

IONIC BASIS OF THE ACTION POTENTIAL

OBJECTIVES

1. Macroanalysis of membrane Na^+ and K^+ current during action potential.
2. Properties of voltage-sensitive Na^+ channels.
3. Properties of voltage-sensitive K^+ channels (delayed outward rectifier / K_v).

REFERENCES

1. Hodgkin, A.L. and B. Katz 1949. The effects of sodium ions on the electrical activity of the giant axon of the squid. *J. Physiol.* 108:37-77.
2. Hodgkin, A.L. and A.F. Huxley. 1952. A quantitative description of membrane current and its application to conduction and excitation in nerve. *J. Physiol.* 117:500-544.