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Towards the development of rapid biofilm antibiotic sensitivity testing (BAST)

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This study presents a modification of the antibiotic susceptibility testing (AST), which is a rapid means of determining the response of planktonic bacteria to different antimicrobial agents, for application to biofilms. Colony biofilm was first developed on a cellulose filter/membrane disc, over which an antibiotic disc was imposed. Zone of inhibition was measured after incubation on nutrient agar. Biofilms were not as susceptible to test antibiotics as compared to the planktonic cultures. The results point to the possibility of this method as a rapid means for antibiotics for treating biofilm infections. Limitations and potential application for biofilm AST are discussed.

Biography

Bassam O AlJohny has completed his PhD from Sheffield University, England and has been trained on Molecular Techniques from Department of Molecular Biology and Biotechnology, Sheffield University. Presently he has been working as Associate Professor in Molecular Microbiology, Department of Biology. He is an energetic and enthusiastic Microbiologist and has 7 years' experience in both teaching and research activity. He has participated in several international, national conferences, symposia, workshops and presented his research papers in several countries and recently presented his novel research in Paris. He has published more than 9 papers in reputed national, international and ISI journals and serving as an Editorial Board Member of reputed journals and also has lifetime membership in Microbiology Associations worldwide.

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