



ABSTRACTS: VOLUME 3, SPECIAL ISSUE

ABSTRACT

Arab and Islamic Anticancer Medicinal Plants from Tradition to Cellular Mechanisms: An in vitro study with THP-1 cell line

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Background: Trigonella foenum-graecum L (TF), Ocimum basilicum L. (OB), and Arum palaestinum Boise (AP), are traditional Arab herbal medicine has utilized it to treat a variety of metabolic and inflammatory illnesses.

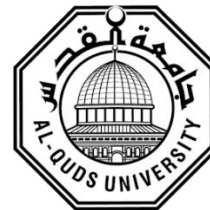
Objectives: No scientific evidence of their anti-inflammatory benefits has been published to our knowledge. The antioxidant and anti-inflammatory activities of Trigonella foenum-graecum L., Ocimum basilicum L., and Arum palaestinum Boise were investigated in this study.

Methods: Employing an in-vitro monoculture approach, by using THP-1-derived macrophages to see how the three plant extracts affected the production of pro-inflammatory (TNF-a) and anti-inflammatory (IL-10) cytokines and nitric oxide production levels in response to LPS.

Results: TNF-a and IL-10 secretion levels were found to be modulated by all three extracts at nontoxic concentrations, as indicated by MTT assay.



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Conclusion: The information offered here form an interesting framework where these plants have the potential to be used as an anti-inflammatory due to their antioxidant capacity and ability to suppress pro-inflammatory and anti-inflammatory cytokine production.

Research Keywords: Cancer, *Trigonella foenum-graecum* L., *Ocimum Basilicum* L., *Arum palaestinum* Boise, Inflammation.

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