Speaker: Prof. Indranil Biswas, University of Kansus, USA

Topic: High-throughput screening for novel antimicrobials against Acinetobacter baumannii, an unusual ESKAPE pathogen

Date and Time: 3rd Nov 2022 at 4 pm in the Lecture Hall 1 of the UAC, Saltlake, Bose Institute.

Abstract: Acinetobacter baumannii is an emerging nosocomial pathogen that causes a variety of infections, some of them are life-threatening. The severity and the types of infections depend on the genetic and phenotypic variations of the isolates and the presence of pathogenic islands. The pathogen has potential to acquire antibiotic resistance genes from the
environment. This trait has allowed the organism to persist in healthcare settings and has also facilitated the global emergence of multidrug resistance (MDR) pathogens. A. baumannii is becoming resistant to most of the commonly used antibiotics including colistin, which is the last resort. Therefore, the MDR strains pose serious challenges to clinicians treating the
life-threatening infections and impose additional economic burdens on the health care system. Thus, there is an urgent need for the development of novel strategies to control infections caused by A. baumannii. This presentation will discuss some of the important traits that A. baumannii possesses and present promising data on the development of novel small-molecule inhibitors that specifically target this organism.