EasyOocyte: Software for Recording Digital Record from Xenopus Laevis Oocytes

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Technology description

Technical Summary

Emory University researchers have developed software to increase the efficiency of electrophysiological experiments. "EasyOocyte" runs commercially available digitizing boards and rotary valves. The software helps convert a fluctuating voltage from an amplifier into a digital record for analysis. The user may enter a protocol, in relation to valves, timing, and membrane potential, which the program executes to perfuse different drugs onto a Xenopus oocyte that has been injected with RNA of a target protein and is subject to voltage clamp. This software allows the automation of pharmacological experiments and increased research efficiency.

Application area

Software to automate drug application and data collection for recording from Xenopus oocytes.

Advantages

Enables automation of pharmacological experiments.
Improves the efficiency of research and pharmaceutical drug development.

Institution

Emory University

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