



# SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

TAMAKA, KOLAR – 563 103

Department of Microbiology

## Event Report



**Name of Event:** Multiplex Molecular Diagnostics in sepsis - Clinical outcomes

**Name of Departments:** Department of Microbiology and Department of Medicine

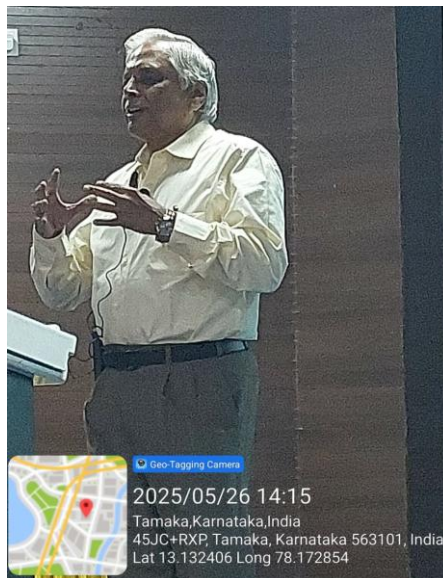
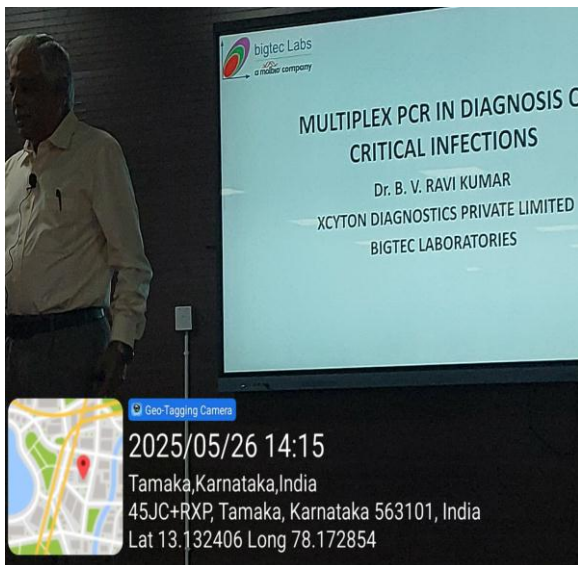
**Date:** 26.05.2025

Sl. No.	Event Report
1.	<b>Level of Event</b> – Institutional; Faculty of Medicine; Guest Lecture
2.	<b>Background / Introduction</b> <p>Sepsis is a life-threatening medical emergency resulting from the body's dysregulated and extreme response to an infection. It can lead to tissue damage, organ failure, and death if not treated promptly. Early detection and treatment are crucial to improve survival rates.</p> <p>Sepsis multiplex PCR is a diagnostic tool that utilizes Polymerase Chain Reaction (PCR) technology to rapidly detect pathogens in blood samples of individuals suspected of having sepsis. This technique allows for the identification of multiple bacterial and fungal species simultaneously, aiding in faster and more accurate diagnosis compared to traditional blood cultures.</p>
3.	<b>Venue:</b> William Osler Hall, First Floor, SDUMC, SDUAHER
4.	<b>Sponsors:</b> SDUAHER
5.	<b>Inauguration:</b> Presided by the Dr. Harshitha, postgraduate in Department of Medicine. Dr. Parimala. S, Professor & Head of the Department introduced the Speaker, by Dr. BV Ravi Kumar.
6.	<b>Speaker:</b> Dr. B V Ravi Kumar is a distinguished faculty and well-known figure in the field of Diagnostic Research. He completed his MBBS from JIPMER in 1977, and Diploma in Psychiatry from CMC, Vellore in 1979. Following this he achieved his Ph.D from the prestigious Indian Institute of Science, Bangalore in 1985. <p>He is the Founder, Chairman of XCYTON Diagnostics Pvt Ltd, now known as BIGTEC LABS. He has 28 publications, 8 patents and more than 150 oral presentations to his credit.</p> <p>His achievements include the Lockheed Martin Innovation award in 2013, Best Bio-Product award for JEV ELISA 204, and Best Bio-Product award of Biospectrum for SES_eye Infections 2008.</p> <p>He has guided three Ph.D students, and his thesis was adjudged the Best Thesis at IISC in 1986.</p> <b>Chairperson</b> <p>Dr. Parimala. S, Professor and Head, Department of Microbiology Dr. Anitha A, Professor, and Second Unit Head in Department of Medicine</p> <b>Co-organizing Secretary:</b> Dr. Rupa K, Senior Resident, Department of Medicine

	Assisted by Faculty members and Postgraduates.
7.	<p>Participants &amp; Delegates – 120 members present in person.</p> <p>Attendance sheet shared as Annexure 1.</p>
8	<p><b>Brief lecture notes and discussion</b></p> <p>Dr. Ravi Kumar initiated the presentation by sharing his experience on how multiple cases of seizures and sepsis, which resulted in fatal outcomes were diagnosed on autopsy for evidence of Salmonella and Neurocysticercosis which ignited a keen interest in Infectious diseases.</p> <p>He commented that around 18 children die across the globe every minute due to sepsis. Multiplex PCR is a competent high quality tool for early diagnosis of critical infections. He supported this claim thorough various Syndrome Evaluation Studies. He also suggested that Multiplex PCR and Next generation Sequencing could be the Future of Diagnostics, which not only identified pathogens but also various mutations, causing significant ripples in the critical care, and Antimicrobial resistance programs.</p> <p>The audience member interacted with the speaker, and multiple queries were discussed and clarified.</p> <p>In conclusion, he highlighted the impact on IDSA guidelines on Antimicrobial resistance, Clinical practices and Syndrome Evaluation Studies.</p>
9	<p><b>Valedictory</b></p> <p>Dr. Harshitha delivered the Vote of Thanks.</p> <p>The event was concluded by thanking all the administrators, resource faculty, and supporting staff.</p>
10	<p><b>Highlights of Events including Photos :</b></p> <p>Photos have been shared separately, as jpeg format, and as Annexure 2</p>



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