

JSSAHER / DBT BUILDER Project



Dr. Rashmi D
Assistant Professor (Research)
Department of Biochemistry
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Education details:

- Ph.D. Microbiology

Department of Microbiology & Biotechnology, Bangalore University

The title of doctoral thesis is “*Isolation and Characterisation of Bacteriocin from Food Borne Bacteria*”

Mentor: Dr. T Sharmila, Ph.D

- M.Sc. Microbiology

Department of studies in Microbiology, University of Mysore, Mysore

The title of research project dissertation is “*Isolation and Characterization of Proteolytic Bacteria from Poultry Intestine*”.

Mentor: Dr. N.M. Sachindra, Scientist

MFPT, CFTRI –Central Food Technological Research Institute, Mysore.

Areas of interest: Immunology, Molecular analysis of Biomarker & bioactive compounds. Food & fermentation technology.

Teaching experience: Guided students for the project during the curriculum

2022	Project 1: Production of non-alcoholic beverage & characterisation of bioactive compound. Project 2: Study on the effect of stress parameters on the production of L-Asparaginase enzyme.
2021	Project 1: A survey on the theoretical and practical approach of using Biofertilizers and Biopesticides. Project 2: Antimicrobial activity of florets of <i>Musa acuminata</i> on <i>Escherichia coli</i> , <i>Pseudomonas</i> and <i>Bacillus</i> .
2020	Project 1: Study on antimicrobial assay of solvent and water extractions of <i>Bacopa monnieri</i> and <i>Moringa oleifera</i> .

2019	<p>Project 1: Studies on proteolytic enzyme activity from probiotic non lactic acid bacteria.</p> <p>Project 2: Studies on screening of paint degrading microorganisms isolated from wall scrapings.</p>
2017	<p>Project 1: Combinatorial study of bacteriocin with essential oils on the effect of pH and their antagonistic activity against food borne pathogens.</p>

Publications:

- **Rashmi D et al.** 2021, Antimicrobial Activity of Florets of *Musa acuminata* Against *Escherichia coli*, *Pseudomonas* And *Bacillus*. **International Journal of Recent Scientific Research**. 12(10), pp. 43416-43419. October, 2021. **Impact Factor: 7.383**
- DOI: <http://dx.doi.org/10.24327/ijrsr.2021.1210.6279>.
- **Rashmi. D**, Athira. K, Lahari Basavaraju, Sejal Kumar, Study on proteolytic enzyme from probiotic non lactic acid bacteria isolated from sheep milk. **International Journal of Public Mental and Neurosciences** Volume 5, Issue 2, 2021. **Impact factor: 1.629**.
- G., Yamuna and O., Anooj and K., Roopika and Rani, Sabitha and **D, Rashmi**, Studies on Screening of Paint Degrading Microorganisms Isolated from Wall Scrapings. **Asian Journal of Applied Science and Technology (AJAST)** Volume 5, Issue 3, Pages 126-137, July-September 2021, **Impact factor: 5.134**
- **Rashmi. D.**, Suguna. S R., Tessy Anu Tomas., Helen.D., Komal., Nazia Imam, Sharmila.T. Combinatorial Study of Bacteriocin from *Acinetobacter variabilis* with Essential Oils against Food Borne Pathogens. **Journal of Emerging Technologies and Innovative Research**, Vol 5 (6): 1-9, June- 2018. **Impact factor: 5.87**
- **Rashmi, D.**, Sharmila, T., Patil, S., Apine, O., Sistla, S., & Jadhav, J. (2018). (D et al., 2018). Isolation Detection and Characterization of Syringolin A produced from the Probiotic Strain *Bacillus cereus* Isolated from Donkey Milk. **Journal of Analytical Chromatography and Spectroscopy**, 1(2). EnPress Publisher. **Impact factor: 1.665**
- **Rashmi, D.**, Srinivas Sistla, and Sharmila, T. Study of antagonistic properties of bacteria from cow's milk by real-time surface plasma resonance biosensor (BIAcore). **Journal of Pharmaceutical, Chemical and Biological Sciences**, 2018; 5 (4): 365-370. **Impact factor: 5.923**
- **Rashmi, D.**, Srinivas Sistla, and Sharmila, T. Study of antagonistic properties of bacteria from pulses by real-time surface plasma resonance biosensor (Biacore). **Asian Journal of Pharmaceutical Science and Technology**, 2018; 1; 10-15. **Impact factor: 2.43**
- **Rashmi, D.** and Sharmila, T. Probiotic non lactic acid bacteria: study of bacteriocin for the antagonistic activity. **International Journal of Advance Research**, 2017; 5 (4): 1427-1433. **Impact factor: 7.08**

Memberships:

- **Life Member for Association of Microbiologists of India (AMI)** from 2014.