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Investigation of porcupine bezoar extract combined with electroporation on HeLa cell (Conference Paper)

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Abstract

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Current chemo-preventive agents will causes a long term side effects in cancer sufferer. Therefore, this research focusses on the benefits of combine both technique of Electroporation (EP) method and with natural animal extract in process to inhibit the proliferation of cancer cell , as a solution to reduce or adverse effects of orthodox drugs. The present study indicates on anti-cancer potentially of Porcupine Bezoar Extract (PBE), also known as Hystrix Brachyuran against HeLa cell . Cell viability of HeLa cell were determined after HeLa cell treated with 500 V/cm and pulse duration of 100 µs before the concentration of 80.0 µg/ml of Porcupine Bezoar Extract (PBE) was added into the cell . The cell viability and cell growth were monitored up to 48 hours with comparative to untreated cell as a control group. This study result proved that by combine both technique; Electroporation (EP) and with natural animal extract Porcupine Bezoar Extract (PBE) might open the door and it has an ability in supressing the growth of HeLa cell . © 2018 IEEE.

SciVal Topic Prominence

Topic: Electroporation | Electric fields | fields nsPEFs

Prominence percentile: 95.374

Author keywords

Anti-cancer | Electroporation (EP) | HeLa cell | Porcupine Bezoar Extract (PBE)

Indexed keywords

Engineering controlled terms: Animals | Beryllium compounds | Control systems | Controlled drug delivery | Cytology | Diseases | Drug interactions | Electroporation

Engineering uncontrolled terms: Adverse effect | Anti-cancer | Cell viability | Control groups | HeLa cell | Porcupine Bezoar Extract (PBE) | Preventive agents | Pulse durations

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