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Leila Azimi, J Drug Metab Toxicol 2021

## Evaluation of Different Methods to Determine Biofilm Formation in Pseudomonas Aeruginosa

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**Background:** Biofilm formation is one of the antibiotic resistance mechanisms in some bacteria like *Pseudomonas aeruginosa*. This type of mechanisms can lead to cross resistant to different antibiotics and appearance MDR strains. There are various methods to detect biofilm production like Tissue Culture Plate (TCP), Tube method (TM), Congo Red Agar method (CRA), and also, molecular assay by PCR.

Objective: This study was conducted to compare different methods for the detection of biofilms.

**Method:** In this presentation we review the different methods for the detection of biofilms in P. aeruginosa.

**Results:** TCP, TM, CRA and molecular assay are the routine method to determine of biofilm formation strains.

**Conclusion:** The TCP method is a more quantitative and reliable method for the detection of biofilm forming *P. aeruginosa* as compared to TM and CRA methods, and it can be recommended as a general screening method for detection of biofilm producing strains in laboratories.

## Biography

Dr. Anamika Singh has completed his PhD at the age of 29 years from Indian Institute of Information Technology, IIITA, India. Sh ahse nine year teaching and research experience. She has published more than 10 papers in reputed journals and more then 20 book cjhapters. She has also authored a book.She is reveiwer of few journals and also she is guiding Ph.D. Her area pof specialization is moleciular biology, drug designing and bioinformatics.