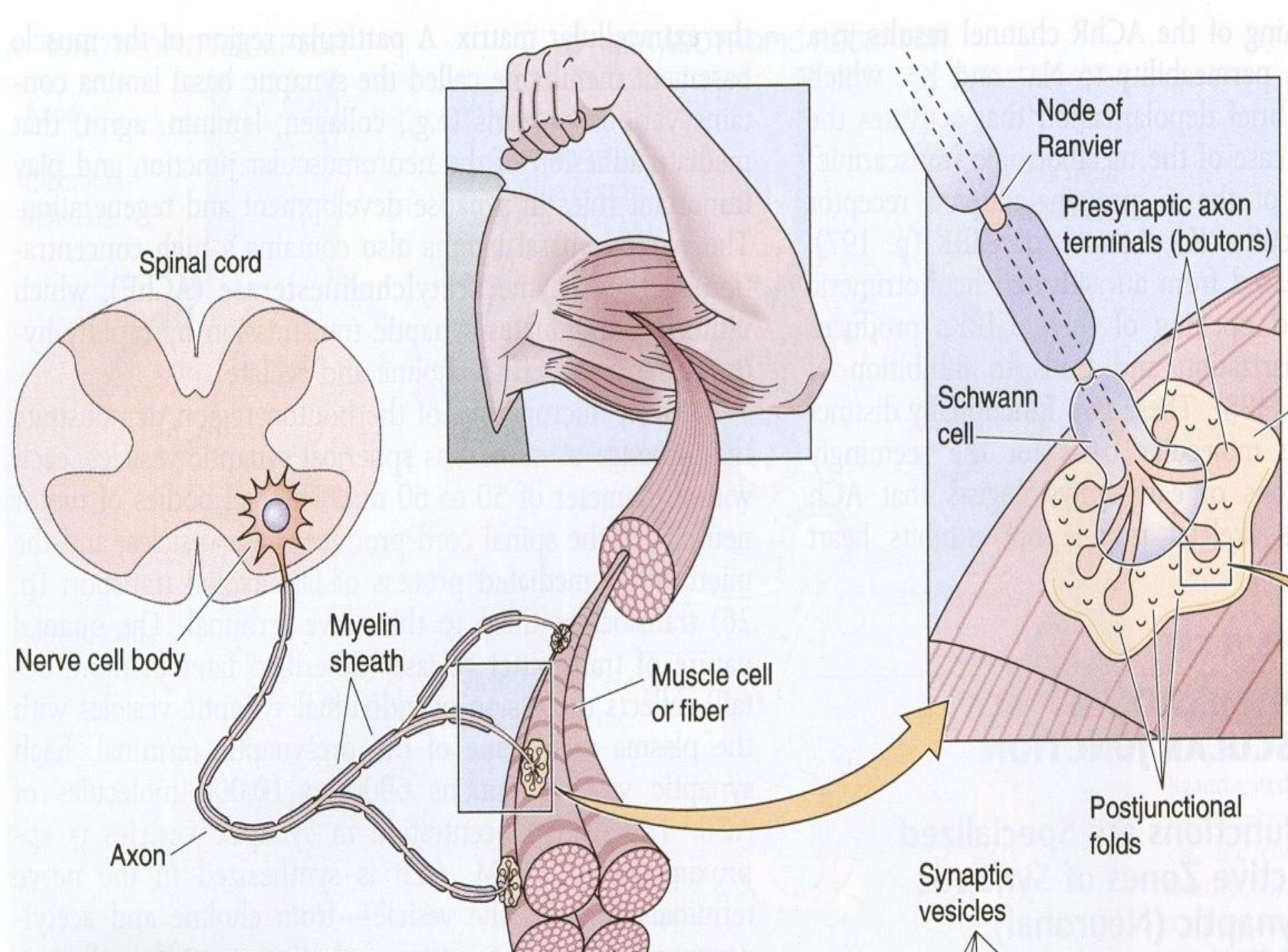


Сигналы



Spinal cord

Nerve cell body

Myelin sheath

Axon

