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## GENTAMICIN ENHANCES TOXA EXPRESSION IN *Pseudomonas Aeruginosa* isolated form cow Mastitis

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The present study was undertaken in order to investigate the role of gentamicin in the gene expression of toxA in *Pseudomonas aeruginosa* isolated from cow mastitis. A total of ten *P. aeruginosa* strains originally isolated from cows infected with mastitis. Agar dilution methodology was performed to determine the minimal inhibitory concentration of gentamicin, all of which developed resistance toward gentamicin. The findings presented here demonstrated that all these strains harboured toxA depending on PCR-based assay. Nonetheless, RT-PCR technique revealed a wide variation in expression of toxA. Moreover, the cultivation of *P. aeruginosa* in the presence of gentamicin, significantly (P<0.05), induced the expression of toxA, in addition to the possibility of enhancing the virulence of this bacterium. In conclusion, using gentamicin to treat infections caused by *P. aeruginosa* may participate in more severe outcomes.

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