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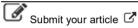
#### \*Correspondence

Muhammad Naeem Iqbal, PSM Editorial Office, Pakistan Science Mission (PSM), Narowal (Noor Kot 51770), Pakistan.

Email:

drigbalnaeem@hotmail.com

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# Volatile Oils as Green Alternative to Antibiotics in Poultry

Muhammad Naeem Iqbal<sup>1,2\*</sup>, Asfa Ashraf<sup>2,3\*</sup>

- <sup>1</sup>The School of Life Sciences, Fujian Agriculture and Forestry University, Fuzhou 350002, China.
- <sup>2</sup>Pakistan Science Mission (PSM), Narowal (Noor Kot 51770), Pakistan.
- <sup>3</sup>The School of Life Sciences, Fujian Normal University, Fuzhou 350117, China.

#### Abstract:

Extensive use of antibiotics against foodborne pathogens has resulted in additional antibiotic resistance to bacteria that has become a matter of great concern to public health. This has requested an urgent need to find new and effective natural antimicrobials to combat the diseases caused by foodborne pathogenic bacteria. There has been an increasing concern worldwide on the therapeutic values of natural products. The volatile compounds in the plant oil extracts minimize the CFU numbers of the target pathogen to an extended limit and maintain the shelf-life of meat products significantly. In this issue, Al.Maqtari and Alhamzi describe the incidence of Salmonella in poultry gizzards and reported the antibacterial activity of various volatile oils against bacterial isolates. Based on the biological efficacy of plant-derived volatile oils, consideration can be made on their prophylactic and therapeutic applications as alternatives to antibiotics in poultry.

