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MOLECULAR CHARACTERIZATION OF OPRL GENE OF PSEUDOMONAS AERUGINOSA ISOLATED FROM CLINICAL SOURCES IN THI-QAR PROVINCE

Mushtaq Talib Al-Safi[1], Hassan R. Al-Rekaby[2] & Khwam R. Hussein[3]

[1,2]Research Scholar, Department of Biology, College of Education for Pure Sciences, University of Thi-Qar, Nasiriyah, Iraq

[3]Research Scholar,'Al-Nasiriyah Technical Institute, Southern Technical University, Al Basrah, Iraq

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ABSTRACT

The study was conducted for a period of seven months between March and September 2016.A total of 314 samples various clinical cases of different patients were randomly collected and examined for detection of Pseudomonas aeruginosa. These clinical samples included wound swabs, burn swabs , ear swabs, urine,and sputum samples.All collected samples were screened for the presence of Pseudomonas aeruginosa by culturing on appropriate media and 61 isolates of Pseudomonas aeruginosa were identified via biochemical tests and confirmed by the API 20NE system.

In attempting to the identification of P.aeruginosa strains at the DNA level,Polymerase chain reaction (PCR) was used based on specific primer for 16SrRNA.The results showed that PCR has found to be rapid and sensitive and specific for identification of P. aeruginosa. In addition, 16S rRNA was used as confirmation gene, while toxA used as virulence gene.

***KEYWORDS*:** *Pseudomonas Aeruginosa,Virulencegene,Toxa Gene*