

# GC Analysis, Anticancer, and Antibacterial Activities of Secondary Bioactive Compounds from Endosymbiotic Bacteria of Pomegranate Aphid and Its Predator and Protector

Taghreed Alsufyani <sup>1,2,\*</sup>, Najwa Al-Otaibi <sup>2,3</sup>, Noura J. Alotaibi <sup>2,3</sup>, Nour Houda M'sakni <sup>1,2,4</sup> and Eman M. Alghamdi <sup>5</sup>

<sup>1</sup> Department of Chemistry, College of Science, Taif University, P.O. Box 11099, Taif 21944, Saudi Arabia; nour.h@tu.edu.sa

<sup>2</sup> High Altitude Research Centre, Taif University, P.O. Box 11099, Taif 21944, Saudi Arabia; naotaibi@tu.edu.sa (N.A.-O.); n.alotaibi@tu.edu.sa (N.J.A.)

<sup>3</sup> Department of Biology, College of Science, Taif University, P.O. Box 11099, Taif 21944, Saudi Arabia

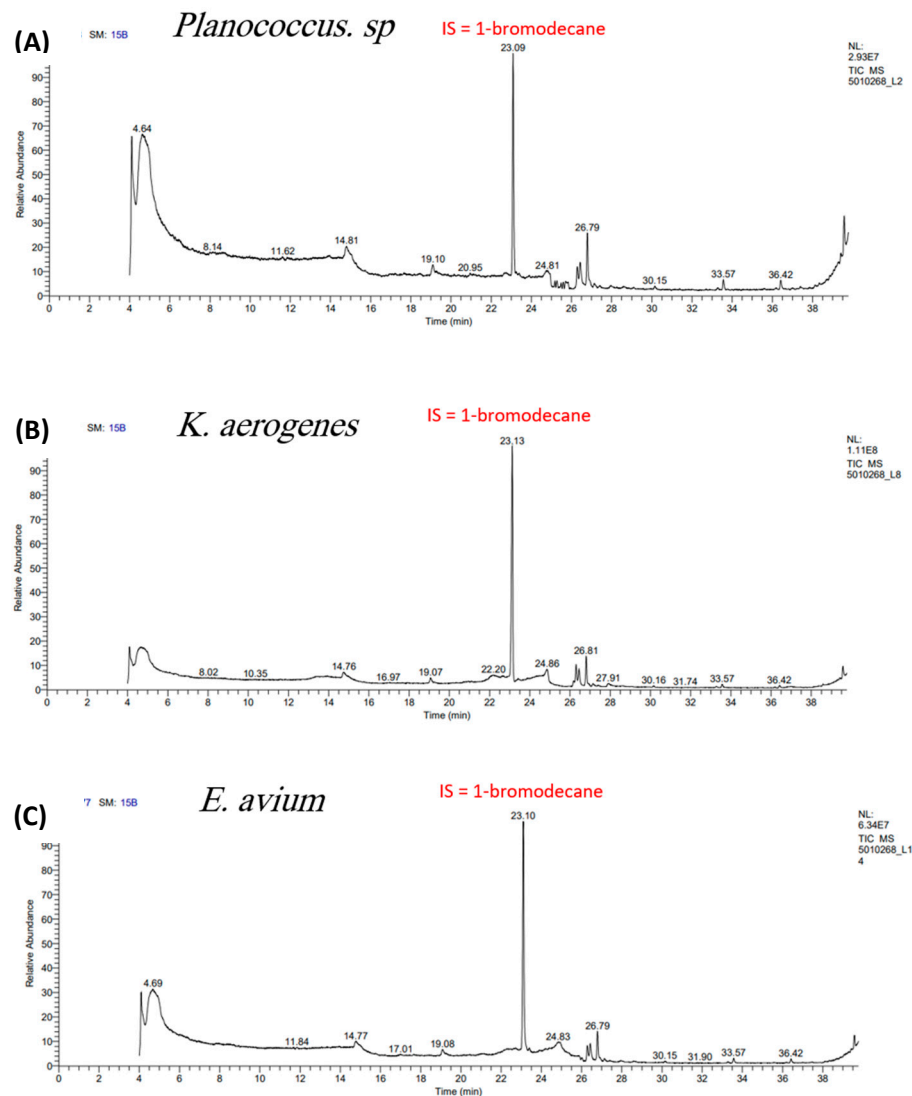
<sup>4</sup> Laboratory of the Interfaces and Advanced Materials (LIMA), Science Faculty, Monastir University, P.O. Box 05019, Monastir 5019, Tunisia

<sup>5</sup> Chemistry Department, Faculty of Science, King Abdul Aziz University, P.O. Box 80200, Jeddah 21589, Saudi Arabia; emalghamdi@kau.edu.sa

\* Correspondence: taghreed.alsufyani@tu.edu.sa

## Supplementary Figures

### 3 GC/MS figures



**Figure S1:** GC-MS chromatograms of bioactive compounds extracted from the ethyl acetate fraction of the following bacteria (A) *Planococcus sp.*, (B) *K. aerogenes*, and (C) *E. avium*. 1-bromodecane is IS (RT = 23.09 – 23.13).

## Supplementary Table

**Table S1:** Other chemical compounds detected by GC/MS of EA-ME of *E. avium* and *K. aerogene* bacteria isolated respectively from ant *A. punicae* and Lacewing (*C. carnea*)

Compounds	Origin	Biologic activities	References
Di-(2-ethylhexyl) Phthalate (DEHP)	Synthetic materials + Bio-organisms, such as microbes, algae, plants	Plasticizer + anti-bacterial, larvicidal and cytotoxic + allelopathic, antimicrobial, insecticidal to improve the competitiveness of plants, and microorganisms to better adapt to biotic and abiotic stress.	[1-4]
Mono(2-ethylhexyl) phthalate (MEHP)	Synthetic materials + Secondary metabolites of DEHP	Plasticizer	[5, 6]
Didodecyl phthalate (DDDP)	Synthetic materials + in the Environment	In silico drug targeting agent + Phthalate Plasticizers	[7]
Pregnane- 3,11,20,21-tetrol, cyclic 20,21-(butyl boronate)	Host plant n-hexane fraction of <i>Phlomis stewartia</i>  <i>methanolic extract of</i> Epilobium angustifolium L.	Hormonal Compounds	[8] [9]
Acetamide, n-(p-methoxybenzyl)	Synthetic compound	antimicrobial, anticancer, antioxidant, insecticidal against cowpea aphid and <i>Aphis craccivora</i> Koch (Homoptera: Aphididae)	[10, 11]

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