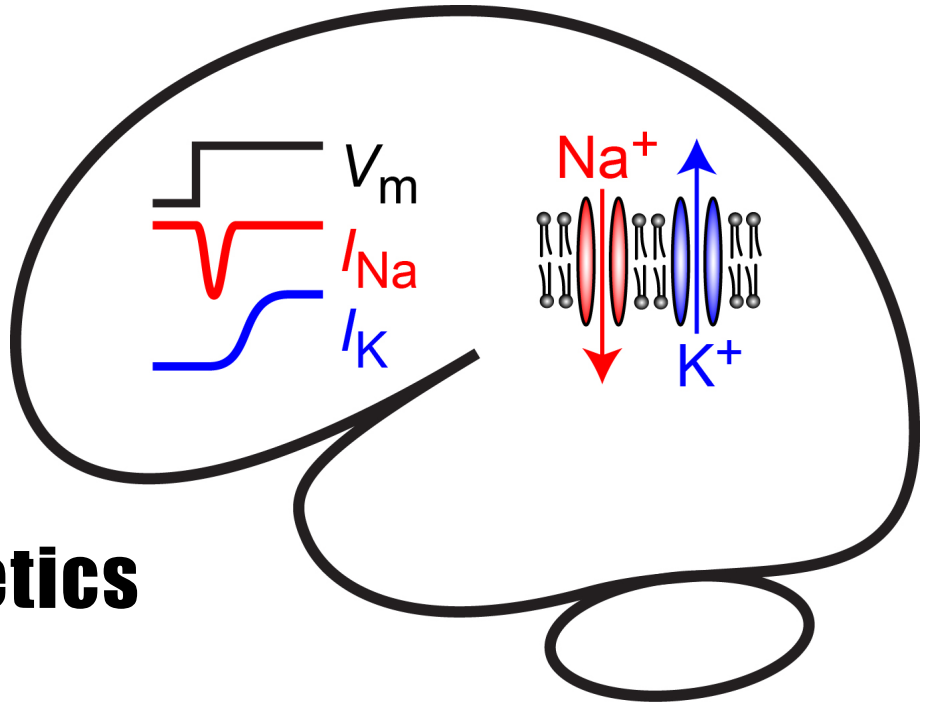
ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE



