

Syllabus

Advanced Cellular Neuroscience 2016

The neuron as a cell (1)

Resting potentials (2)

Electrical membrane models (2)

Hodgkin-Huxley model of the action potential (3)

Bursting neurons (1)

Cable theory (2)

Synaptic transmission I (2)

History of cellular neuroscience (1)

Synaptic transmission II (2)

New material (2)

Molecular basis of ion channel gating and gating current (tentative)

Numbers in parenthesis are approximate module lengths in days.

No class on Nov. 23.