Dr. G.Ashok M.Sc., M.Phil.,Ph.D
No.3, Srinivasa counder street,
Sellaperumalpet
Lawspet
Pondicherry- 605 008
Phone No: +91-9865791848
E-mail: ashokmku@gmail.com

Specialization:

- Microbial biotechnologyand Synthetic biology
- Molecular cloning and protein expression
- Streptomyces and M13 phage display
- Sanger Sequencing and NextGenerationSequencing(DataAnalysis)

Technicalskills

Microbiology

- Culturing ofbacteria, Actinomycetes.
- AntibioticsusceptibilitytestingandScreening ofsecondarymetaboliteproducing marine microbes.
- Microbialdiversity,Biofilm,lyophilization andcryostorage

Genomics and Proteomics

- Isolation of Genomic DNA/RNA from bacteria, fungi,tissuesand cultured cells.
- PCR(Gradient PCR, MultiplexPCR,rep-PCRandRAPD).
- Electrophoresis: AGE, SDS-PAGE
- M13 phage display of peptides and proteins
- Restrictiondigestion,transformation,cloning and Ni-NTA protein purification.

Synthetic Biology

- Peptide library preparation
- Invitro transcription, RNA purification
- miRNA based cancer diagnostics
- Generation of novel peptide libraries

Computational:

- Sequencinganalysis(NGSandMolecularPhylogenetic Analysis),RAST, MEGA
- Multiple sequence alignment
- KEGG Pathway analysis
- MSWord
- MS Excel
- Power Point Presentation
- Primer designing.

EducationDetails

Degree(Subject)	University/Institute	Year	Class
Ph.D.(Biology)	SchoolofBiotechnology, MaduraiKamarajUniversity,Madurai	2017	Awarded
M.Phil(Biotechnology)	SchoolofBiotechnology, MaduraiKamarajUniversity,Madurai	2008	First
M.Sc.(Biotechnology)	Bharathidasan University, Trichy, Tamilnadu, India	2005	First
B.Sc. (Biotechnology)	Pondicherry University, Pondicherry, India	2003	First

Ph.D.Thesis :Molecular diversity and biotechnological potentials of heterotrophic pigmented bacteria from estuaries in Tamil Nadu.

M.Phil.Dissertation:Analysis of DrrD gene in *Streptomyces peucetius*.

M.Sc.Dissertation:*In vitro* Multiplication of Teak (*Tectona grandis*) and Phytochemical Analysis.

Publications

NoofPublications:12 h-index :4
Totalcitations :36 i10-index:1
(https://scholar.google.co.uk/citations?hl=en&pli=1&user=WRlRjKUAAAAJ)

Presentations&Workshops

- Presented -6
- Participated -15
- Workshop -3

Experience

Research Associate(Sep,2020-till date)
NIPER, Kolkata. India.

- Synthetic biology work
- Supporting staff for M.Pharm student projects
- miRNA based cancer diagnostics
- Screening Biofilm inhibitors

Assistant Professor (Dec, 2018-Aug 2020)
Sree Narayana Guru College-Coimbatore, India

- Handled both theory and practical class for B.SC and M.Scbiotechnology students
- Supervised Six Master thesis under my guidance
- Organized National seminar andinternational conference
- Organized One day seminar on Polymerase Chain Reaction

Research Officer(Jan,2017-Nov 2018)
Pondicherry Centre for Biological Science and Educational Trust, Pondicherry, India

- Microbial identification
- Basic Cell culture maintenance
- Antimicrobial testing
- PCR

PersonalDetails:

Father's Name :V. Ganapathy

Age & Date of Birth: 37 Years &13/06/1984Gender :Male
Nationality :Indian
LanguageKnown:Tamil&English(Read,Write & Speak), French (Read &Write)Hindi(Little Speak)
MaritalStatus :Married
Address : No.3, Srinivasa counder St,Sellaperumalpet, LawspetPuducherry-605 008
Mobile :+919865791848
EmailId : ashokmku@gmail.com
Vaccination :Covishield

DBT- RGYI-JRF and SRF(May,2011-April,2016)
Madurai Kamaraj University, Madurai

- Isolationofpigmented heterotrophic bacteriafromEstuarine andCharacterization
- Molecular and phylogenetic diversity analysis
- Genomic sequencing and Molecular identification of pigmented bacteria

Awards

- **Best oral presentation award** in National Level symposium on Phenomenal Science, Bharathiyar University, Coimbatore
- **Third prize** on science competition, Community college, Pondicherry
- DBT JRF-RGYI project: Madurai Kamaraj University

SignificanceofResearchwork

- Whole Genome Sequencing Project:Pigmented bacteriawholegenomeshotgun(WGS)project(**SAMN04589240,SAMN04511041**)
- 16SrDNAgenesequencesofpigmented bacteriaSubmittedtoNCBI/GenBank.
- Production on extracellular blue pigments from *Streptomyces* sp. AS02 and its applications for ecofriendly textiles.

Reference

1. **Dr.N.Sivakumar**

   (Ph.D supervisor)
   Madurai Kamaraj University
   Madurai
   Tamil Nadu – 625 021
   microshivaak@gmail.com
2. **Dr. Utpal Mohan**
   (PostDocIn-charge)
   Assistant Professor, Department ofMedicinal Chemistry
   National Institute of PharmaceuticalEducationandResearchKolkata
   168, ChunilalBhuwan, Maniktala Main Road,Kolkata-700054
   utpal.mohan@gmail.com

Iherebydeclarethatalltheaboveinformationprovidedistrue to the best of my knowledge.

Sincerely

G. Ashok