

List of Tentative Titles @ CytoGene, Lucknow

(You can choose any title for your project. Please note that final title will be slightly different to make it unique.)

Molecular Biology

- 1) DNA Barcoding – An Intergenic Species Diversification of Lower Animal
- 2) Multiplex PCR Technique – A Method for Rapid Identification of Human Pathogenic Vibrio Species in Fresh Water and Marine Water System

Microbiology

- 3) Study to evaluate effect of Phosphate Solubilizing Bacteria on the growth of plants under pot conditions and assessment of Genomic Island isolated bacterial species
- 4) Profiling of the Phytochemical compound of Madhuca longifolia by LC-MS and its anticancer activity

Biochemistry

- 5) Green synthesis of nanoparticles, characterisation by SEM and study of anti-cancerous and antimicrobial activity
- 6) Expression of Metallothionein as a marker in response to various Stress Factors in Plant leaves and other parts

Bioinformatics

7) Molecular Dynamics Simulation and Molecular docking studies on Plant-based active Compounds Against HIV-1 NEF protein

8) In-silico study to explore active components against toxin protein of SARS-CoV2 by Molecular simulations

Food Technology

9) Quality assessment of Probiotic dairy beverages and toxin detection by using ELISA techniques.

10) Proximate analysis, microbial profiling and Cytotoxicity study of food supplements

Immunology

11) Screening of C677T Polymorphism of MTHFR Genes on Rheumatoid Arthritis: A Case Control Study on North Indian Population

12) Polymorphic Study of LIMD1 Gene to understand its role in Oral Cancer

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