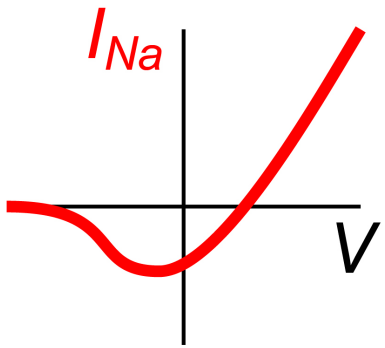
2.2 Voltage-gating kinetics

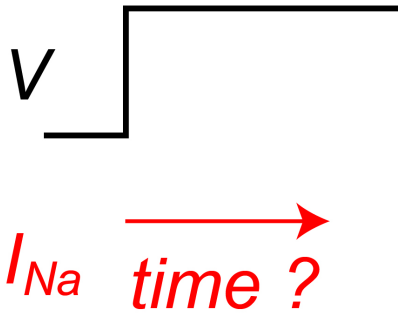
Cellular Mechanisms of Brain Function

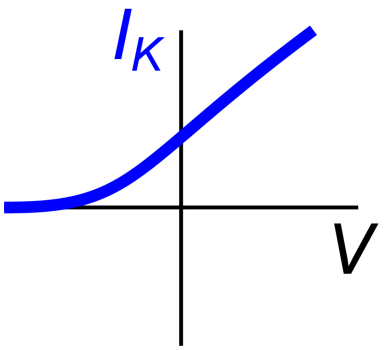
Prof. Carl Petersen

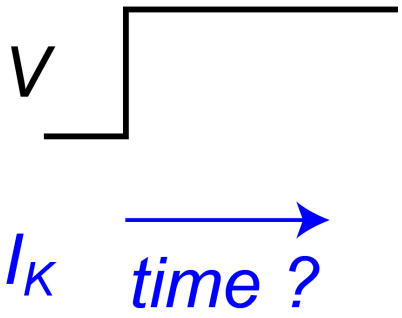
Voltage-gating kinetics

Voltage-gating kinetics of Na^+ and K^+ channels

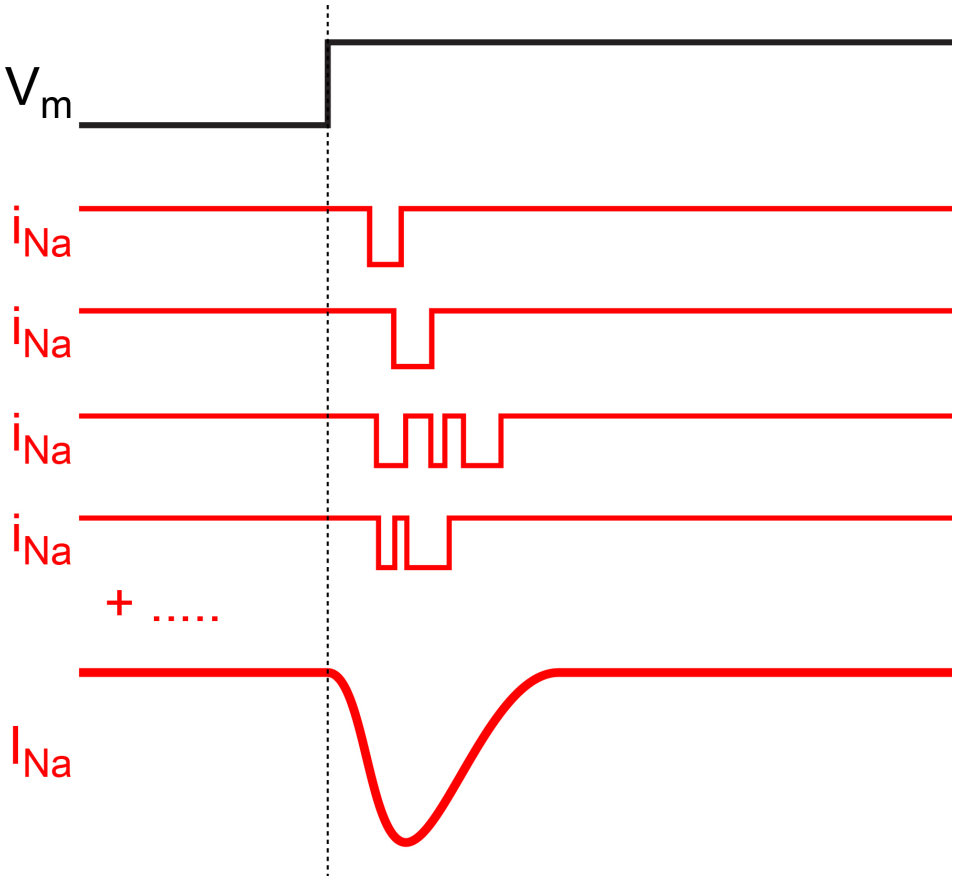




