

VINITHA GANESAN, M.Sc., Microbiology

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OBJECTIVES

To work in a globally competitive environment on challenging assignments that shall yield the twin benefits of job satisfaction and a steady paced professional growth in a prestigious concern.

PROFESSIONAL SUMMARY

Knowledgeable Microbiologist offering over 3 years of experience in R&D. Substantial experience in microbiology and molecular biology. Capable of handling Bacteria, Fungi and Algae. Was involved in different product development such as Probiotics and antioxidants. Proficient in designing and executing experimental works. Highly skilled in data analysis, documentation and report writing. Experienced in developing SOP manual for R&D.

WORK EXPERIENCE

Research Associate, Carot Labs Pvt Ltd, Chennai (Dec 2017 – Dec 2020)

- **Cloning and Expression of Microalgal genes:** Genomic and Plasmid DNA isolation, PCR, Agarose gel electrophoresis, ligation, Gel and PCR product purification, Restriction digestion, Competent cell preparation, Agrobacterium mediated transformation, SDS-PAGE and Microalgal Protoplast preparation.
- **Isolation and characterization of Probiotic Strains:** Culture media preparation, staining techniques, serial dilution method, setting up assays to confirm probiotic strain (Antibiotic sensitive assay, pH tolerance, Bile salt tolerance assay, Carbohydrate fermentation assay) and preparing samples for sequencing.
- **Culture maintenance of Bacteria and Microalgae:** Isolation and identification and sub-culturing of the strains which had high productivity. Development of contamination control treatment for pure culture (Antibiotic Sensitivity test, Ozonization), Growth media optimization and Bio-Prospecting.
- **Extraction of microalgal and fungal pigments:** Homogenization, Manual grinding, Chemical treatment, Ultrasonication, Soxhlet extraction, Extraction process optimization and Solvent recovery (rotary evaporation).
- **Qualitative and quantitative analysis of Pigments and inorganic compounds:** HPLC, TLC, UV-Spectrum – Collect, analysis and documentation of results.
- Glycerol stock preparation of bacteria, fungi and microalgal strains.
- Molecular biology stocks preparation and maintenance such as reagents, enzymes, vectors, primers and constructs.
- Assisted downstream processing of microalgal fermentation for carotenoid accumulation (Bio Stat 5L reactor-Sartorius Stedim).

INSTRUMENTATION

Light Microscope, HPLC, UV-Spectrophotometer, FTIR, pH meter, TDS meter, Ozoniser, Rotary Evaporator, Ultra-Sonicator, Ultra-Centrifuge, Thermal cycler, Homogenizer, Soxhlet apparatus, Vacuum filter and Autoclave.

EDUCATIONAL QUALIFICATION

- M. Sc Microbiology – 80.53% – April 2017 – Bharathidasan University, Tiruchirappalli
- B. Sc Microbiology – 81.28% – April 2015 – A.V.C. College, Mayiladuthurai
- HSC – 73.58% – March 2012 – St. Paul's GHS School, Mayiladuthurai
- SSLC – 86.80% – April 2010 – St. Paul's GHS School, Mayiladuthurai

PROJECT EXPERIENCE IN POST GRADUATION

Synthesis and Characterization of Nanocatalyst (CaO and MgO) for Transesterification Process in Biodiesel Production using Microalgae (*Chlorella vulgaris*), Jan 2017 at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli.

PUBLICATION

Thajuddin, N. **Vinitha, G**, MubarakAli, D and F. LewisOscar. (2016). Development and application of nanocatalyst for algal biofuel production. Biocatalysis in Biomass to bioproducts, Astral Publisher, pp 121-134. ISBN No.: 978-93-86071-69-9.

ACADEMIC ACHIEVEMENTS

- Awarded **Silver medal** for overall academic performances and achieved **first rank for core subjects** in under graduation at A.V.C. College, Mannampandal, Mayiladuthurai.
- Presented paper “Synthesis of nanocatalyst (CaO) for catalysis of transesterification reaction for biofuel production” in Inter-national conference on Materials and Technology Synthesis, Processing and Applications at SRNMC college, Sattur.

TECHNICAL/ COMPUTER SKILLS

- Possess First Class in Type writing English Senior Grade.
- MS Office & Adobe suite.

PERSONAL DETAILS

First Name	Vinitha
Last Name	Ganesan
Date of Birth	30/07/1995
Age	26
Gender	Female
Nationality	Indian
Marital status	Married
Language known	English and Tamil

REFERENCES

NAVEEN CHANDRAMOHAN, CEO of Carot Labs Pvt Ltd, Chennai, India, Contact: +91 9884833992

DECLARATION

I hereby declare that the details furnished above is true to the best of my knowledge and belief.

Yours faithfully,

(VINITHA. G)