

Mobile No: 09482832714

E-mail: varshithmr@gmail.com

LinkedIn ID: Varshith-mr-675378151

Residential Address:

#1565 S. Muniswamy Gowda road,

Vijayanagar, Bangarpet

Kolar - 563101



EDUCATION

COURSE	INSTITUTE	UNIVERSITY/BOARD	PERCENTAGE %	YEAR OF PASSING
MSc. Microbiology	SCHOOL OF SCIENCES	JAIN UNIVERSITY	70	2019
BSc. Life sciences	SBMJC KGF	BANGALORE UNIVERSITY	77	2017
PUC	VIJAYA BIFERCATED PU COLLEGE BANAGLORE	DPUE	63.5	2014
SSLC	CHINAMAYA VIDHYALAYA KOLAR	KSEEB	80	2012

- Participated in international conference "CHROMOSOME STABILITY"-2014 at JNCASR BANGALORE
- International seminar on "CURRENT TRENDS and DEVELOPMENT IN BIOMEDICAL SCIENCES"

ADDITIONAL QUALIFICATIONS:

TRAINING:

- 1) Intensive programme on "CLINICAL MICROBIOLOGY" at AZYME BIOSCIENCES, Bangalore, India.
- 2) Research education advancement programme (BIO-REAP) at BASE Jawaharlal Nehru Planetarium, Bangalore, India.
- 3) Wet lab training in "PLANT TISSUE CULTURE and INSTRUMENTATION" at R&D of Gene win Biotech, Hosur, India.
- 4) Value added programme on "THE BASICS IN CLINICAL RESEARCH" at Sri Bhagawan Mahaveer Jain College, KGF, India.



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5) Academic project titled "STUDIES ON FREE AND IMMOBILIZED AMYLASE OF *Bacillus subtilis* WITH TEXTILE DESIZING POTENTIAL"

6) Workshop on techniques in virology at The Oxford College of sciences, Bangalore, India.

WORK EXPERIENCE:

1. Research Intern – Centre for Cell Biology and therapeutics, NCBS, Bangalore
(July 2019 – Mar 2020)
2. Business Development Genomics – Clevergene Biocorp Pvt Ltd, Bangalore
(Mar 2020 – Present)
3. Founder, Director, CEO – Treillis Life Sciences Pvt Ltd (Aug 2020 – Present)

TECHNICAL SKILLS

Microbiological techniques:

1. Safety measures, aseptic techniques, sterilization and disinfection.
2. Isolation and Culturing of micro-organism (Bacteria, fungi, algae), their screening and morphological identification.
3. Biochemical assay – IMVIC.
4. Mushroom cultivation.

Biochemical, physiological and immunological techniques:

1. Concept of pH and buffers – measurement and preparation.
2. Biochemical assay – Carbohydrate estimation, protein estimation.
3. Serological tests of diagnostic importance – WIDAL, RPR, Blood grouping.
4. Precipitation tests – ODD, RIA, RID, Immuno-electrophoresis.
5. Micro Hemagglutination assay.
6. ELISA, WESTERN blotting.
7. Immunoglobulin purification
8. MIC, MDR, MLC, other antibiotic sensitivity tests.

Enzymology

1. Estimation of microbial amylase – Amylase, Protease.
2. Enzyme Optimization, Characterization (effect of pH, temperature, substrate concentration)
3. Enzyme kinetics – Determination of K_m and V_{max} .
4. Enzyme purification – Precipitation (Salt and organic solvent), Chromatography (Ion-exclusion and gel exclusion)

Biophysical techniques

1. TLC, SDS-PAGE, agarose gel electrophoresis.
2. Zymogram analysis.

Molecular biology and genetics

1. Mutation studies on bacteria and fungi (UV induced, chemical mutagens)
2. Bacterial transformation - Preparation of competent cells, plasmid transformation, effect of DNA concentration on transformation efficiency.
3. Isolation, characterization and quantification of genomic DNA from bacterial and fungal sources.
4. Isolation, characterization and quantification of total RNA.
5. PCR.
6. Restriction digestion and cloning, blue/white assay.

Applied microbial techniques

1. Fermentative production of organic acids, alcohol and determination of production efficiency.
2. Dairy microbial techniques – DMC, dye reduction test (MBRT), determination of SNF, total fat content, acidity of milk.

Other microbial skills

1. Physical, chemical and microbial assessment of water and potability test for water. Microbiological – Heterotrophic plate count, MPN index, membrane filter technique for total coliforms, faecal coliforms.
2. Determination of DO, BOD, COD.

Techniques in virology

1. Generation of antibodies in chicken
2. Inoculation of viruses in to embryonated eggs.

Handling of experimental organisms – Rat, Ginny pig, chicken

Plant tissue culture techniques – Surface sterilization, inoculation into media, pot inoculation.

Basic IT skills, Basic MS-office.

Interpersonal skills: Leadership ability, Public speaking, Presentation skills.


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Poster and abstract at symposia

A. Poster presentation at national conferences held in India

1. Varshith MR*, Amal Krishna AR
Biomedical waste management: a review on current scenario; national conference on "SCIENCE and TECHNOLOGY FOR INDIGENOUS DEVELOPMENT in INDIA" at KSTA in association with MSR college of science, Bangalore, India.
2. Varshith MR*, Bindu Tomar, Fathima Nermin, Kavana V, Kruthika Gowda, Dr. Srividya Shivakumar
Green approach to Textile desizing using microbial amylase; national conference on "FUTURE INDIA: SCIENCE & TECHNOLOGY" at ISCA Bangalore chapter in association with The Oxford college of Science, 10th October and 11th October, Bangalore, India.

B. Paper presentation at national conferences held in India.

1. Varshith MR*, Abhishek V, Girish MS, Rahul K, Dr. Rekha Sethi*
CLIMATE CHANGE and RESOURCE SUSTAINABILITY; (ISBN NO. 978-93-86537-21-8); national conference on "INNOVATIVE TECHNOLOGY TO COMBAT CLIMATE CHANGE IN INDIA" at Sri Bhagawan Mahaveer Jain college, KGF, India.
 2. Varshith MR*, Sindhuja V, Abhishek V
MONOCLONAL ANTIBODIES production, purification and its application in cattle disease treatment; national conference on "INDUSTRIAL and FERMENTATION TECHNOLOGY" at Maharani Science college, Bangalore, India.
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DECLARATION

I hereby declare that the above furnished information is true to the best of my knowledge and belief, if opportunity is given, I will serve up to your satisfaction

Yours sincerely,

VARSHITH.MR



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