

MOHAMED SHAIBI K M

GENETIC ENGINEER • PHARMACIST

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EDUCATION

2021 - 2023

MASTER OF TECHNOLOGY IN GENETIC ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, INDIA

CGPA – 8.61 [First Class with Distinction]

Major Courses: Cancer genetics, Human genomics, Molecular cloning, Regulation of gene expression, Stem cell biology, Developmental genetics

Major Project: Molecular differentiation of two chemotypes of Tulsi by PCR-RFLP

2017 - 2021

BACHELOR OF TECHNOLOGY IN GENETIC ENGINEERING, BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH, CHENNAI, INDIA

CGPA – 8.51 [First Class with Distinction]

Major Courses: rDNA technology, Virology, Genes and diseases, Cell biology, Immunology, Microbiology, Gene therapy

Major Project: Antioxidant, antimicrobial and wound healing activity on zebrafish by *Turbinaria ornata*

2015 - 2017

DIPLOMA IN PHARMACY, JAYA COLLEGE OF PHARMACY, CHENNAI, INDIA

PERCENTAGE – 73.34 %

Major Courses: Pharmacology and Toxicology, Pharmaceutics, Biochemistry

WORK INTERNSHIP

MAY 2021 - SEP 2021

RESEARCH AND DEVELOPMENT INTERN, BIONYME LABORATORIES, CHENNAI, INDIA

Actively took part in the validation and commercialization of RNA, DNA, protein isolation and estimation kits, preparation and standardization of different buffers, and production of viral transport medium. Also engaged in mentoring more than 10 project students in molecular biology.

PUBLICATIONS

Shaibi KMM, Leeba B, Jamuna S, Babu R. Phytochemical Analysis, In Vitro Antioxidant, and Wound Healing Activities of *Turbinaria ornata* (Turner) J. Agardh from Gulf of Mannar, India. *Appl Biochem Biotechnol.* 2022 Jan;194(1):395-406. <https://doi.org/10.1007/s12010-021-03752-0> (Impact factor - 3.0)

Shaibi, M., Balaji, R. & Parani, M. Molecular differentiation of the green and purple Tulsi (*Ocimum tenuiflorum* L.) and its application in authentication of market samples. *J. Plant Biochem. Biotechnol.* (2024). <https://doi.org/10.1007/s13562-024-00883-3> (Impact factor - 1.9)

Jeevitha Chithra Madhesh, **Shaibi Mohamed**, "Impact of micropollutants on the environment and detection by biomarker-based approach", Futuristic Trends in Biotechnology Volume 3 Book 20, IIP Series, Volume 3, May, 2024, Page no.173-182, e-ISBN: 978-93-6252-440-9, DOI/Link: <https://www.doi.org/10.58532/V3BJBT20P4CH1>

Shaibi M, Tanuja T, Parani M. Molecular Characterization and expression analysis of Betaine Aldehyde Dehydrogenase 2 (BADH2) Genes from *Avicennia marina*. Journal of Plant Physiology (Under Peer Review)

PATENT

Shaibi M, Balaji R, Parani M. A molecular method for the identification of chemotypes of Tulsi. *Indian Patents* (Application no: 202441024725)

PROJECTS

FEB 2022 - JUN 2022

EXPRESSION OF RECOMBINANT UNKNOWN PROTEIN (UNP001) FROM *Avicennia marina*

Inducing the IPTG to express the recombinant protein at the pET vector transformed into BL21-(DE3) cells. Optimization of the higher yield protein expression at different concentrations of IPTG for different times and temperatures by visualizing in SDS-PAGE.

SEP 2019 - NOV 2019

A STUDY OF THE CYTOTOXIC EFFECT OF ITRACONAZOLE, AMPHOTERICIN-B, FUNGOSTATIN, AND BLEOMYCIN ON VERO CELLS AND MDA-MB-231 CELLS BY MTT ASSAY

Repurposing the antifungal drugs to explore their cytotoxicity and cell proliferation on the triple-negative breast cancer cell lines (MDA-MB-231). Also, it has been tested for its toxicity comparatively with the normal cells of African green monkey kidney cells (VERO cells).

KEY SKILLS

- PCR techniques
- Cell cultures
- Cancer assays
- Transcriptomics and genome assembly
- Gene expression analysis
- Zebrafish handling
- Drosophila handling
- Cloning strategies
- Recombinant protein expression
- Fluorescent imaging

WORKSHOP AND TRAINING

12 JUN 2023 – 27 JUN 2023

INTERNSHIP ON SYSTEMS BIOLOGY APPROACHES OF DRUG DISCOVERY IN CANCER
INSTITUTE OF INNOVATIONS, TIRUVANNAMALAI, INDIA

20 DEC 2019

WORKSHOP ON MOLECULAR MODELLING AND DRUG DESIGNING
SRM UNIVERSITY, CHENNAI, INDIA

4 JAN 2019 - 11 JAN 2019

HANDS-ON TRAINING IN BASIC MOLECULAR TECHNIQUES

BABA CLINICAL AND GENOMIC RESEARCH CENTER, CHENNAI, INDIA

3 OCT 2018 - 5 OCT 2018

HANDS-ON TRAINING IN ADVANCED MOLECULAR BIOLOGY TECHNIQUES

ARUPADAI VEEDU INSTITUTE OF TECHNOLOGY, CHENNAI, INDIA

AWARDS AND ACHIEVEMENTS

WINNER IN ORAL PRESENTATION

INTERNATIONAL CONFERENCE ON NATUROPATHY, NANOTECHNOLOGY, NUTRACEUTICALS AND IMMUNOTHERAPY IN CANCER RESEARCH- 2021

B.S.A.R CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, INDIA

WINNER IN ORAL PRESENTATION

INTERNATIONAL CONFERENCE ON NOVEL AND ALTERNATIVE THERAPEUTICS FOR NEURODEGENERATIVE DISEASES MEDIATED THROUGH UNFOLDED PROTEIN RESPONSE

B.S.A.R CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, INDIA

WINNER IN POSTER PRESENTATION

15TH GENETIC ENGINEERING RESEARCH SYMPOSIUM

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI, INDIA

REFERENCES

Dr. M. PARANI, Ph.D. PROFESSOR,
Department of Genetic Engineering,
SRM Institute of Science and Technology,
Kattankulathur – 603203, India.
Mobile: (+91) 73587 60655
Email: paranim@srmist.edu.in

Dr. SATISH RAMALINGAM, Ph.D. ASSOCIATE PROFESSOR (SL.G),
Department of Genetic Engineering,
SRM Institute of Science and Technology,
Kattankulathur – 603203, India.
Mobile: (+91) 95660 59076
Email: satishr@srmist.edu.in

Dr. M. RAMYA, Ph.D. PROFESSOR & HEAD
Department of Genetic Engineering,
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