

Lesson Plan

NEUROHEADWAY

Neuroscience Into Education

Histology

Part 1: Histology



What will we be looking at here...

1. Histology: What is it? Why is it important?
2. Cells: Building blocks of all living things
3. How do we study cells? (Microscopes and stains)
4. What are the parts of the cell?
5. What are the different types of cell?
6. What is the histology of some of the organs?

What is Histology?

Histology: The science that studies normal microscopic structures of the human body

Different to...

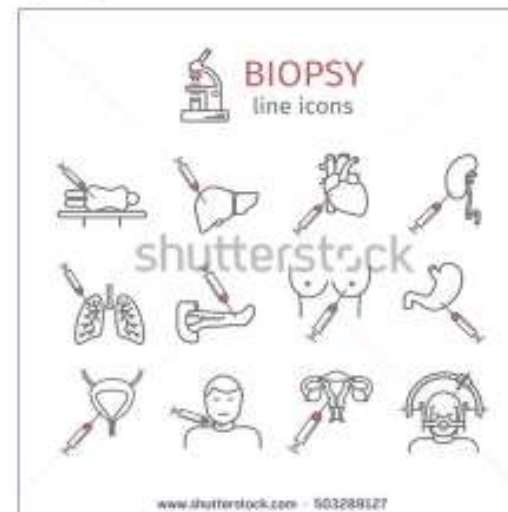
Anatomy: The study of larger structures visible to the eye



Why study Histology?

The Biopsy

- We need to know something about histology for when a person has a biopsy
- When someone has a biopsy...
 - They are given an anaesthetic
 - A doctor (usually a surgeon) uses a needle to get a small sample from the organ causing the problem
 - The biopsy is then studied under a microscope



Looking at the Biopsy

- A specialist type of doctor, called a pathologist looks at the biopsy under the microscope
- Their job is to work out if/what something is wrong
- But to tell if something is wrong, we need to know what normal is like → HISTOLOGY



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Histology: Summing Up...

- Histology is the study of what the
- It is important for when we want to look at biopsies to tell if an organ is normal or not

But what do we actually see when we study histology?

In one word... Cells