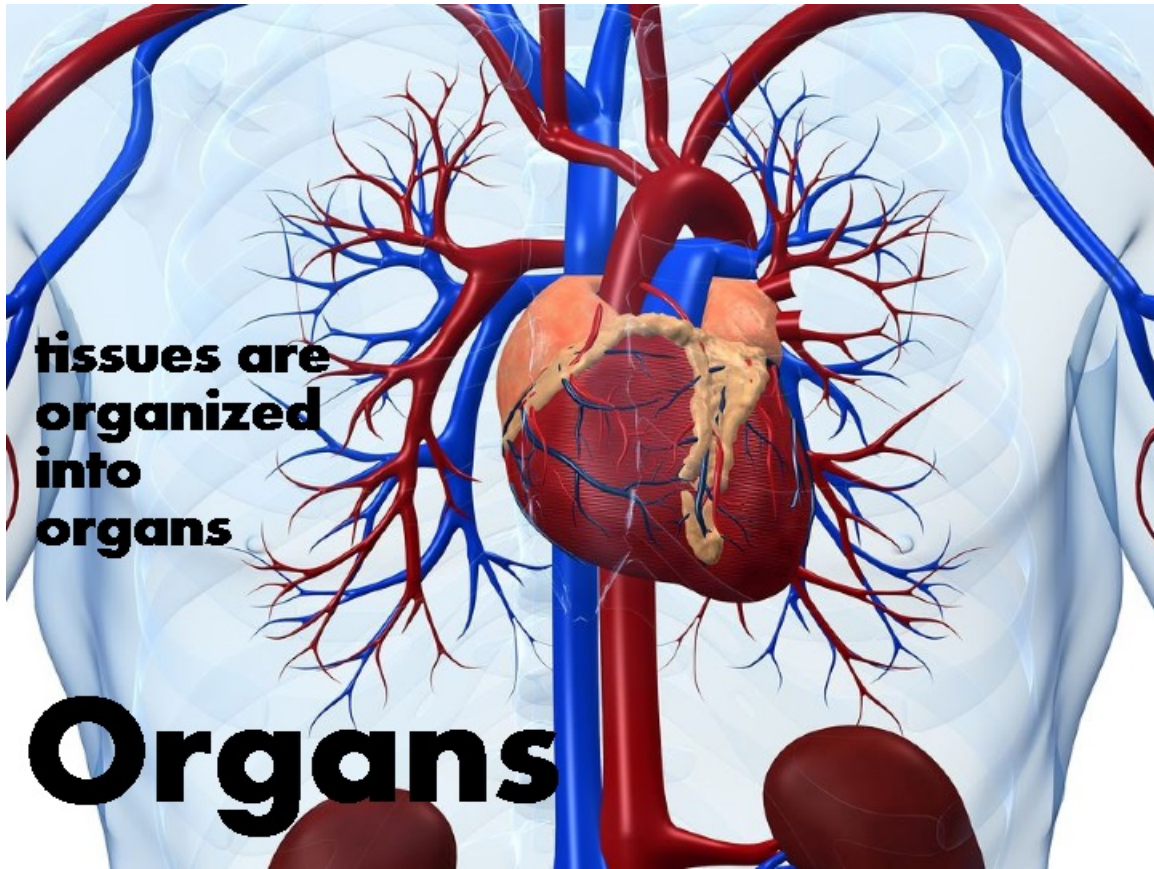
Multicellular organisms begin as a single fertilized cell that continually divides to become an adult organism. From that single cell, different types of specialized cells are formed. Multicellular organisms depend on the interactions between different cell types to maintain homeostasis.



Tissues

Cells that work together to perform a similar function form tissues. In the human body, blood cells work together as a part of blood tissue.

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Organs

Different types of tissues are further organized in organs, such as a human heart, which is composed of blood tissue, muscle tissue, and nerve tissue.

Organ Systems

**organs function
in coordination**

**maintain
homeostasis**



Organ Systems

Organs function in coordination with other organs to build organ systems, which interact to maintain homeostasis in the organism. Blood cells, blood tissues, and the human heart are part of the circulatory system.