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## eduMedia « *How to* » guide

Your school has subscribed to eduMedia teaching resources.

This is a general guide on how to use eduMedia simulations in your pedagogical projects.

eduMedia is a totally web based product dedicated to math and science education. Everything is available online at [www.edumedia-sciences.com](http://www.edumedia-sciences.com).

You'll find there a repository of 500 simulations (constantly growing) sorted subjects.

First of all, you have to register.

If you connect to eduMedia through the school district LMS, or if the IP recognition has been activated, then you are automatically connected.

If not, click on “log in” to enter the login name and password that we provided to your administrator right here.



The school license can be used by everyone in the school. It means that teachers, students, librarians, and even parents can access eduMedia content at school but also from home.

Once connected, the name of your school or school district will appear on the top.

If the right name is not displayed, please double-check your codes.



When you know what you are looking for, use the **search engine**.

But as you are a first time user, I suggest we begin by a quick tour of eduMedia content. Just click on the subject you are interested in.

A thumbnail suggests the simulations available for this subject (the screenshot below shows simulations for Life science » Human body » Physiology » Nervous system)

The screenshot displays the eduMedia website interface. On the left is a 'Browse' sidebar with a search bar and a tree view of subjects. The 'Physiology' category is highlighted with an orange arrow. The main content area is titled 'Nervous system' and shows 28 simulations in a grid. The thumbnails include: Brain Sections, Cranial CT scan, From stimulation to movement, Human brain, Brain Quizz, Nerve signal, Neuromuscular synapse #2, The synapse, Synapse and ionic mechanisms, and From the eye to the brain. At the bottom of the grid, a pagination bar shows '1 2 3 Next page »' with an orange arrow pointing to it. The footer contains site information, copyright, and language options.

Note that you can have more than one page of results.

Just click on a picture to launch the simulation, which will appear in a new window.

eduMedia simulations are usually very light (<100 Ko) and load very fast. However, some simulations are heavy and can take up to 10 seconds to load. Loading time can also increase if you face an Internet connection problem.

This is an example of a simulation which you can interact with. You will never have to use your keyboard to control the simulation. Everything works with your mouse or any device playing that role, like the pen of an interactive whiteboard or an interactive slate.

Level indicator

Suggestion



Tools are attached to every simulation:

Full screen view: absolutely necessary for projection in a classroom.

Download it for any offline use (\*). A .zip file will be stored on your desktop.

Give us your opinion on this simulation.

eduMedia provides short explanations, learning objectives and related keywords in the same window below each simulations:



## Introduction



### Summary

Synapse activity and related ionic mechanisms: Calcium ions flow into the presynaptic zone, through voltage-dependent channels, inducing exocytosis. Sodium ions flow into the postsynaptic neuron through receptors specific for a given neurotransmitter, inducing membrane depolarization.

### Goals

- \* To understand nerve signal transmission at the level of an excitatory synapse.

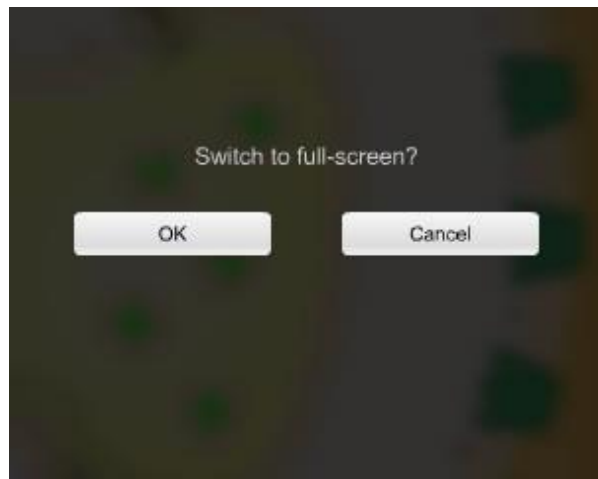
### Features

Click on  to play the movie and on  to stop.

Click on the "Labels" buttons to obtain labels.





## Student sheet

Transmission of impulses between neurons occurs at their point of junction, called the synapse. It is estimated that about 40% of the total surface of a neuron is composed of synapses. These have three main zones: the presynaptic and postsynaptic zones, and, between these, the intersynaptic gap (or intersynaptic cleft). The message is transmitted between neurons by chemical messengers known as neurotransmitters. When it reaches the end of an axon, the nerve impulse causes the release of



Now the floor is yours....

Every simulation has been specifically designed for a teacher use:

-  No sound: You are the voice of the simulation.
-  Tiny learning objects: a simulation can be used in different ways according various teaching methods.
-  Easy to use: Flash file format is really plug and play. eduMedia simulations are as easy to handle as slides.
-  Really interactive. We don't provide animation when a still image is sufficient. This ensures us of the pedagogical added value.

How can I be informed of the release of new simulations on eduMedia website?

Simply by subscribing to our [RSS](#) feed!  
You will receive a notification whenever a new simulation is published.

Keep in mind that all content is **downloadable(\*)**.





A student can prepare a presentation or you can plan a lesson which includes eduMedia content. You are sure you will be able to show what you prepared even if the classroom is not connected to the Internet. Downloading a simulation is useful if you want to embed it in a Power Point presentation or a web page.

How can I embed a Flash object in a Power Point slide?

Check this website:

[http://www.brainybetty.com/HowtoInsertFlashinPPT.viewlet/HowtoInsertFlashinPPT\\_launcher.html](http://www.brainybetty.com/HowtoInsertFlashinPPT.viewlet/HowtoInsertFlashinPPT_launcher.html)

## What else?

-  The file format of the simulation is very well adapted to special needs children (highly visual & easy to grasp simulations, no need to type on the keyboard, etc.).
-  You want to add sound? Use a screen and video capture software to create your own video tutorials for your class. Here is a very good free one: [www.camstudio.org](http://www.camstudio.org)
-  You can take screenshots to re-build a teaching sequence, a quiz or a still image for an exam.
-  Don't forget to visit our Frequently Asked Questions page on eduMedia website by clicking [here](#).

Can I use eduMedia Flash simulations on the interactive whiteboard installed in my classroom?

Yes and it is actually more interesting . eduMedia content has been specifically designed for IWB. The simulation is controlled by the interactive pen or your finger.

You can also upload the .swf file in the IWB personal resource library.

eduMedia simulations are just a tiny part of your pedagogical creativity but science teachers know how powerful it is to show a nice illustration of an abstract theory.

We are looking forward to hearing from you.

Should you have any further questions, fell free to contact [pedago@edumedia-sciences.com](mailto:pedago@edumedia-sciences.com).

(\*) for school License only.