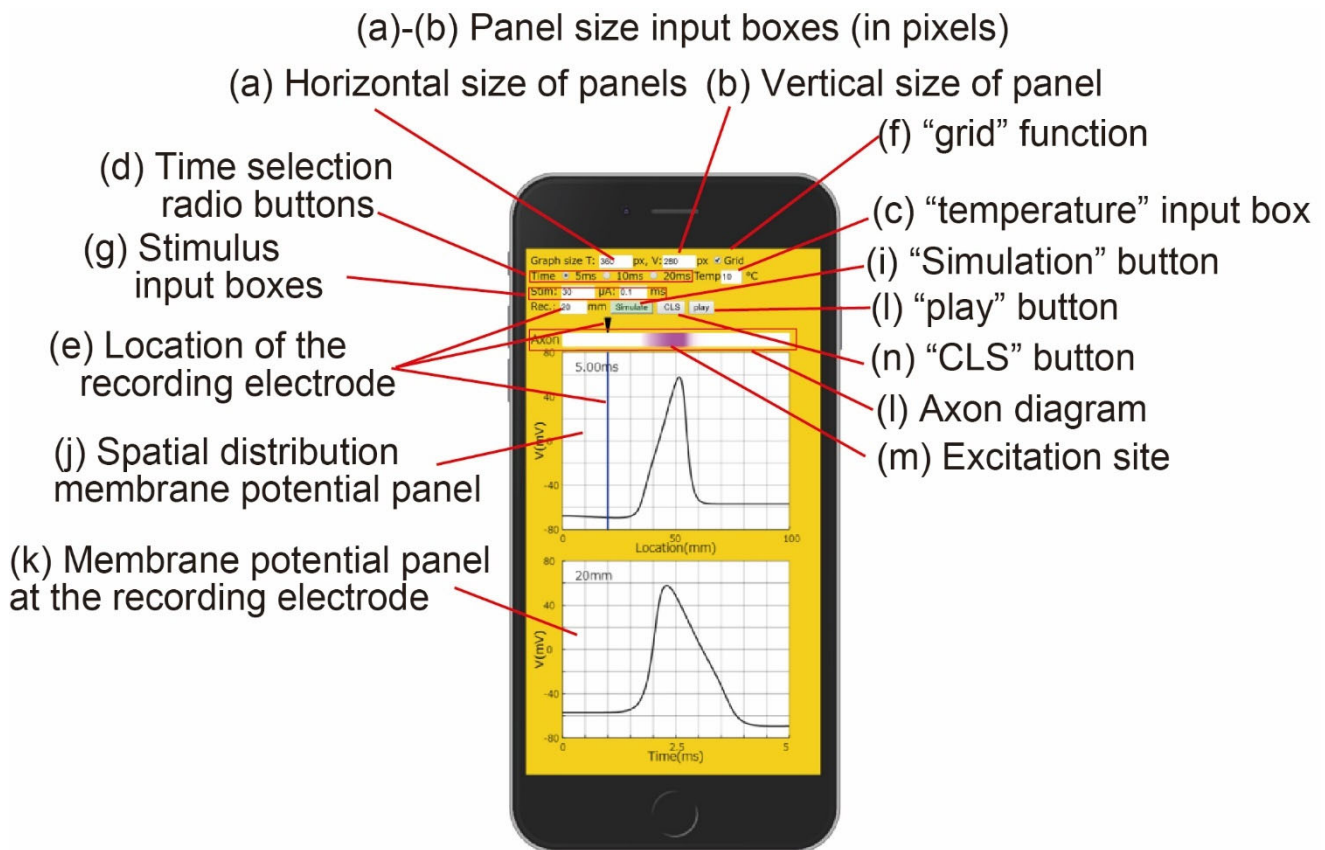


“Excitatory Conduction” simulator



- (1) Since different devices have different screen sizes, enter the size in pixels to get the appropriate panel size.

Horizontal size of panels (a)

Vertical size of panels (b)

- (2) Enter the temperature (c)
(3) Select simulation time with radio buttons (d)
(4) It is required to enter the location (distance from the stimulation electrode) of the recording electrode on the 100 mm long axon, shown by the filled triangle in the axon diagram (l) above the graph. (e)
(5) If you want the panel to display a grid, check the "grid" function. (f)
(6) Enter the stimulus current magnitude and pulse duration (g)
(7) Click the "simulation" button (i)
(8) After calculating, the upper panel shows potentials at 0.5 mm intervals on the axon. (j)
The bottom panel displays the intracellular potential at the location of the recording electrode.
(k)
(9) Each time the “play” button is pressed, the excitation site (m), where the membrane potential is indicated by color intensity, moves along the axon (l) in slow motion at a speed of 1/1000th, and the graph changes are displayed (j and k).
(10) To clear the panel traces, click the "CLS" button. (n)