Muscle cell or fiber

Node of Ranvier

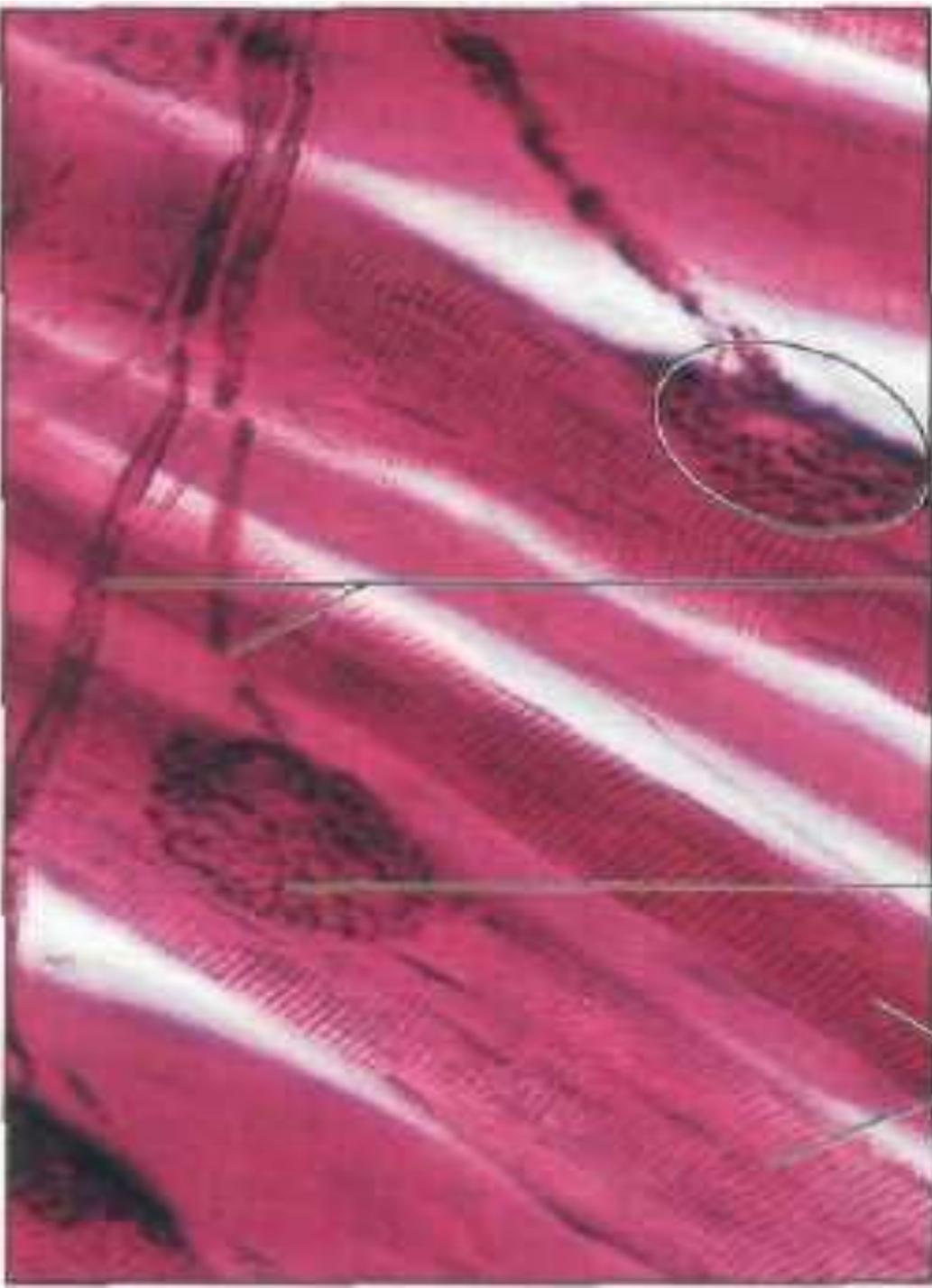
Presynaptic axon terminals (boutons)

