

Detail of the Institutional research project

Title of the Project:

Evaluation of probiotic potential and antimicrobial efficacy of *Lactobacillus* spp isolates from gastrointestinal tract of animals and human.

Start of the Project: 2022

Duration of project: 24 months

Name and designation of the Project Leader: Dr. Bhoomika,

Assistant Professor cum Jr. Scientist,
VPHE, BVC, BASU, Patna-14

Objectives:

1. To isolate and characterize *Lactobacillus spp.* from fecal samples of calves, kids, and infants.
2. To evaluate the efficacy of the *Lactobacilli* against MDR pathogenic bacteria.
3. To assess the stability and probiotic potential of isolates using *In vitro* assays.

Detail of research team:

1. Dr. Bhoomika (P.I.)

Assistant Professor cum Jr. Scientist. VPHE, Bihar Veterinary College, BASU, Patna-14

2. Dr. P. Kaushik (CO P.I.)

Assistant Professor cum Jr. Scientist. VPHE, Bihar Veterinary College, BASU, Patna-14.

3. Dr. Vivek Kumar Singh (CO P.I.)

Assistant Professor cum Jr. Scientist, Department of Veterinary Clinical Complex, Bihar Veterinary College, BASU, Patna-14.

Monitorable targets:

Isolation and characterization of *Lactobacillus* spp. Antibacterial activity of isolated *Lactobacillus* spp. against MDR enteric pathogens.

Annual Budget:

1. First year: 210000 /-
2. Second Year: 150000 /-

