



TITLE: Investigation of Antioxidant Potential in *Ocimum basilicum* Flower

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ABSTRACT (upto 300 words)

Leaves of *Ocimum basilicum* has been considered for long as antioxidants, and extensively used in food. The present work is particularly focused on antioxidant properties of flower of this plant. The flower of *Ocimum basilicum* were collected, dried and grinded. It was soaked in methanol-water (70:30) in dark bottle for a week. Followed by a scheme (column chromatography). After TLC of extracts, three activities were done. Phosphomolybdate, Ferric thiocyanate (FTC), and Folin-Ciocalteu (FC reagent) for determination of antioxidant capacity, peroxidation, determination of total phenols respectively. This investigation suggests that the flower extract of *Ocimum basilicum* possess antioxidants compounds, phenols, polyphenols and show peroxidation. Overall its concluded that *Ocimum basilicum* flower has antioxidant capacity as good as a standard antioxidant. It is recommended in food/medicine as natural herbal product.

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Mode of Presentation: Oral/Poster.

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BIOGRAPHY (upto 200 words)

Sadaf Khurshid Kayani has completed her Master of Philosophy degree in natural products/organic synthesis from GC University Lahore. She has also Master of Science degree in chemistry. She is an independent researcher. She has three publications as a single author. She is also serving as reviewer with journals (Journal of Ethnopharmacology). Her research projects cover topics based on synthesis of antibacterial drugs, natural products, metal adsorption. She is very keen to present her work in conferences and seminars. She participated in poster presentation and in 1st International conference on Science and Justice held at GCU Lahore.