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Combined Effect of Neolamarckia Cadamba Leaves and Electroporation Method on HeLa Cell Anti- Proliferation Process (Conference Paper)

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Abstract

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This study suggests that natural sources may become an important tool in treating cancer. Neolamarckia cadamba (NC) leaves also well-known as 'Anthocephalus Cadamba', is a precious plant in Ayurvedic medicine. HeLa cells are one of the examples of eukaryotic cells type. It is derived from human cervical cancer cells. This experiment is conducted in different concentrations of NC Leaves (1µg/ml, 5µg/ml, 10µg/ml, 20µg/ml, 30µg/ml, 40µg/ml, 50µg/ml, 60µg/ml, 70µg/ml, 80µg/ml, 90µg/ml and 100µg/ml) for 48 hours. This experiment's result proves that the anti-cancer properties of the extract of NC leaves are by increasing the concentration of extract, the numbers of cell viability will decrease. For contribution, the process of NC leaves extract will be combined with the electroporation process to investigate the effect on HeLa cell. Electroporation parameters used for this study were (voltage 600v/cm, pulse duration 5ms, single pulse). © 2019 IEEE.

SciVal Topic Prominence ⓘ

Topic: Neolamarckia Cadamba | Cadambine | Quinovic Acid

Prominence percentile: 49.747 ⓘ

Author keywords

Anti-cancer Electroporation HeLa cell Natural Sources Neolamarckia Cadamba Leaves

Indexed keywords

Engineering controlled terms:

Control systems Cytology Diseases Electroporation Man machine systems Plants (botany)

Engineering uncontrolled terms

Ayurvedic medicine Cell viability Cervical cancer cells Combined effect Eukaryotic cells Natural sources Pulse durations Single pulse

Engineering main heading:

Lanthanum compounds

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