

Fabrication of cell chip to detect effect of environmental toxicants on neural cell based on cell cycle arrest technique

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In this study, a synchronized neural cell chip was fabricated to detect cellular responses induced by environmental toxins. Electrochemical signals from synchronized cells were showed sharper than unsynchronized cells' signals. The phase specific electrochemical signals were monitored after treatment of environmental toxins. Our newly developed neural cell chip can be used as biosensor to detect effects of environmental toxins on different phase of cells.

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