Open Peer Review on Qeios

Voltage-Gated Sodium Ion Channel Activation

National Cancer Institute

Source

National Cancer Institute. <u>Voltage-Gated Sodium Ion Channel Activation</u>. NCI Thesaurus. Code C88551.

A process that involves detection of alteration to the voltage across a membrane, and results in opening of the channel to become selectively permeable to sodium ions. This interaction plays a key role in conduction of nerve impulses throughout the central and peripheral nervous systems. Deficiencies in this process may result in various channelopathies, featuring epilepsy, seizures and paralysis.