Schwann cell

Postjunctional folds

Synaptic vesicles

Нервно-мышечный синапс



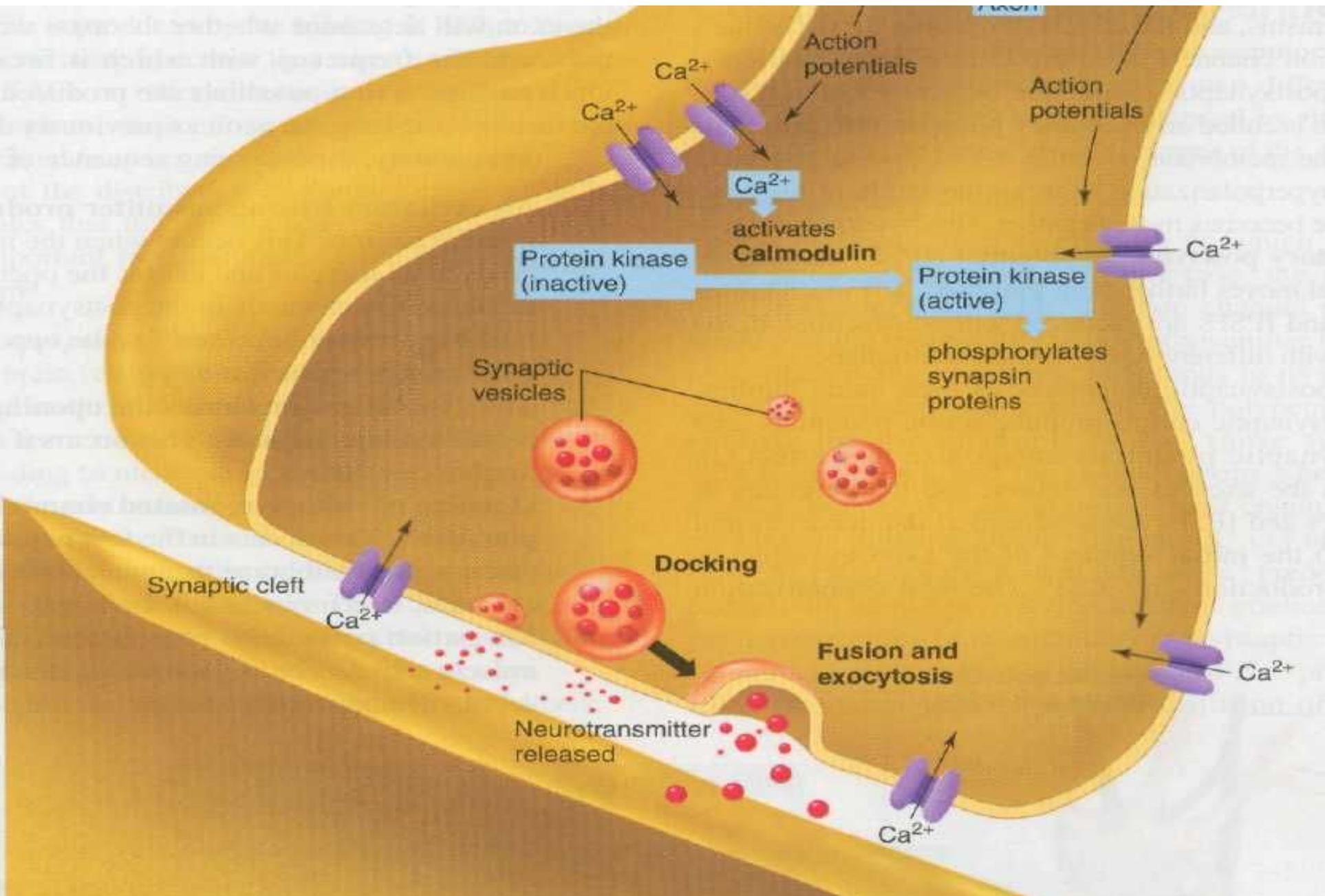
Neuromuscular junction

