

**Dr. R.K. Malik,**

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**Current Research Area:** Microbial Metabolites; Biopreservation; Bacteriocins of LAB, Probiotics; Safety & Value Addition of Foods and Mastitis Biotherapeutics.

**Future Research Interest:** Anti-Microbial Packaging (AMP), Functional Foods & Nutraceuticals.

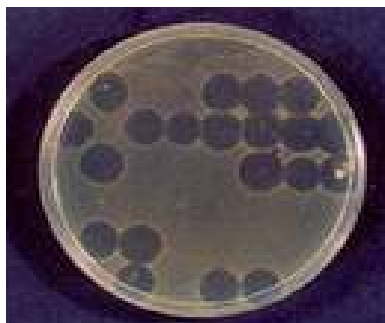
**Ongoing Projects:**

- Development of a bacteriocin based formulation for mastitis therapy (project leader)
- Iron Fortification of Milk for its Increased Bioavailability (Associate)
- Isolation of antifungal bio-active proteins and peptides derived from milk and their application in Biopreservation (Associate)

**People at your lab/ group/ Students:**

- Mr Vishva Bandhu, Technical officer
- Ms. Hittu Gupta (PhD)
- Mr. Prashant Chauhan (PhD)
- Mr. Pendem Nageshwar Gaud (MSc)

**Significant research**



**result photograph:**

Bacteriocinogenic Enterococci active against a *Staphylococcus aureus* strain.

**Important Research Publications:**

- Parashar, R. Malik R. K. and Puniya A K (2005). Extraction, purification and characterization of exopolysaccharide produced by *Lactococcus lactis* PM-23 using formulated paneer whey medium. *Asian J. Microbial Biotechnol. Environ.Sci.*7 (1) 13-17.
- Amit Ranjan, Malik R. K. and Naresh Kumar (2002). Isolation and Characterization of bacteriocinogenic Enterococci from cheddar cheese. *Indian J. Dairy & Biosc.* 13: 36-42
- R. K. Malik, I. Rajmhangopalan and K. Nageshwara Rao (2001). Genetic characterization of citrate utilization in *Leuconostoc*. *Indian J. Dairy & Biosc.* 12: 45-50

- K. Nageshwara Rao, R. K. Malik and D. K. Mathur (2000). Detection of non starter lactic acid bacteria in milk and milk products. *Indian J. Dairy sci.* 53: 67-70
- C. Ganesh Kumar, R. K. Malik, M. P. Tiwari and K. D. Jany (1999). Optimal production of Bacillus alkaline protease using a cheese whey medium. *Microbial. Aliments Nutr.* 17: 39-48
- Rajeev Parashar, R. K. Malik and D. K. Mathur (1997). Plasmid linked extracellular polysaccharide production in *Lactococcus lactis* subsp. *lactis* PM-23. *Microbial. Aliments Nutr.* 16: 31-37
- Rajeev Parashar, R. K. Malik and D. K. Mathur (1997). Utilization of whey for the production of extracellular polysaccharide by a selected strain of *Lactococcus sp.* *Microbial. Aliments Nutr.* 15: 79-88
- R. K. Malik, N. K. Nawani and D. K. Mathur (1995). Bacteriocinogenic activity of *Leuconostoc* spp. against food spoilage and pathogenic bacteria. *Cultured Dairy Products J.* 30: 10-12
- R. K. Malik, Naveen Kumar and D. K. Mathur (1994). Detection and activity of Leucocidin R-1, a novel bacteriocin produced by *Leuconostoc paramesenteroides*. *Microbial. Aliments Nutr.* 12: 443-448