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Amrita Vishwa, TIGS team up against antibiotic resistance

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The collaboration between Amrita School of Biotechnology (ASBT) and TIGS will focus on developing new tools to reverse antibiotic resistance.



Amrita Vishwa Vidyapeetham's School of Biotechnology has teamed up with Tata Institute of Genetics and Society (TIGS) under the aegis of University of California San Diego (UCSD) to conduct cutting-edge research in antimicrobial resistance (AMR), a rapidly-spreading phenomenon which threatens to make once-treatable bacterial infections deadly again and jeopardize the delivery of modern medicine.

The collaboration between Amrita School of Biotechnology (ASBT) and TIGS will focus on developing new tools to reverse antibiotic resistance.

The tie-up between the two institutions derives inspiration from earlier work done between ASBT and the University of California San Diego (UCSD) in establishing the mechanism of action of natural products like clove bud oil to inhibit quorum sensing in Pseudomonas aeruginosa and attenuate virulence.

In addition, funding from the Bill & Melinda Gates Foundation and the Department of Biotechnology, Govt. of India as well as Biotechnology Industry Research Assistance Council (BIRAC) to Amrita School of Biotechnology has also resulted in new strategies deploying bacteriophages to counter the virulence of MDR bacterial pathogens.