

AASTHA

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SUMMARY

- Masters of Science in Microbiology with thesis title ‘Combined Radiation Injury Induced Wounds on the Survival of Experimental Rats’.
- Hands on experience in Microbial techniques.
- Core Competencies; Analytical and communication skills; motivated, hardworking student.

OBJECTIVE

To obtain a research position utilizing my strong analytical and critical thinking skills, as well as my experience in Microbiology

EDUCATION

- Doctor of Philosophy in Medical Microbiology, Universiti Malaya [2024-current]
- Masters of Science in Microbiology, GD Goenka University [2020-2022]
Thesis Title- ‘Combined Radiation Injury Induced Wounds on the Survival of Experimental Rats’
Coursework- Cell biology, Chemistry of Biomolecules, Analytical Technique, Probability and Statistics, Clean Room & Vaccum Technology, Genetics and molecular Biology, Enzymology, Immunology, Principles of Virology, Scientific Paper writing ,Food dairy and industrial Microbiology, Seminar, Crime and society, Microbial Metabolism, Bioprocess engineering and Fermentation Technology, Entrepreneurship, Applied Microbiology Lab, Microbial diagnostic in health clinics.
- Bachelors of Science, MDU University [2017-2020]

SKILLS

- **Proteomics techniques** {2-Dimensional gel electrophoresis, Western blot, ELISA,Sonicator
- **Molecular biology techniques** PCR, Chromatographic techniques, sample preparation for Electron Microscopy. }
- **Basic immunological techniques** ELISA, Lymphocyte proliferation assay and Tissue Culture }
- **Biophysical/Biochemical Techniques** {UV-Visible spectroscopy }
- **Chemistry techniques** { volumetric analysis }
- **Microbiological techniques** {Microbial identification, enumeration, streaking techniques and culture, Bacterial endotoxin Limit Test, Autoclave operation, Broth Dilution, Culture Revival, Pathogen identification test, Microbial Limit Test}
- **Instrumentation-** Centrifuge, Autoclave, Biosafety, Laminar Airflow, Air sampler, PH meter, Sonicator, Water Bath etc
- **Computer skills** Software well acquainted (Internet Explorer, Firefox, Google Chrome)
- **Other Skills** {Proficiency in English; written and oral, MS Office, Working knowledge of Tissue culture and dissection }

RESEARCH EXPERIENCE

- GRA at Universiti Malaya, Malaysia
- Intern, CBRN a unit of INMAS, Defence Research and Development Organization, India [January 2022-June 2022]
Defence Research and Development Organization is the R&D wing of Ministry of Defence, Govt of India, with a vision to empower India with cutting-edge defence technologies and a mission to achieve self-reliance in critical defence technologies and systems,
 - ✦ Conducted Research to optimize an animal model for combined radiation injury (CRI) for the evaluation of potential drug candidates also evaluated the molecular, cellular and clinical effects of compromised wound healing due to radiation exposure.

- Intern, Microbiology Department, Mankind Research Pharma R&D, India [January 2022-July 2022]
Mankind Pharma is one of India's leading healthcare companies. Its R&D unit is known for Quality checks for diverse Pharmaceutical products manufactured by its company.
 - ✦ Conducted several Pathological Tests, Essays (Bacterial Endotoxin Test, Probiotic assays, Antibiotic assay etc) on various drugs.

LAB INTERNSHIPS

- **SRL Diagnostic Lab** (June 2021-july2021)
- **Aryan Hospital** (April 2021-June2021)

PUBLICATIONS

- Recovery of silver nanoparticles and management of Food wastes: obstacles and opportunities (**Environment pollution journal**) <https://DOI.ORG/10.1016/j.ENVADV.2022.100303>.
- The role of Microbiota in the Pathogenesis of Alzheimer's Disease [Acta Scientific Nutritional Health (ISSN:2582-1423)] DOI:10.31080/ASNH.2023.07.1272

IN PROCESS

- Working on a research article entitled as "Microplastic-a threat to Marine Biota" in **Frontiers in Ecology and Evolution** with Dr Raunak.

REFERENCES

1) **Cindy Teh Shuan Ju**

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2) **Raunak Dhanker, Ph.D (NTOU, Taiwan)**

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3) **Ian James Martins (PhD)**

Principal Research Fellow/Chief Editor Conference/Congress/Journals (Centre of Excellence for Alzheimer's Disease Research and Care)

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4) **Santosh Rai (PhD)**

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