

JOINT EVENT

9th International Conference on **Emerging Infectious Diseases**

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6th World Congress on**Control and Prevention of HIV/AIDS, STDs & STIs**

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Evolution of super-drug resistant microbial strains: Mechanisms and strategies for containmentSheikh Ajaz Rasool¹, Salman Rasool² and Munazza Danish Ajaz³¹ Jinnah University for Women, Pakistan² DJ Govt. Sc. College, Pakistan³ Federal Urdu University for Arts, Science and Technology, Pakistan

Super drug resistance (PDR / EDR) in microbial strains has been a continuous phenomenon in nosocomial and miscellaneous infections. The load of these bugs has inflated ever since worldwide. Microbes evolve such phenomena involving mutational processes, hyper performance of pumping out systems, synthesis of secretory saccharides, bioaccumulation and directed flagella based shifting resulting out of hypo-doses of drug stimulation. Further, the prevalence of Enterobacteriaceae member strains has been witnessed producing Extended Spectrum β -Lactamases (ESBLs). Drug resistance in viral entities has also posed challenge for public health programs. About 20% of the deaths are caused due to viral hepatitis in one of the provinces of Pakistan. A counter malarial acrine drug is being tried against proteinaceous infectious particles (causing many transmissible neuro-diseases). These epigenetically agents have been a source of concern for our planet regarding food safety issues (e.g. infected meat). A UN Report about multiple NGOs involvement in 'sex for food' scandal in Haiti is alarming. No doubt man has made significant achievements in effective and neo-antimicrobials research, one wonders not any infectious agent has been completely knocked out. Our group has been focusing on ascertaining the basis of antibiotic deferring processes acquired by (indigenous) clinical strains. Accordingly, sub-lethal doses of the drug result in development of hyper-resistances. The presentation shall involve the molecular genetically basis (and other parameters) for acquiring the resistance. Achievable problem shooting way outs will also be discussed.

Biography

Sheikh Ajaz Rasool, Professor, Chairman, Dean Faculty of Science (August 2006 – February 2007) and has been a senior most Professor of Karachi University in the department of Microbiology, University of Karachi. He pursued his M.Sc. in Microbiology, PhD in Bacterial-Molecular Genetics from Moscow State University and Post-doc. from England. He has been awarded with many awards like British Council Postdoc. Award 1990, Best Karachi University Scientist Award 1996, Best University Teacher HEC-Award 2004 and Presidential Award of Academic Excellence 2007. He has supervised more than 50 research thesis, published more than 120 research papers and holds a membership of more than 20 Scientific/Academic bodies.

drajazrasool@gmail.com

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