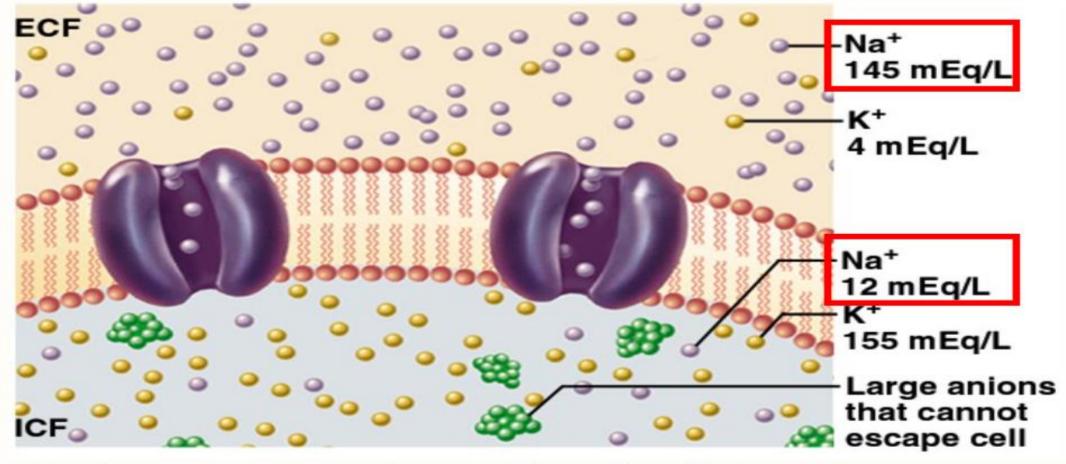
UNIT-I Nervous system Part-II

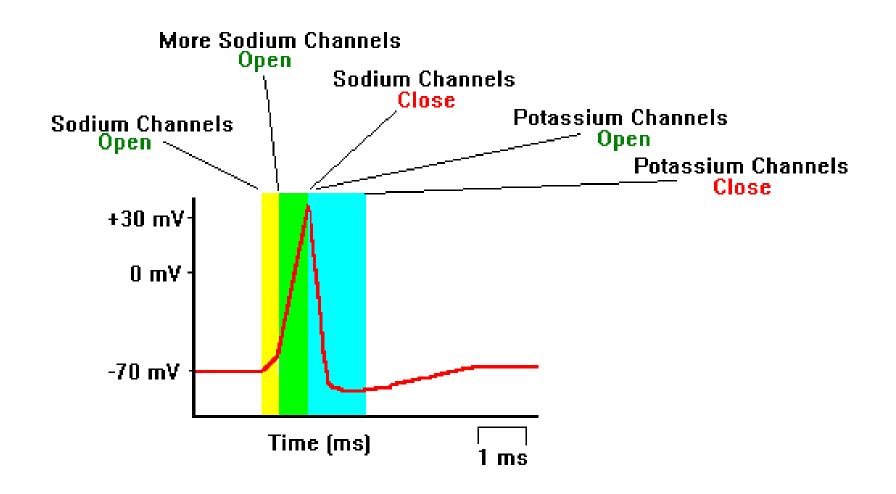
ELECTROPHYSIOLOGY

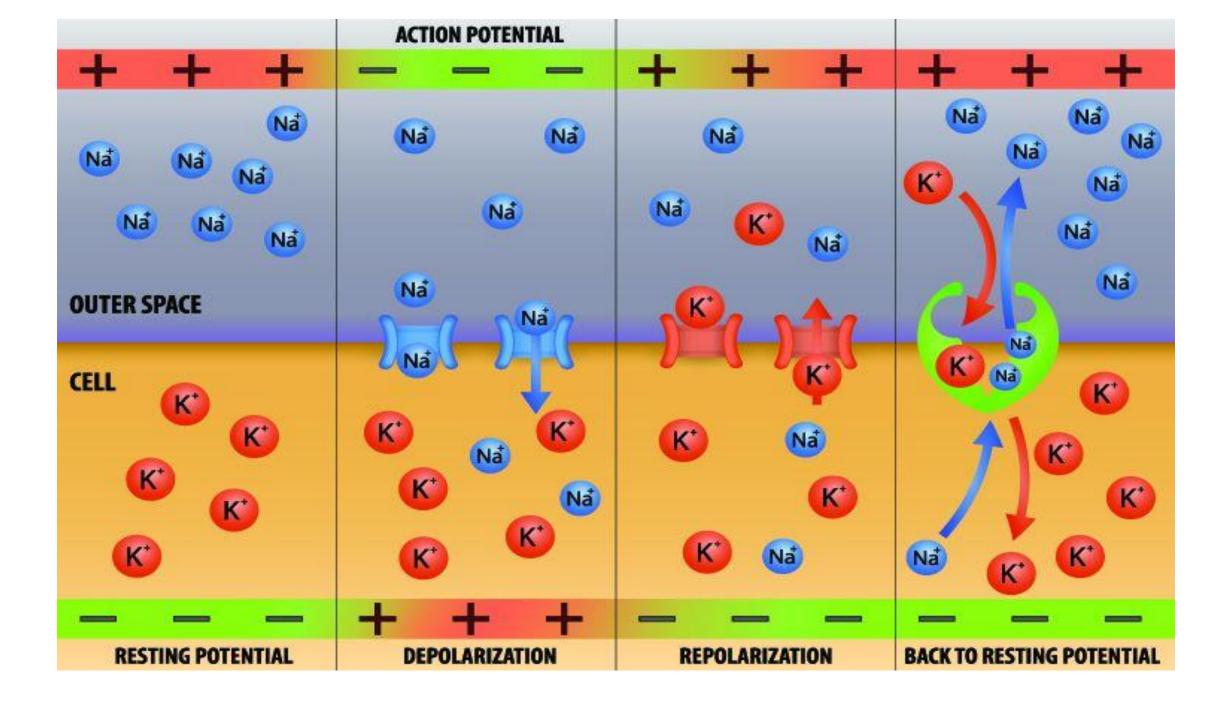
- Neuron is a modified cell and it contain cell body which contain all cell organelles and nucleus in which flow of ions takes place
- It includes measurement of the lectrical activity of neurons. It includes the flow of ions in biological tisuue