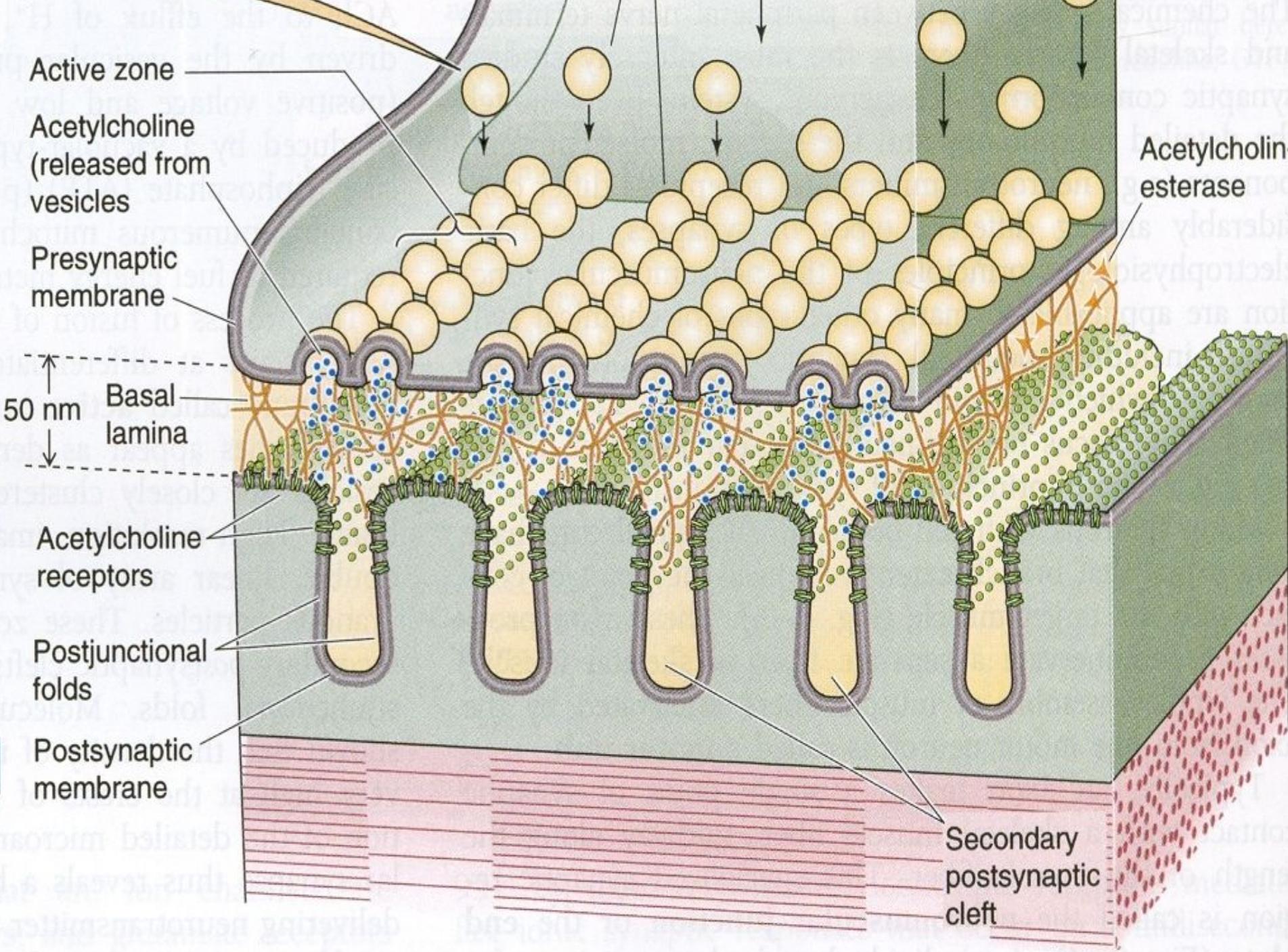
Somatic motor axons

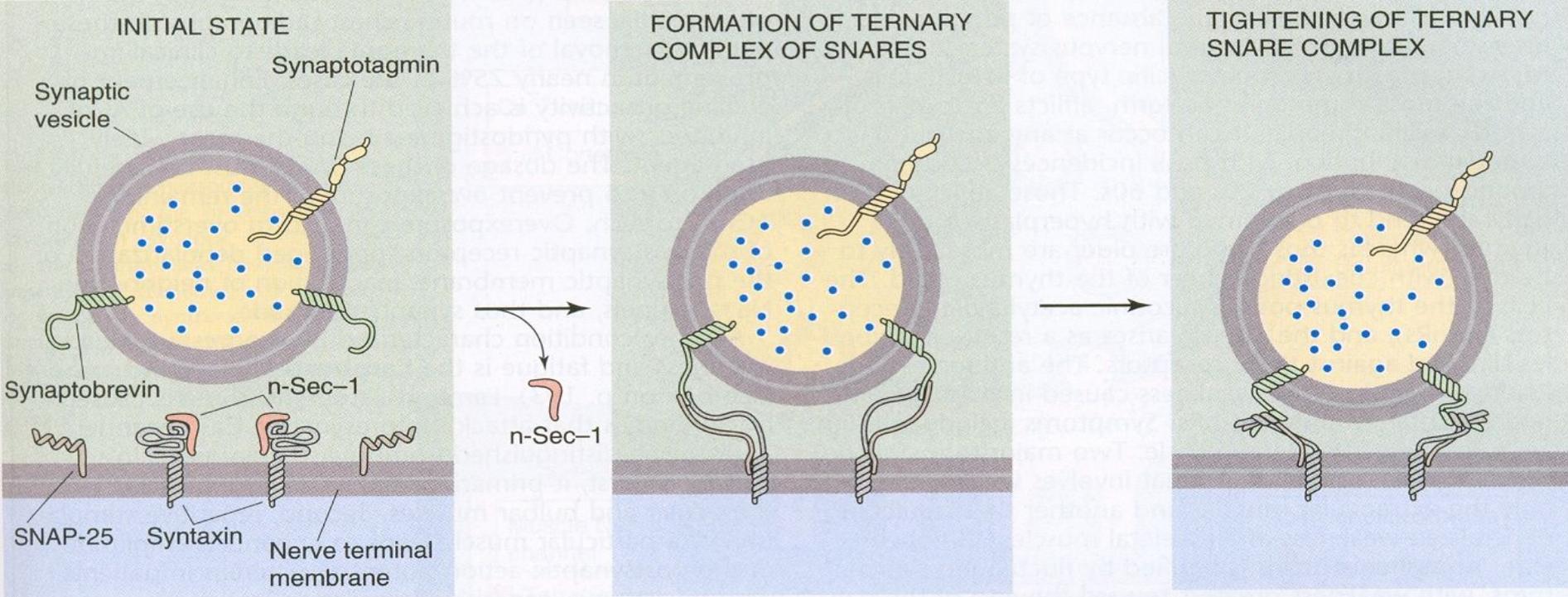
Motor end plate of muscle

Muscle fibers

