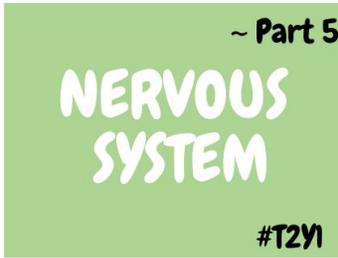


Note: All text underlined in blue are hyperlinks to external resources



Key learning outcomes:

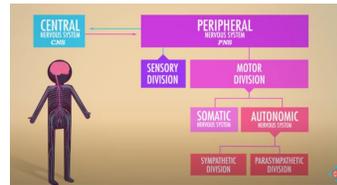
- Describe the organization of the nervous system
- Identify the features of a neuron and structure of nervous tissue
- Recap the physiology of action potentials
- Understand the differences between types of postsynaptic potentials
- Understand the types of summation

ANATOMY

There are many aspects to the nervous system, which can make it very complicated, but luckily your understanding will develop from PCS to CBL in your first year, so don't worry if you struggle to get a grasp of it! The following videos give a great overview of how it is divided into a central and peripheral system:



A great 8m [video](#) from Khan academy to set the foundations!



This crash course [video](#) also introduces more details about neurons as well!

If you would like to get an insight into neuroanatomy more specifically, check out this great [video](#) which actually features a human brain - *heads up if you are squeamish!* Don't worry about making notes from this video - just take an appreciation of the structures in 3D and where they are in relation to each other.



MICROANATOMY

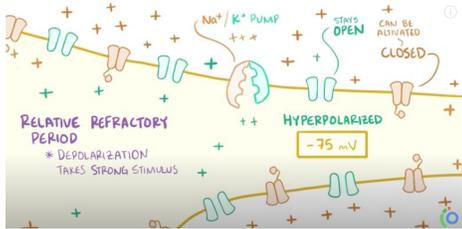
In previous resources, you have covered epithelial/ connective tissue and muscle. This resource now introduces the final of the four basic tissue types: nervous tissue.

- Start off by having a read through this histology [module](#) on nerves - this will describe the structure of a neuron and other important cells
- Check out these videos which give further explanation and information on the subtopics introduced in the module: [Professor Dave!](#) | [Khan academy](#)

As usual, it is important to see what structures look like under the microscope - here is a [video](#) which will talk you through some histology slides!

PHYSIOLOGY

To start off with, watch this [video](#) to get an insight of the different functions of the nervous system!

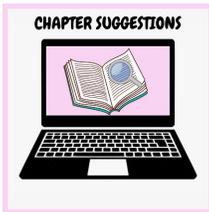
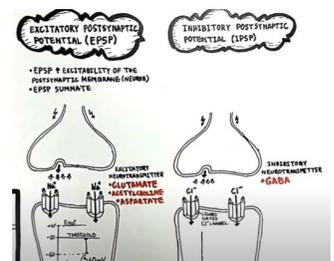


This resource will provide videos based on a key core concept surrounding the nervous system = **action potentials (APs) & synapses**. You should have covered this in your studies so here are some videos to recap what you should already know:

- APs: Crash course: [Part 2](#) | [Osmosis](#)
- Synapses: [Part 3](#)

However, in medicine, you will build on this knowledge. For example, this [video](#) will delve into the subtopic of **postsynaptic potentials** (comparing the differences between EPSPs and IPSPs).

- In addition, learn about a related concept known as **summation** [here](#).

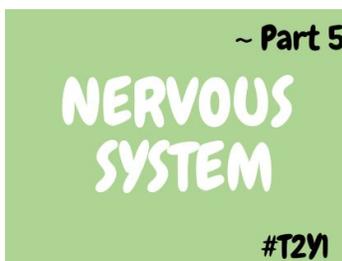


If you like to read instead, these online chapters give an overview of the function of the system, anatomy and microanatomy discussed in the videos:

- Nervous System and Nervous Tissue ([READ](#)) | another module ([READ](#))
- Article on neurophysiology - includes postsynaptic potentials at the end ([READ](#))

Try out these quizzes to see what you have learnt!

- Nervous system: [QUIZ](#)
- More physiology: [QUIZ 1](#) | [QUIZ 2](#)
- Action potentials: try out the first 11 short quizzes! ([TRY!](#))
- Anatomy challenge: can you identify parts of the brain? ([TRY!](#))



Hope you have found this resource useful! Once you have completed this, please give some short feedback - it will take 10 seconds to fill in! This will help me to get your opinions and check engagement! ([GIVE FEEDBACK](#))