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Dr Sandeeptha Burgula is an Associate Professor and Chairperson, Board of Studies, at the Department of Microbiology, Osmania University, Hyderabad, India. She has a total of 18 years of teaching experience and 13 years of research experience. She has a PhD in Biochemistry from Osmania University for which she was awarded a fellowship by the University Grants Commission(UGC), India. The main thrust area of her research is studies involving molecular pathogenesis. Her laboratory is currently focused on understanding the role of an acute phase protein, Haptoglobin, in bacterial sepsis. In this context, her lab has recently designed a cost effective nanoprobe assay for early detection of sepsis to predict severity. Her work also involves evaluating anti-tumor and anti-microbial activity of medicinal plants and biogenic nanoparticles. Several potential anti-tumor nanoparticles have been designed at her laboratory. Her work has been funded by several agencies including SERB, UGC and OU-DST-PURSE. She has completed 3 major projects out of which one was as a co-investigator and has completed 3 minor projects. She is a life member of BRSI and ISCA. She is an **ASM-INDOUSSTF sponsored Visiting Research Professor** under which she worked at St. Jude Children's Cancer Research Hospital at Memphis, USA, at the prestigious laboratory of DrThirumala-Devi Kanneganti. She is a former UGC sponsored **Raman Postdoctoral Fellow in USA** (SUNY, Stonybrook, NY) and has been recently admitted by **Telangana Academy of Sciences, India, as an Associate Fellow**. She has received 7 awards for paper presentations at National and International conferences and also, international travel award to attend conferences (DBT and ICMR). She received the Vice Chancellor's appreciation award for completing Raman-UGC sponsored International postdoctoral fellowship in USA, completing SERB startup project (2022) and for her patent on sepsis diagnostics (2023). She has published 23 research articles in reputed journals during 2010-22 and has 3 general articles to her credit. She is a reviewer for several International journals such as Toxicology in vitro, Journal of Ethnopharmacology, etc. She has filed 2 Indian patents out of which one has been granted recently and has guided 4 Ph.D students. Presently she has 5 Ph.D students working under her supervision.