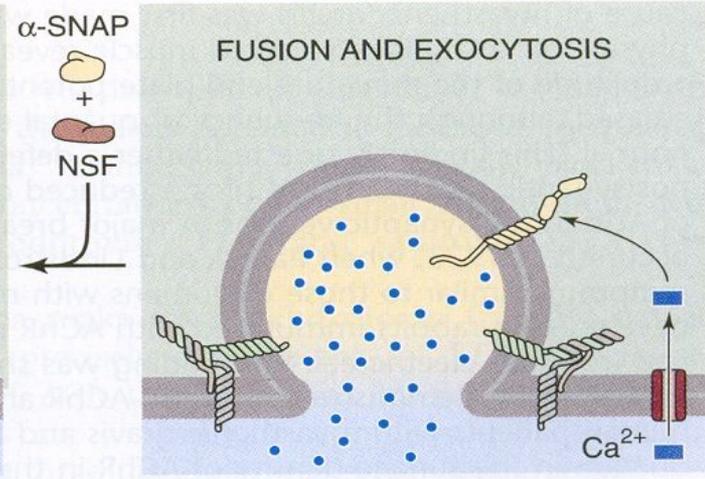
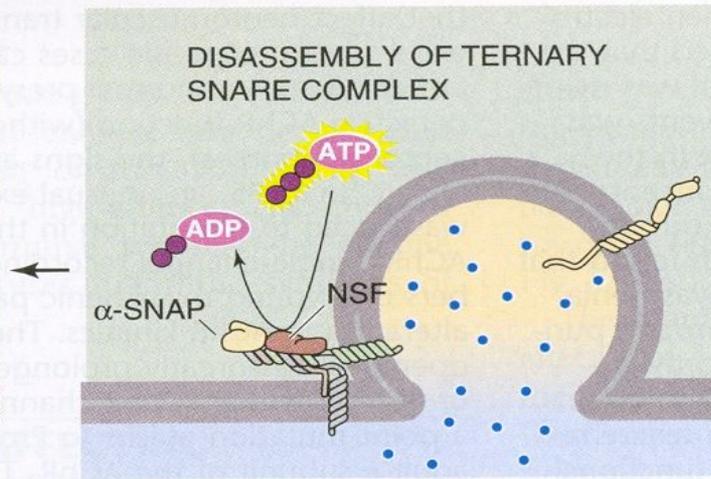
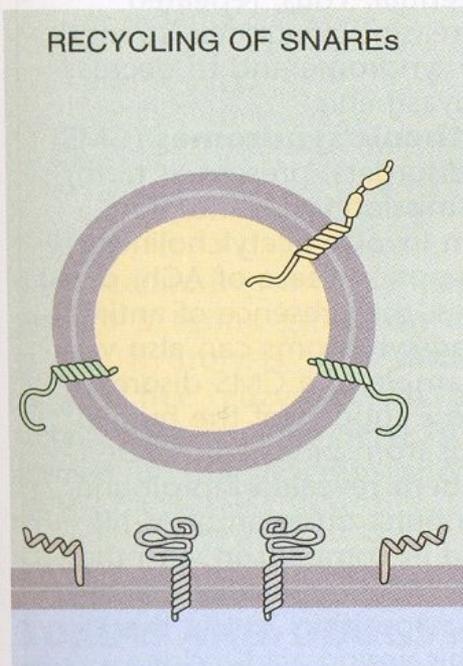
Освобождение нейротрансмиттера



