

Movie legends

Movie 1. *Reversible immobilization of Paramecia with a peristaltic pump. The pump is switched on at $t = 10$ s and switched off at $t = 40$ s.*

Movie 2. *Reversible immobilization of Paramecia with depression. Depression is on between $t = 10$ s and $t = 40$ s.*

Movie 3. *Solution exchange while a Paramecium is immobilized. A stained solution (Copper chlorophyllin) replaces the clear extracellular solution.*

Movie 4. *Impalement of immobilized Paramecium with two microelectrodes. The electrodes are filled with 1 M KCl and connected to an electrophysiological amplifier. A voltage drop appears when the electrode is inserted into the cell.*

Movie 5. *Intracellular voltage recording while the pump is switched on and off. The pump is switched on at $t = 20$ s, then is switched on and off every 10 s. The pump pulsation is visible as movements of Paramecium, with no apparent change in membrane potential.*

Movie 6. *Microinjection of fluorescent Alexa in immobilized Paramecium.*