

# 2<sup>nd</sup> World Congress on TOXICOLOGY AND APPLIED PHARMACOLOGY

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## Mechanistic *in vitro* Anti-Lung Cancer study of *Ceratonia siliqua* (Egyptian Carob) extract

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Lung cancer (LC) is ranking the most predominant cancer-related death worldwide. Tobacco smoking and environmental pollution with radiation and heavy metals are considered the well-established contributing factors of LC. Defect in the antioxidant system and inflammation are two connected pathophysiological processes. The complexity problem of LC is late diagnostic stage and limited therapeutic options. Therefore, identification of effective treatment is required to eliminate the rate of deaths. Herbal medicine nowadays takes vast challenge as it has minimum undesirable effects. *Ceratonia siliqua* (CS) is one of the well-known Mediterranean plants which cultivated all over the year and it is characterized by its cheap price and palatable taste. The main aim of the current study is to determine the phytoconstituent via HPLC technique and *in vitro* evaluation of antioxidant and anti-inflammatory potentials of the CS aqueous extract. Also, the anticancer effect of CS extract was assessed using A549 cells. The extract showed high phenolic content and significant antioxidant, anti-inflammatory and

anticancer effects. These findings could have important impact in the LC treatment and could play a decisive role in LC therapeutics.

### Biography

Marwa El-Zeftawy has completed her PhD at age of 32 years from Alexandria University, Egypt. She is a Lecturer of Biochemistry, Biochemistry Department, Faculty of Veterinary Medicine, The New Valley University, Egypt. She is the Principle Investigator of "Molecular and cellular mechanistic activities of *Ceratonia siliqua* (Egyptian carob) in stabilizing histone deacetylation and activating adult neurogenesis", STDF funded project, 2019. She was a Scholarship Student, Comparative Pathobiology Department, Faculty of Veterinary Medicine, Purdue University, West Lafayette, Indiana, USA (20 April 2015 till 10 July 2015). She has 2 international publications that have been cited 14 times, and her publication H-index is 2 and she has been serving as a reviewer member of some journals. She is member in The Egyptian Association for Cancer Research, (2015, till Now). She was participating in INTEL BASEF 2015 District fairs in Alexandria, judgment.

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