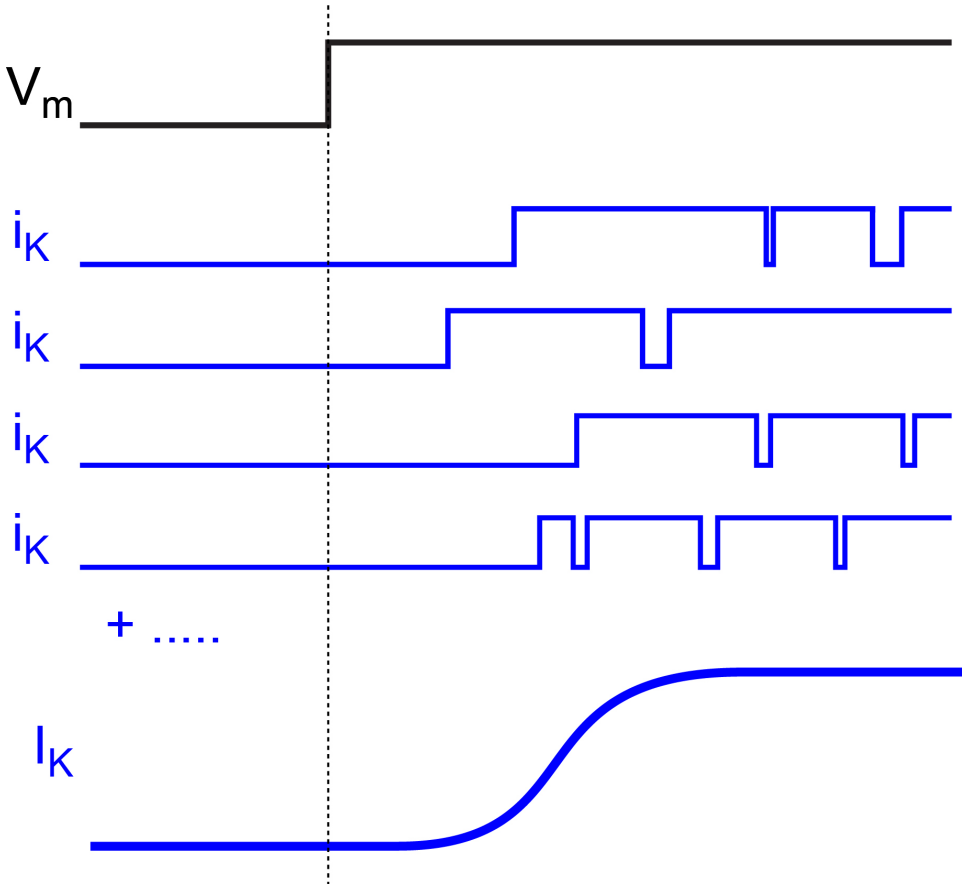




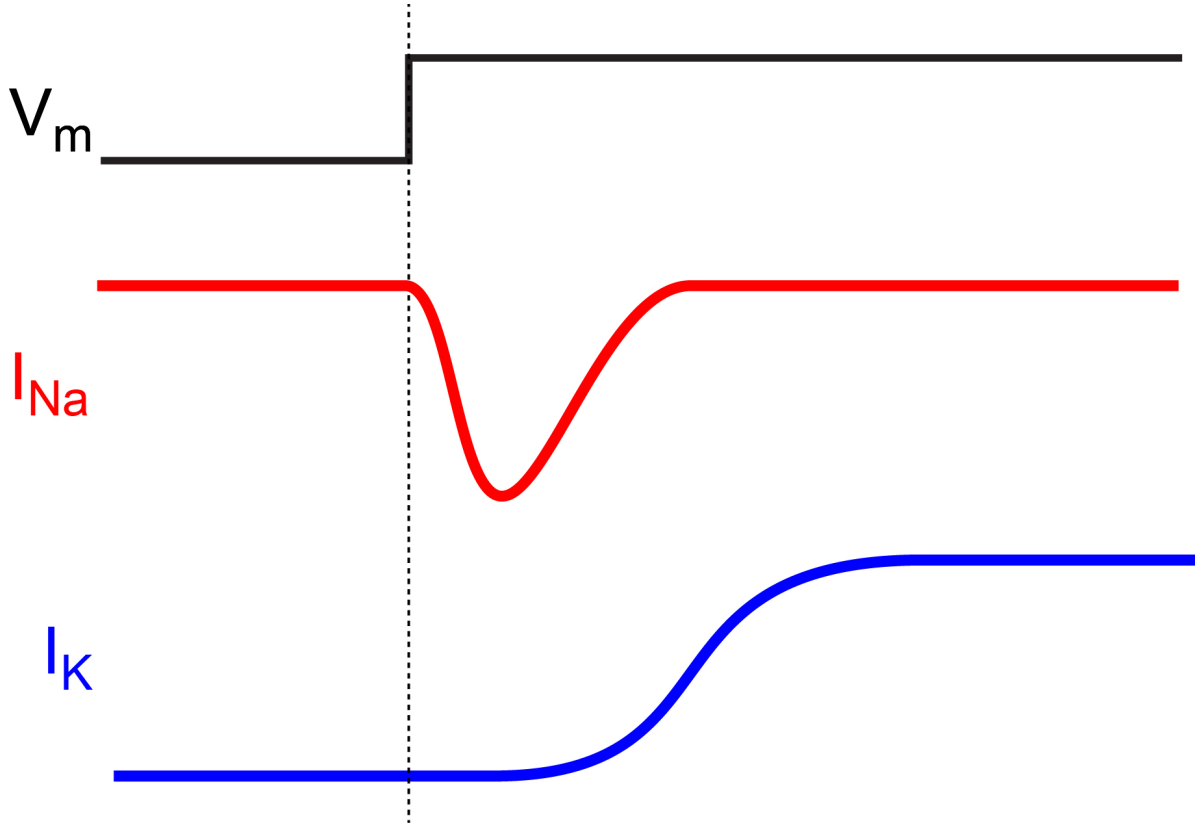
Voltage-gated Na^+ channel kinetics



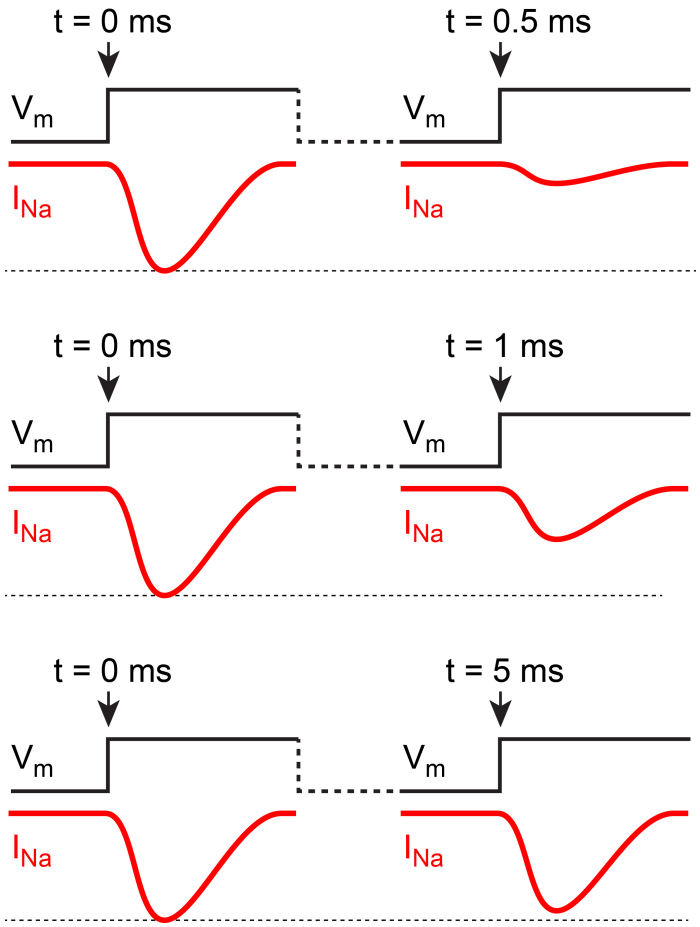
Voltage-gated K^+ channel kinetics



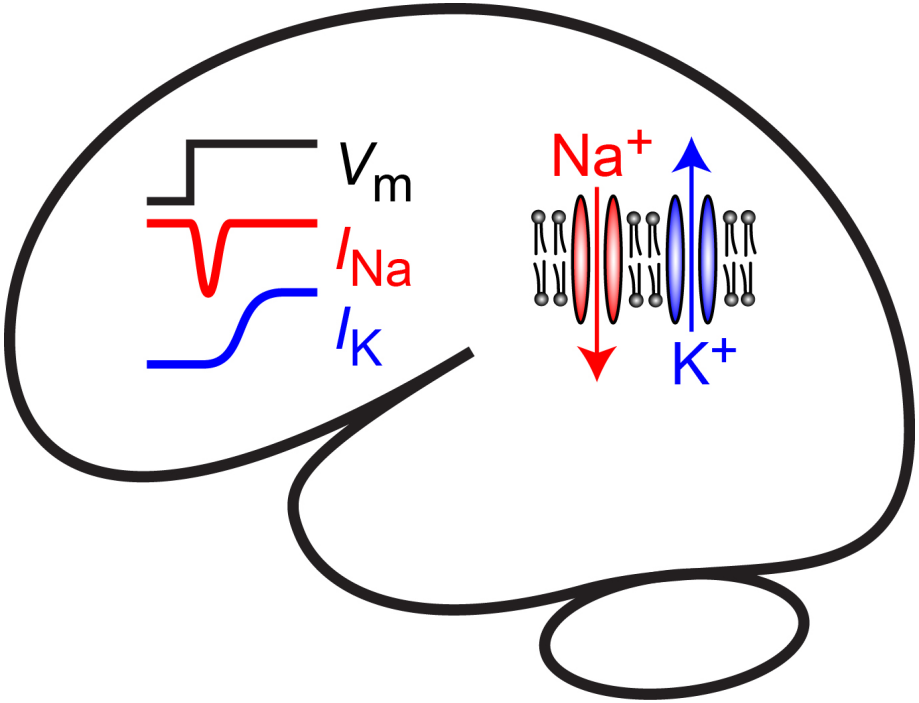
Kinetics of voltage-gated Na^+ and K^+ currents



Recovery from inactivation



Voltage-gating kinetics of Na^+ and K^+ channels



Na^+ channel diversity

K^+ channel diversity

Membrane potential dynamics

Voltage-gating kinetics of Na^+ and K^+ channels

- Voltage-gated Na^+ channels open rapidly in response to depolarisation, and then inactivate rapidly.

- Voltage-gated K^+ channels are activated more slowly by depolarisation, but they do not inactivate.