

# The Physiology Of Excitable Cells

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Excitable cells include nerve, sensory and muscle cells and they are studied by students of physiology, neuroscience, cell biology and biophysics. The text is well known among students and researchers for its thoroughness and clarity. Fundamental concepts are explained and key experiments are examined in some detail.

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Cambridge University Press, New York, NY, 1979. \$45.00  
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Excitable cells can respond to a stimulus by a changing their membrane potential. This may be mediated: Chemically e.g. ACh receptors causing Na<sup>+</sup> channels to open. Physically Pressure receptors physically deforming and opening Na<sup>+</sup> channels. Stimulating an excitable cell increases Na<sup>+</sup> permeability This increases (i.e. makes less negative) membrane potential

## **Excitable Cells · Part One**

Definition: Refers to the ability of some cells to be electrically excited resulting in the generation of action potentials. Neurons, muscle cells (skeletal, cardiac, and smooth), and some endocrine

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cells (e.g., insulin-releasing pancreatic  $\beta$  cells) are excitable cells.

### **Excitable cell - Definition - Glossary - PhysiologyWeb**

nerve cells (neurons) are excitable. The color photo (courtesy of Julie H. Sandell and Richard H. Masland) is of a single inter neuron in the retina of a rabbit. The cell has been injected with a fluorescent dye to reveal all its branches. Each of the small knobs at the tips of the branches makes a synapse with another cell in the retina.

### **Excitable Cells - Biology Pages**

1) Soma/Cell body- Directs synthesis of neurotransmitters. 2) Dendrites- areas which have receptors for NT, receive stimuli from other cells and have large surface area. 3) Axon- carries AP to other nerve cells/effectors- Axon hillock is a special site with high amount of VG Na<sup>+</sup>channels that usually generates Aps.

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Physiology Muscle fibers and neurons are regarded as electrically excitable cells because their plasma membranes exhibit voltage changes in response to stimulation. The study of the electrical activity of cells, called electrophysiology, is a key to understanding nervous activity, muscle contraction, the heartbeat, and other physiological phenomena.

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### **Electrically Excitable Cells - Physiology - AmeriCorps ...**

<https://www.O2Labz.com> - An alteration in the electrical potential surrounding the cell membrane causes a neuron to produce a nerve impulse or triggers muscul...

### **The Excitable Cell And Resting Membrane Animation - YouTube**

This new edition of David Aidley's text for students of physiology, neuroscience, cell biology and biophysics includes extensive revisions and restructuring for an up-to-date and clear account of the fundamental concepts and key experimental work in the study of excitable cells.

### **Physiology of Excitable Cells 4ed: Amazon.co.uk: Aidley**

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## **The Physiology of Excitable Cells by David J. Aidley (1998**

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While response to stimulus is a characteristic of all living tissues, excitable cells such as nerves and muscles have the ability to generate signals that may be quickly transmitted to other cells. For individual organisms, such cells organize responses to external and internal stimuli at a global level.

## **Excitable Tissue - an overview | ScienceDirect Topics**

Refers to cells that do not generate action potentials. With the exception of neurons, muscle cells, and some endocrine cells, all cells in the body are non-excitable. With the exception of neurons, muscle cells, and some endocrine cells, all cells in the

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### **Non-excitable cell - Definition - Glossary - PhysiologyWeb**

Physiology MCQs: Excitable tissue – nerve, muscle, neurotransmission, reflexes, pain. 07/05/02. The following pairs are correct EXCEPT. Angiotensin 2 – activates phospholipase C. Insulin – increases tyrosine kinase activity of cytoplasmic portions of transmembrane receptors. ANP – increases cGMP in cell

### **Physiology MCQs: Excitable tissue - nerve, muscle ...**

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