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Therapeutic effect of Trilobatin in the Medicine for the Treatment of Lung Cancer: Biological importance of Polyphenols in the medicine

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Backgrounds/Aim:

- Plant and derived herbal drugs have been used in the traditional medicine system to treat various human health complications from a very early age.
- Medicinal plants and natural products derived from these plants material including some of the pure phytochemicals has been used in the medicine mainly because of their therapeutic potential and pharmacological activities.

Backgrounds/Aim:

- A large number of useful drugs for the treatment of human health complications were mainly derived from herbal drugs.
- Polyphenols constitute one of the largest and most diverse classes of secondary metabolites in plants.

Methods:

- In order to know the biological potential of trilobatin on lung cancer, here in the present work numerous scientific data has been searched and analyzed.
- Biological effect of trilobatin on lung cancer has been investigated through scientific data analysis of various research works.
- Other pharmacological activities of trilobatin has been has been also correlated with the present work to know the biological importance of trilobatin on lung cancer.

Results:

- Trilobatin also called phloretin-40-O-glucoside were found to be accumulated in different combinations in the stems, leaves, flowers and fruits of apple plants.
- Biological potential of trilobatin on gefitinib resistant lung cancer cells has been investigated in the scientific research work and revealed significant potential mainly due to its inhibitory potential on proliferation of gefitinib resistant lung cancer cells. Scientific data analysis also revealed its effectiveness on the suppression of activity of NF- κ B in lung cancer cells.



- **Alzheimer's disease**
- **Anti-diabetic**
- **Neuroprotective effects**
- **Anticancer activity**
- **Ischemic stroke**
- **Antiobesity effect**
- **Osteoporosis**
- **Anti-inflammatory activity**
- **Antioxidant activity**
- **Human Hepatoblastoma Cells**
- **Longevity-enhancing effect**
- **HIV-1 entry inhibitor**
- **Tyrosinase inhibitors**

Pharmacological activities of trilobatin

Conclusion:

- Scientific data analysis signified the biological potential of trilobatin for the treatment of lung cancer.

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