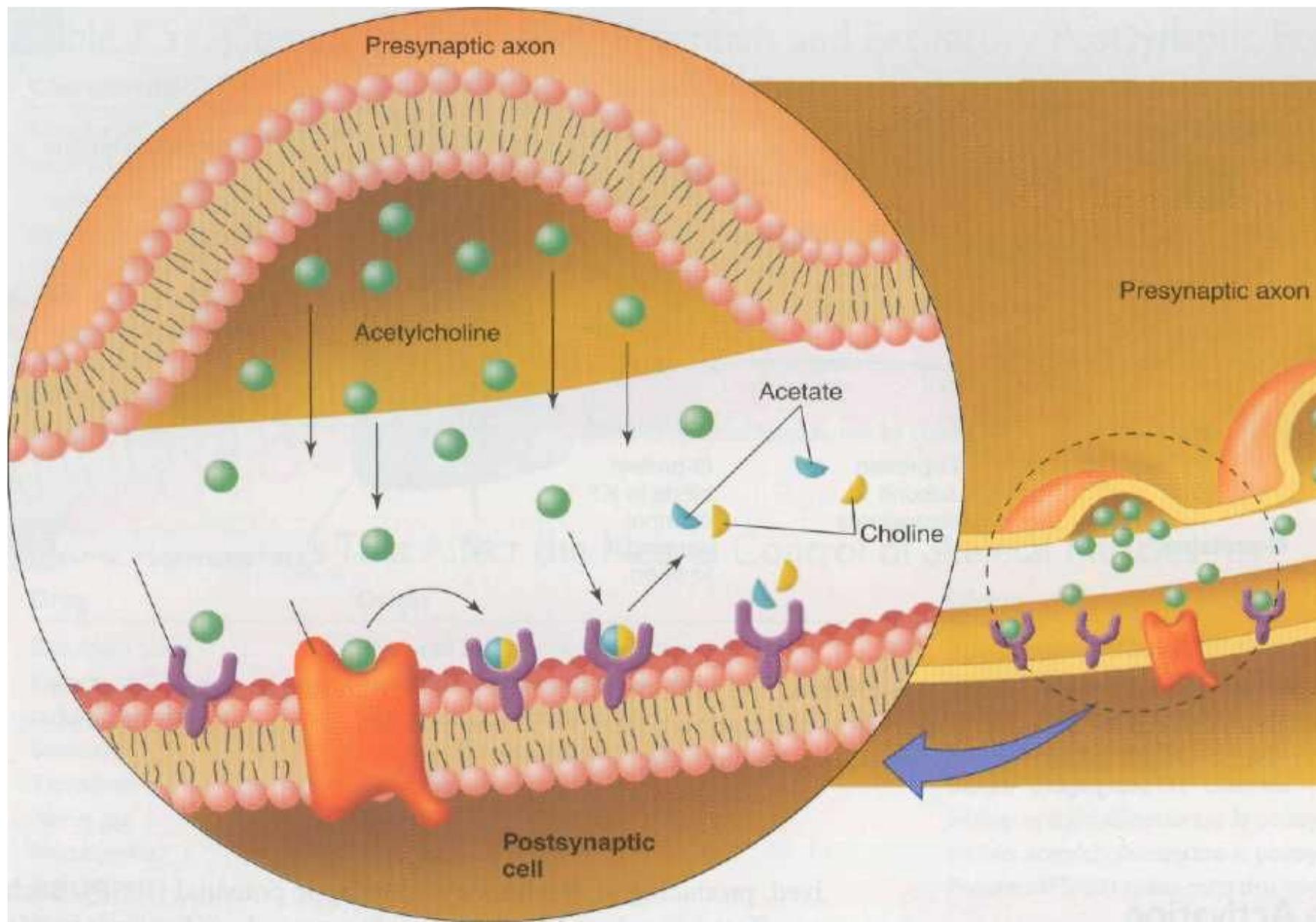




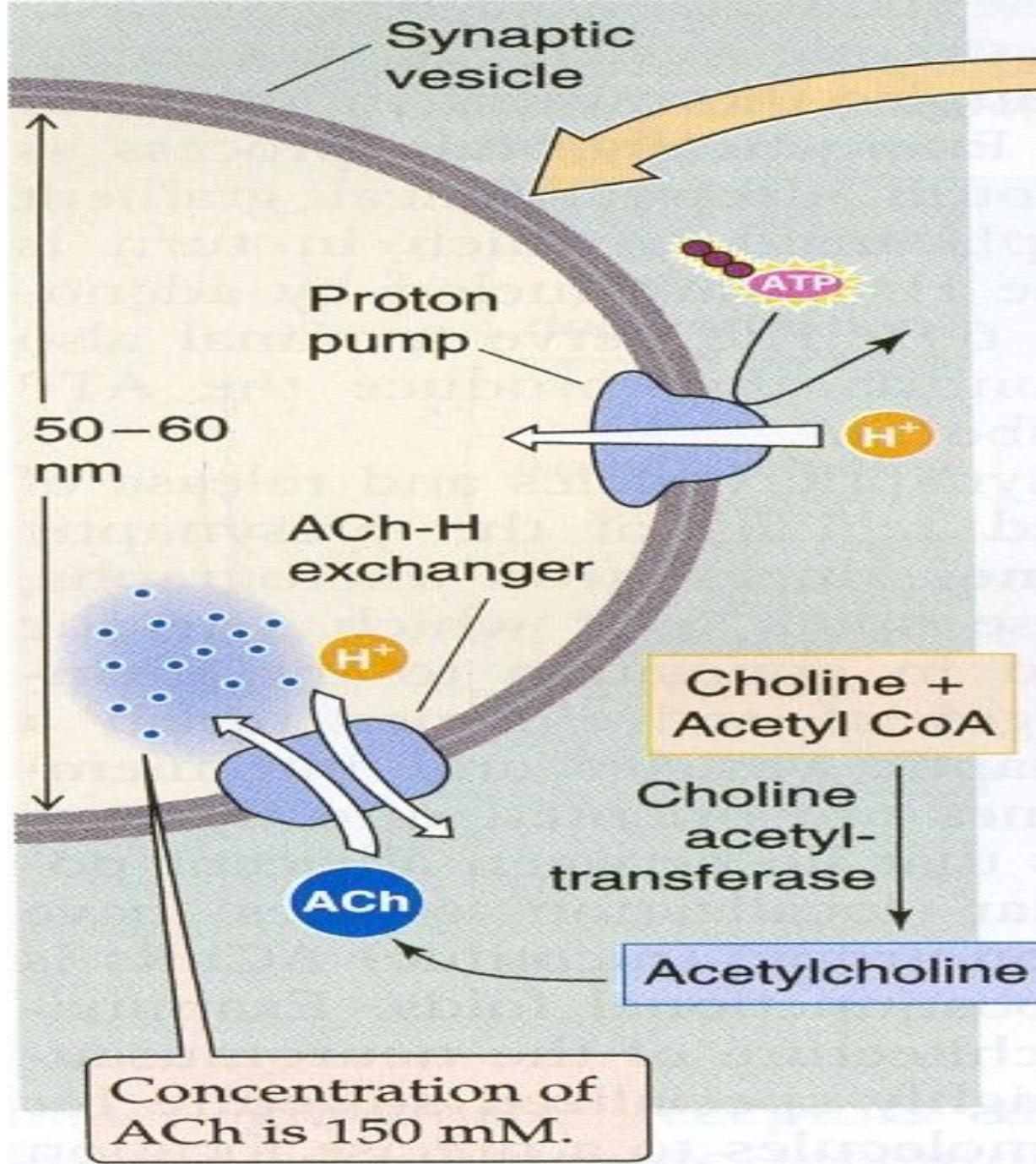
Механизм освобождения нейротрансммиттера



