



BIOINFORMATICS SEMINAR

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THE INS AND OUTS OF BACTERIAL SIGNALING

Inter- and intra-cellular communication is vital for bacterial survival and virulence. The functional mechanisms of bacterial signal receptor proteins that sense and respond to environment signals are not well understood. We utilize a combination of structural (X-ray crystallography) and functional analyses to (i) elucidate functional mechanism of inter- and intra-cellular cellular signal receptors, (ii) predict & engineer their function, (iii) depict their regulatory conformational changes, and (iv) understand mechanism of action of drugs targeting them. These studies will facilitate development of a novel class of anti-infectives that do not kill bacteria but target these communication events to curb bacterial behaviors leading to disease.

BIOGRAPHY

Dr. Parashar is an Assistant Professor in the Department of Medical Laboratory Sciences. He received his Bachelor of Science from Panjab University in India in 1999 and a Master of Science from the Thapar University two years later. A Ph.D. in Molecular Biology from the Panjab University followed in 2006. From 2006 through 2007 Dr. Parashar was a Postdoctoral Fellow at the Wayne State University in Detroit, MI. From 2007 through 2013 Dr. Parashar was a Research Associate at the New Jersey Medical School at Rutgers University, NJ. He served as an Assistant Professor at Rutgers University Oral Biology department from 2014-2017. In 2017, he joined the faculty of Department of Medical Laboratory Sciences in the College of Health Sciences at University of Delaware.

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