



**Phonotypical & Structural comparison between
Pseudomonasaeruginosa Isolated from keratitis and cystic
fibrosis patients**

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Abstract:An eighty samples containing *pseudomonas auroginosa* were taken from Diwanyia teaching hospital 50 of them were from Cystic Fibrosis patients and the other 30 were from Microbial Keratitis infected people ,all these samples have been cultured and indicated *pseudomonas auroginosa* infection, then the bacteria under taken a comparison according to colony properties , genetically and the activity of proteinase IV enzyme, the study have been identified almost *pseudomonas auroginosa* isolated from Cystic Fibrosis(CF) patients were able to form mucoid colonies ,while the colonies of Microbial Keratitis(MK) patients were nonmucoid , genetically the study fined that there were many bands at different wave lengths can be isolated from the same infection .and finally as regarded with proteinase IV(PIV) enzyme activity it was more active in Cystic Fibrosis isolates from Microbial Keratitis once, this may come from the effect of anther virulence factors.

Keyword: Microbial Keratitis, Cystic Fibrosis, ProteaseIV.