- Every cell contain plasma membrane and these ions present inside and outside the plasma membrane.
- Na+ ion presents outside the cell at high concentration, so it is called as extracellular ion.
- k+ ion present outside the cell, and it termed as intracellular ion.
- Also some ions and proteins are present inside the cell

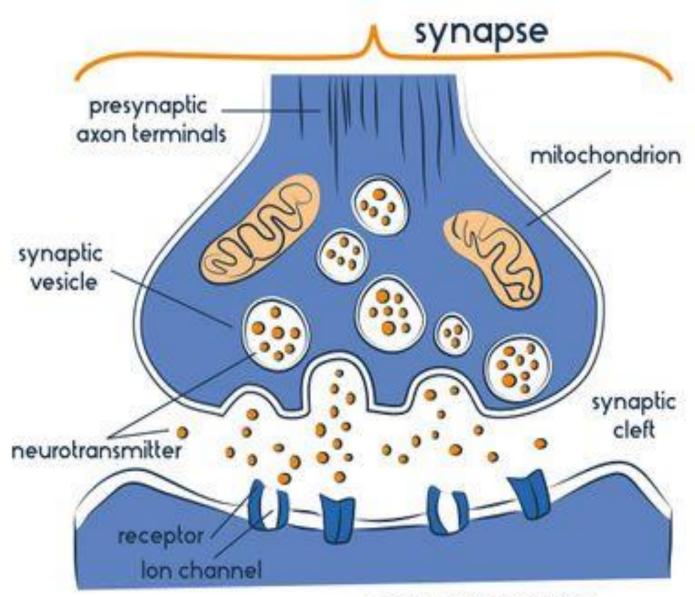
Ionic Basis of Resting Membrane Potential



