Mabel Varghese, Ph.D



Villa 6, First Floor, BB2, VIP Floor,

Sector-81, Faridabad, Haryana-121007

E-mail: varghesemmariam@gmail.com,

Mob: +91 8955865885 / +91 9001698052

PROFESSIONAL SUMMARY

Highly motivated teacher and researcher, seeking to use my experience with biological sciences to contribute to the success of a teaching/ research team. Meticulous planner and organizer, adept at tracking and responding to numerous details and successfully managing and organizing multiple projects. Investigative personality motivates me to perform all work tasks thoroughly.

PROFESSIONAL QUALIFICATION

B.Ed. (Life Sciences)	**LNT College of Education, Panipat (Kurukshetra University) 2014-2015**
Ph.D. (Microbiology)	**Pt. Ravishankar Shukla University, Raipur (C.G.), 2009-2013** **Thesis: 'Biodiversity and Characterization of Escherichia coli Isolated from Water Sources of Durg District, Chhattisgarh.**
M.Sc. (Appl. Microbiology)	**Madras Christian College, Tambaram (University of Madras) 2005-2007**
B.Sc. (Microbiology)	**Madras Christian College, Tambaram (University of Madras) 2002-2005**

SKILLS

- Ability to communicate professionally and confidentially with individuals at all levels
- Use of technology in daily lessons
- Incorporating differentiated teaching-learning in classroom
- MS Office proficiency

WORK HISTORY

Teacher – Biology (Grade 9 & 10)

The Indian High School, Dubai (Nov 2019 – Mar 2022)

- **Planned lessons, presented information, promoted discussion, assessed performance and modified learning techniques in the study of Biology for students in high school.**
- **Instructed students in large classroom settings as well as small groups.**
- **Integrated technology and hands-on laboratory work to improve lesson effectiveness.**
- **Encouraged active participation and monitored individual student performance to enhance their understanding and master skills.**
- **Evaluated student performance regularly and kept evaluation records up to date.**
- **Attended departmental and school-wide educator meetings on monthly basis in addition to professional training sessions for continuing education.**
- **Communicated with students and parents through conferences, telephone calls and email about student performance, goal setting, behavior problems and other issues.**

Principal

St. Gregorios School, Badagaon, Gwalior, India (July 2017 – May 2019)

- **Established and maintained a learning climate conducive for optimum student performance.**
- **Met with state officials and agencies involved in education and interpreted and enforced district school policies and all of its administrative guidelines.**
- **Periodically reviewed and inspected school's facilities; classrooms, computers, restrooms, laboratories, athletic facilities and worked to ensure these are upgraded, well maintained, safe and fully functional.**
- **Conducted periodic meetings with parents and school teachers to encourage close collaboration among educational stakeholders in improving the performance of students.**
- **Taught Biology to students of grades 9 and 10.**

District Consultant- NPPCF

Office of the Chief Medical and Health Officer, Jodhpur, India (Jan 2016- July 2017)

- **Conducted surveys for assessment of magnitude of fluorosis in the district.**
- **Collected information of fluoride levels in water from Public Health Engineering Department (PHED) dept. & mapped the endemic villages of the districts.**
- **Established the laboratory for fluoride estimation of water, urine and serum.**
- **Conducted and assisted in training programs for various categories of medical, para-medical and non-medical personnel.**
- **Line listed fluoride affected villages, lab facilities available for fluoride testing, persons who can benefit with medical intervention in consultation with Medical Officer, and centers/hospitals for corrective surgeries across the district.**
- **Monitored and maintained data base of patients.**
- **Coordinated for Information Education Communication (IEC) and Behaviuor Change Communication (BCC) activities for generating awareness and behavioral changes about fluorosis in endemic districts.**
- **Coordinated with District Health Society/State Nodal Officers, PHED and other stakeholders. Prepared reports and presented data to various authorities on monthly basis.**

Teacher – General Science (Grades 6 – 8)

Shantigram Vidhya Niketan School, Mandawar, Haryana (Apr 2012- May 2014)

- **Created and executed daily lesson plans.**
- **Evaluated and revised lesson plans to facilitate classroom discussion and student centered learning.**
- **Observed and evaluated students' performance, social development and physical health.**
- **Used a variety of instruction methods including lecture, hands-on learning, and technology.**

RESEARCH EXPERIENCE

Project Fellow: "Evaluation of fungi for the management of weeds in Chhattisgarh"
St. Thomas College, Bhilai, Chhattisgarh (Oct 2008–Oct 2010)
Targets achieved:

- **Isolated and identified fungal pathogens *Curvularia lunata, Alternaria alternata* and *Nigrospora* sp. for use as myco-herbicidal agents.**
- **Produced large scale fungal inoculums using different agro-wastes.**
- **Conducted bioassays and green house trial of purified fungal spore inoculums on weeds *Parthenium hysterophorus* and *Lantana camara*.**

LIST OF PUBLICATIONS

Journal Papers

Mabel Varghese, SmritiVajpai and Roymon M.G. (2009). "Microbiological Evaluation of Drinking Water in Durg District of Chhattisgarh". Journal of Biotechnology and Bioinformatics, 1(2): 208-212.

Mabel Varghese and Roymon, M.G. (2012). "Identification of Escherichia coli from potable water sources of Durg-Bhilai, Chhattisgarh (India) using 16S rRNA gene sequence analysis". International Multidisciplinary Research Journal, 2(11):09-11.

Mabel Varghese and Roymon M.G. (2013). "Prevalence of genetically diverse antibiotic resistant Escherichia coli in river Shivnath of Durg District, Chhattisgarh, India". International Journal of Current Science, 5:138-144.

Mabel Varghese and Roymon M.G. (2013). "Studies on Antibiotic Resistance Profiles of ThermotolerantEscherichia coli and Multiple Antibiotic Resistance Index of Different Water Sources". Recent Research in Science and Technology, 5(2):68-72.

Roymon M.G., Rashmi Zankyani and Mabel Varghese, (2014). "Antibiotic resistance pattern and plasmid profiling of thermotolerant bacteria from river Shivnath of Durg region, Chhattisgarh". Journal of Ravishankar University, 27:63-68.

List of Paper Presentations/ Participation in Conferences

- **XXXIII Conference of the International Society for Fluoride Research, Hyderabad (AP), 9-11 Nov 2016**
- **International Conference- Global Meet of Biologists, Hyderabad (AP), 26-28 Dec 2012**
- **National Conference- Biological Sciences in Present Scenario, Bhilai (CG), 11 Oct 2012**
- **97th Indian Science Congress, Thiruvananthapuram (KL), 3-7 Jan 2010**
- **Workshop (Govt. of India)- Ground Water Scenario & Quality in Chhattisgarh, Raipur (CG) 4-5 Mar 2009**
- **Botanical Research- Present Scenario and future prospects, Raipur (CG), 30 Jan 2008**

PERSONAL DATA

Date of Birth – 22.02.1985

Sex – FemaleReligion – Christian

Civil Status –Married

Nationality –Indian

Languages Known– English, Hindi, Malayalam, Tamil

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

MABEL VARGHESE