

DEBARCHAN MONDAL

RESEARCH SCHOLAR, UNIVERSITY OF CALCUTTA



CONTACT

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RESEARCH INTERESTS

- Space Microbiology
- Low-Cost Scientific Instrumentation
- Bioinformatics & Molecular Simulation
- Microgravity-Driven Host-Pathogen Interactions Using Cell Culture

LANGUAGES

- Bengali
- Hindi
- English

REFERENCE

Prof. Pubali Dhar

Dept. of Home Science, CU

Phone: 9433122560

Email : pdhomesc@caluniv.ac.in



PROFILE

Researcher in space microbiology, bioinformatics, robotics, and instrumentation, studying microbial responses to microgravity. Skilled in experimental design, computational analysis, and tool development. Passionate about creating affordable scientific solutions to enhance research capabilities in resource-limited settings.



SKILLS

Analytical Instrumentation

Proficient in operating and interpreting data from Gas Chromatography (GC), Fluorescence Microscopy, SDS-PAGE, RT-PCR, NanoDrop Spectrophotometry, and FTIR Spectroscopy for analytical and molecular diagnostics.

Scientific Visualization & Data Representation

Skilled in creating clear and informative visual representations of complex datasets using tools like GraphPad Prism, Origin, R, and Python (Matplotlib, Seaborn).

Embedded Systems & Microcontroller Programming

Experienced in C/C++ based Arduino development for real-time applications involving sensor networks, actuator control, and IoT-enabled systems.

Web Interface Development

Adept at designing and deploying responsive, user-centric web interfaces with a focus on functionality and visual appeal.



EDUCATION

P.hD (ongoing)

Department of Home Science | Calcutta University 2022

Thesis title: Effect of Simulated Microgravity on Growth, Antibiosis, And Pathogenicity of Probiotic and Pathogenic Bacteria

Master of Science

Clinical Nutrition and Dietetics | Vidyasagar University
Percentage: 82

Bachelor of Science

Nutrition and Dietetics | Vidyasagar University
Percentage: 68.75