



Figure 1.4 Structure of a neuron (adopted from Attwood and MacKay [25])

rest

activity →

step 1
activation of a synapse:
cation currents through
the membrane

step 2
local change of
membrane potential
and potential gradient
along the membrane

step 3
currents along the membrane in the
extra- (1) and intracellular (2) space:
(1) potentials at the resistance of
the extracellular space (EEG)
(2) magnetic fields (MEG)

