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M. P. ROSS  
CHEMICAL TRANSMISSION OF  
THE EFFECTS OF NERVE  
IMPULSES

In both cases, the phenomenon had the appearance of a direct, unbroken conduction, to ganglion cell or muscle fibre, of the same

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propagated wave of physico-chemical disturbance as had constituted the preganglionic or the motor nerve impulse, with only a slight,...

Nerve impulse | physiology |  
Britannica

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The electrical messages, called nerve impulses, may travel as fast as 150m per sec or as slow as 0.2m/s a nerve impulse is an electrical signal that travels along the axon of a neurone to and from

...



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Nerve Impulse & Its Transmission:  
Impulse, Generation ...

The transmission of a nerve impulse along a neuron from one end to the other occurs as a result of electrical changes across the membrane of the neuron. The membrane of an unstimulated

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neuron is polarized—that is, there is a difference in electrical charge between the outside and inside of the membrane.

Understanding the Transmission of  
Nerve Impulses - dummies  
Chemical Transmission of Nerve

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Impulses: A Historical Sketch Z  
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Impulses: A Historical Sketch is a translation of the French edition ""Les Transmissions chimiques de l'influx nerveux"" published by Gauthier-Villars in Paris. Organized into 12 chapters, this book begins with a discussion on the definition and importance of the phenomenon

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of chemical transmission, with chapters specifically devoted to both cholinergic and adrenergic ones.

What is an electrical chemical nerve impulse - Answers  
-chemical substance in body tissue

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that facilitates transmission. of  
nerve impulses from one nerve to  
another. -has stimulant (excitatory)  
effect on some body parts. ie:  
skeletal muscles. -has depressant  
(inhibitory) effect on other body  
parts. ie: heart muscle. -also known  
as neurotransmitter.

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M. Race  
Nerve Tissue: Structure,  
Composition and Metabolism  
Nerve cells called neurons in your  
brain and spinal cord function to  
transmit and receive signals to and  
from other neurons in your body.  
These specialized cells transmit

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### Impulses A Historical Sketch 7

electrical impulses that control all your movements and basic functions, including those that you are unaware of. To do this, the nerves must ...

Nerve Impulse Transmission across  
Synapse - Online Biology ...

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Otto Loewi Nobel Lecture Nobel  
M. Pacq Lecture, December 12, 1936. The  
Chemical Transmission of Nerve  
Action. Natural or artificial  
stimulation of nerves gives rise to a  
process of progressive excitation in  
them, leading to a response in the  
effector organ of the nerves



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concerned.

## 2-Minute Neuroscience: Synaptic Transmission

When neurons are not conducting nerve impulses they are at their resting potential. There is a negative polarity across the

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membrane of about  $-60\text{mV}$  due to the presence of large negative ions in the axoplasm of the nerve.

Polarity maintained by Sodium/Potassium Pumps.

Chapter 8 Flashcards | Quizlet

When the nerve impulse reaches

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the end of the axon, there are some chemicals released from the neurotransmitters. They diffuse across the synaptic gap, which is the small space present between the axon and the receptors. Nerve impulses can be transmitted either by the electrical synapse or the

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chemical synapse.  
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Impulses  
Transmission of a nerve impulse:  
Resting potential and action  
potential. Like the gaps between the

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Schwann cells on an insulated axon, a gap called a synapse or synaptic cleft separates the axon of one neuron and the dendrites of the next neuron.

How nerve impulses are initiated and transmitted ...

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ADVERTISEMENTS: In this article we will discuss about the Nerve Tissue:-

1. Structure of a Typical Nerve
2. Chemical Composition of the Nerve Tissue
3. Metabolism
4. Nerve Impulse
5. Transmission of Nerve Impulse from One Neurone of Other
6. Nature of the Chemical

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Transmitters 7. Cholinergic and  
Adrenergic 8. Transmission of an  
Impulse from [...]

Transmission of nerve impulses  
Flashcards | Quizlet  
Chemical synapses have two  
important advantages over electric

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ones in the transmission of  
impulses from a presynaptic cell.

The first is signal amplification,  
which is common at nerve- muscle  
synapses.

3 Major Minerals That Aid in Nerve  
Impulses & Transmission ...



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A neuron transports its information by way of an action potential. When the nerve impulse arrives at the synapse, it may cause the release of neurotransmitters, which influence another (postsynaptic) neuron. The postsynaptic neuron may receive inputs from many

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additional neurons, both excitatory  
and inhibitory.

Neurotransmission - Wikipedia  
In my 2-Minute Neuroscience  
videos I explain neuroscience  
topics in 2 minutes or less. In this  
video, I discuss synaptic

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transmission. I describe the  
synapse, synaptic cleft, release of  
...

Chemical Transmission of Nerve  
Impulses | ScienceDirect  
The transmission of a nerve  
impulse along a neuron from one

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end to the other occurs as a result of electrical changes across the membrane of the neuron. The membrane of an unstimulated neuron is polarized—that is, there is a difference in electrical charge between the outside and inside of the membrane.

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The Chemical Transmission of  
Nerve Action - NobelPrize.org

CHEMICAL TRANSMISSION OF THE  
EFFECTS OF NERVE IMPULSES.

\*The Linacre Lecture of St. John's  
College, Cambridge, delivered on  
May 5th, 1934, in the Department of

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Physiology, Cambridge. This article  
has been cited by other articles in  
PMC.

Neurotransmitters, Synapses, and  
Impulse Transmission ...

Transmission of a nerve impulse is  
called an action potential and is

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conducted by a part of the nerve cell, or neuron, that is like a long cord and is called an axon. At the end of the axon are ...

Some Recent Extensions of the  
Chemical Transmission of the ...

The nerve impulse is a wave of

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depolarization traveling along the axon of the motor nerve such that the resting membrane potential of about  $-70$  millivolt is reversed, becoming briefly positive. At the nerve terminal, the nerve impulse causes voltage-gated calcium channels at the active zones....



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Transmission of Nerve Impulses -  
cliffsnotes.com

Mechanism. Figure: Nerve impulse  
transmission through Synapse  
When nerve impulse reaches the  
pre-synaptic knob, it depolarized  
the presynaptic membrane and

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causes the opening of voltage  
gated calcium channel. Diffusion of  
 $\text{Ca}^{++}$  ion in the presynaptic knob  
causes movement of synaptic  
vesicle to the surface of the knob.

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[0bbf051e6b7c3c60921f39b1aa47ad4](https://doi.org/10.1002/9781118471111.ch3)

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