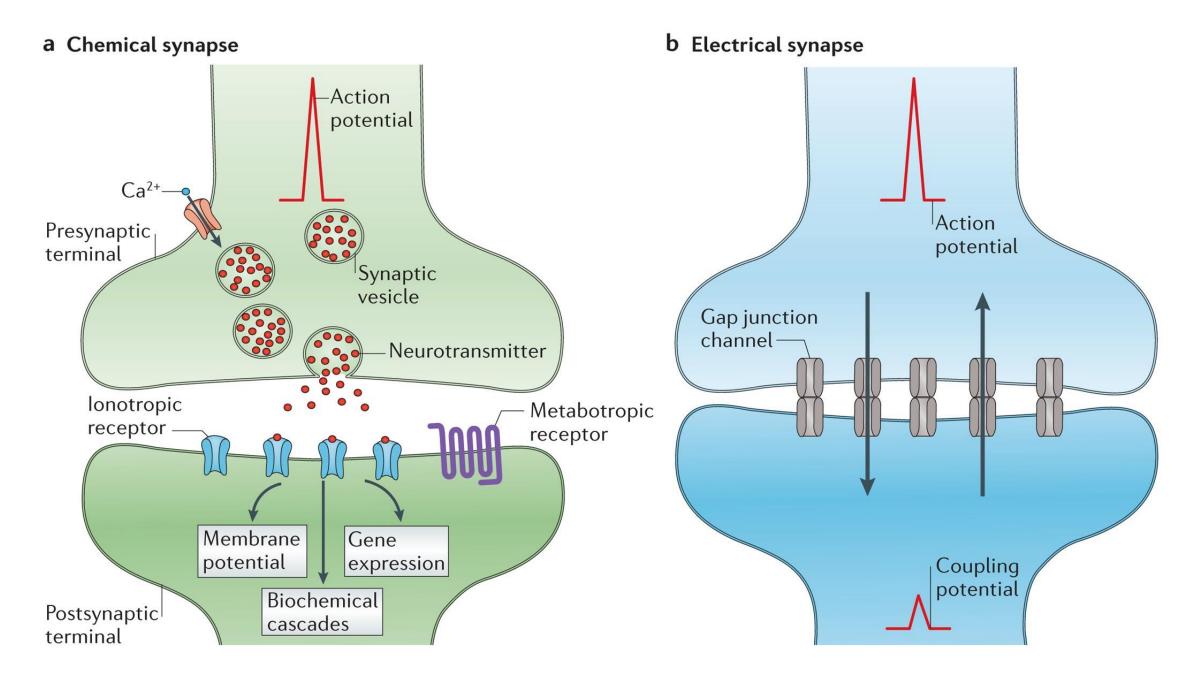
- Na⁺ concentrated outside of cell (ECF)
- K⁺ concentrated inside cell (ICF)





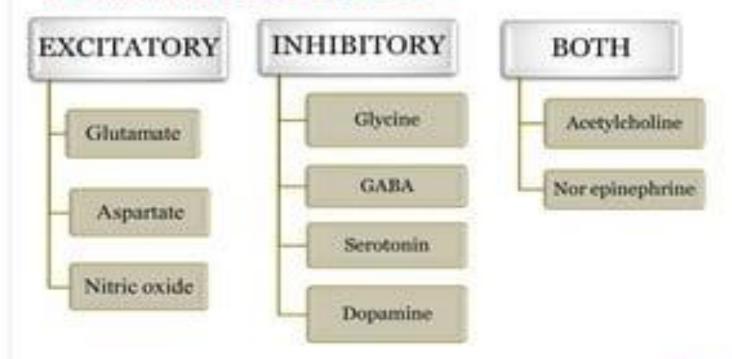


postsynaptic dendrite



TYPES OF NEUROTRANSMITTERS

Classification based on Action



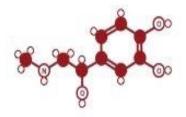


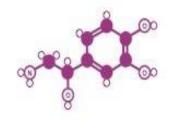
ADRENALINE

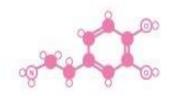
NORADRENALINE

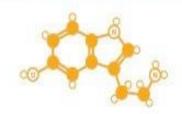
DOPAMINE

SEROTONIN









Fight or flight neurotransmitter

Concentration neurotransmitter

Pleasure neurotransmitter

Mood neurotransmitter

GABA

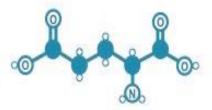
ACETYLCHOLINE

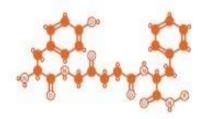
GLUTAMATE

ENDORPHINS









Calming neurotransmitter

Learning neurotransmitter

Memory neurotransmitter

Euphoria neurotransmitter