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MEDICAL PROBIOTICS LABORATORY

ABOUT US

Probiotics hold significant promise by providing benefits for both intestinal and extraintestinal health and disease. Probiotic strains are known for their robust ability to withstand harsh gastrointestinal conditions, promoting beneficial effects such as immune modulation, pathogen inhibition, and gut microbiota balance. Their probiotic potential extends beyond the gut, impacting lung cancer, neurodegenerative disease and metabolic disorders. By producing bioactive compounds, probiotic strains can modulate the host's overall health, offering a versatile and effective approach to disease prevention and treatment across various bodily systems.



TEAM MEMBERS



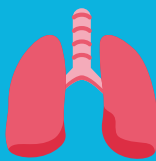
Mrs. Deepthi G Nair and Ms. Vaishnavi Ketna (PhD Scholars) are investigating on regulating cholesterol and maintenance of gut health



Ms. Vaishnavi Thangaraj (PhD scholar) is evaluating bioactive compounds produced by *Bacillus* species to combat oral pathogens



Mr. Raja Prabu R (PhD Scholar) is focusing apoptotic pathway in neurogenerative disease like Alzheimers



Ms. Adeline Celina R (PhD Scholar) is exploring the use of probiotics for lung cancer, aiming to enhance the apoptosis of cancer cells

PAST MEMBERS



The postgraduate and undergraduate students investigated *Bacillus* strains through a range of studies. Their research included assessing the antimicrobial potential of these strains against various gut pathogens, evaluating their probiotic attributes, screening for extracellular enzymes, virulence factors profiling, and identifying bioactive compounds.

PUBLICATIONS

- Adeline Celina Rufus, Kalai K, Elavarashi Elangovan. Isolation and characterization of *Bacillus* species for the detection of siderophores. *Research Journal of Biotechnology*. 2024;19(8):92-99. doi:<https://doi.org/10.25303/1908rjbt092099> I.F-0.1 (2024)
- Kalai K, Rufus AC, Manz AM, Elangovan E. Unveiling the Antimicrobial Potential of 7-O-succinyl Macrolactin F from *Bacillus subtilis* Group against HtsA Siderophore Receptor of *Staphylococcus aureus*: A Computational Exploration. *Biomedical and Biotechnology Research Journal (BBRJ)*. 2024;8(1):92. doi:https://doi.org/10.4103/bbrj.bbrj_288_23 I.F- 1 (2024)
- Suresh K, Trishala Gopikrishna, K Tapasya, Perumal K, Elavarashi Elangovan. A COMPUTATIONAL GENOME ANALYSIS OF STRAIN *BACILLUS SUBTILIS* MIZ-8 ISOLATED FROM BEKANG REVEALS A DISTINCT CHROMOSOME AND PLASMID CONFERRING SELECTIVE ADVANTAGE. *The Journal of Microbiology, Biotechnology and Food Sciences*. Published online June 26, 2023:e9141-e9141. doi:<https://doi.org/10.55251/jmbfs.9141> I.F- 1.0
- Pramod S, Thommana RT, Kulanthaivelu Kanagam H, et al. Data on the genome of *Bacillus subtilis* A1- Midalam from beach soil. *Data in Brief*. 2021;39:107552. doi:<https://doi.org/10.1016/j.dib.2021.107552> . IF-1.1 (2022).
- Gopikrishna T, Suresh Kumar HK, Perumal K, Elangovan E. Impact of *Bacillus* in fermented soybean foods on human health. *Annals of Microbiology*. 2021;71(1). doi:<https://doi.org/10.1186/s13213-021-01641-9> IF-3.1 (2021).

For a full list of publications [click here](#)

For the functional database of *Bacillus subtilis* [click here](#)

For detailed CV [click here](#)

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