Действие холинэстеразы

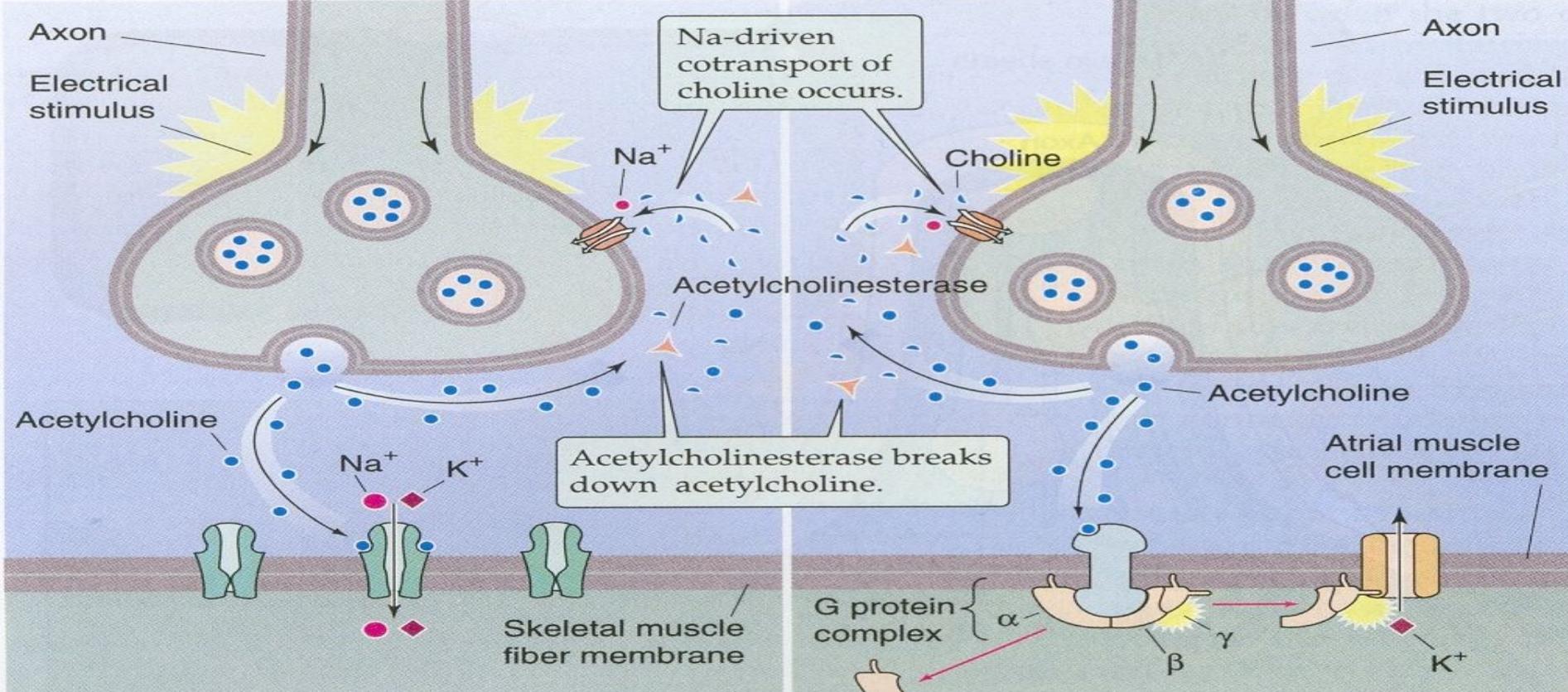


Синаптическая везикула



A IONOTROPIC RECEPTOR

B METABOTROPIC RECEPTOR

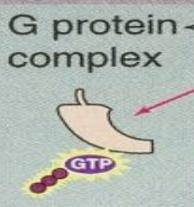


Nicotinic ACh receptor channel activation

Membrane depolarization

Action potential excitation

