

Matthew Ning	resting potential	depolarization	max polarization	repolarization	hyperpolarization
Typical Potential (mV)	-70	-70 to 40	40	40 to -100	-100 to -70
Voltage-gated Na ⁺ Channel	closed	opened	inactivated (2nd)	inactivated	inactivated
Voltage-gated K ⁺ Channel	closed	closed	opened (1st)	opened	opened
leaky K ⁺ Channel	opened	opened	opened	opened	opened
[Na ⁺]	favor influx	favor influx	favor influx	favor influx	favor influx
V(Na ⁺)	favor influx	influx to efflux	favor efflux	efflux to influx	favor influx
[K ⁺]	favor efflux	favor efflux	favor efflux	favor efflux	favor efflux
V(K ⁺)	favor influx	influx to efflux	favor efflux	efflux to influx	favor influx
net Na ⁺ gradient	favor influx	favor influx	ee	favor influx	favor influx
net K ⁺ gradient	ee	favor efflux	favor efflux	ee	ee

Na⁺ and K⁺ concentration do not change during action potential
electrochemical equilibrium (ee)