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Therapeutic potential of neobavaisoflavone against non-small-cell lung cancer: Biological importance of phytochemical in medicine

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Backgrounds/Aim:

- Phytochemicals are pure, active plant chemicals found to be present in the flower, leaf, seed, stem, root, vegetables, herbs, and fruits.
- Phytochemicals have been utilized as a source of Nutraceuticals by human beings for a long time to treat disease in medicine.
- Demand of plant-based products, including pure phytochemicals, has increased in medicine, Nutraceuticals, pharmaceuticals, biotechnological, and other allied health sectors.

Backgrounds/Aim:

- Lung cancer is one of the leading causes of the death in the world and the most commonly occurring cancer in the human being.
- However non-small-cell lung cancer (NSCLC) accounts most cases of the lung cancer. Neobavaisoflavone is an important class of phytochemical found to be present in the *Psoralea corylifolia* belong to the flavonoid class secondary metabolites.

Methods:

- In order to know the medicinal importance and pharmacological activities of neobavaisoflavone in the medicine for the treatment of non-small-cell lung cancer, here we have collected scientific data from different databases and analyzed.
- Medicinal value of neobavaisoflavone has been investigated in the present work through literature data analysis of different scientific research to know their effectiveness against non-small-cell lung cancer.

Methods:

- Pharmacological data of neobavaisoflavone were collected from different databases and analyzed in the present work.

Results:

- Scientific data analysis revealed the biological importance and therapeutic effectiveness of neobavaisoflavone against non-small-cell lung cancer.
- Neobavaisoflavone was found to inhibit STAT3 signaling in the non-small-cell lung cancer which signified its biological potential in the medicine for the treatment of non-small-cell lung cancer.
- Present work data analysis revealed the anti-non-small-cell lung cancer efficacy of neobavaisoflavone in the medicine.

Conclusion:

- Present work data revealed the biological effectiveness of neobavaisoflavone against non-small-cell lung cancer.

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