Muscle contraction



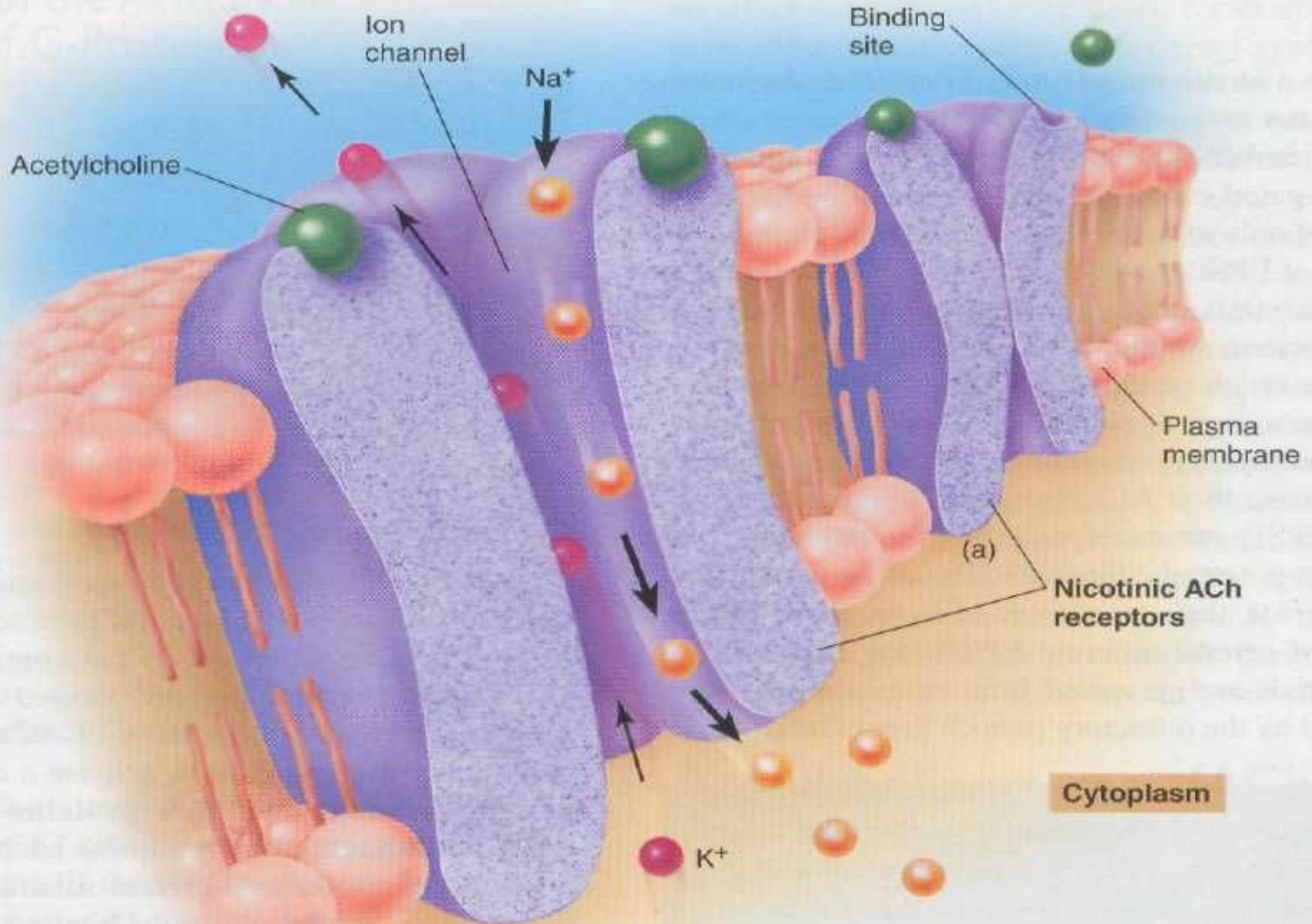
Muscarinic ACh receptor activation

Release of α -GTP + $\beta\gamma$ from the heterotrimeric G protein

Activation of inward rectifier K⁺ channel by $\beta\gamma$

Membrane hyperpolarization

Н-холинорецепторы



M-холинорецепторы

