Foundations of neurophysiology

Cellular components of the brain

Neurons

Classified by

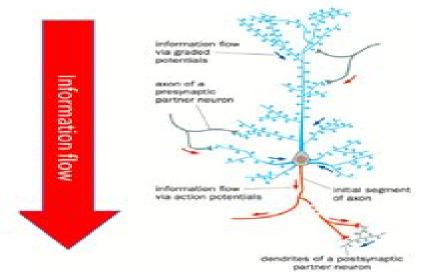
- Morphology and structure
- Location
- Phenotype (functional and chemical characteristics)
 - Functional: what it does on post-synaptic cells or influences on behaviour
 - Identified by electrophysiological graphs or observing effects on macro-behaviour
 - Chemical: what NT it produces and release
 - Identified by immunohistochemistry, mRNA and genetic markers

Tonically active: has a consistent basal rate of activity without any additional input (but can be influenced)

Information flow

Dendrite → cell body →axon

- Axon can attach to dendrite or soma
- Myelin insulates action potential propagation



Glia

· Schwann cells are PNS counterpart of oligodendrocytes

Foundations Of Cellular Neurophysiology

G Psacharopoulos

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