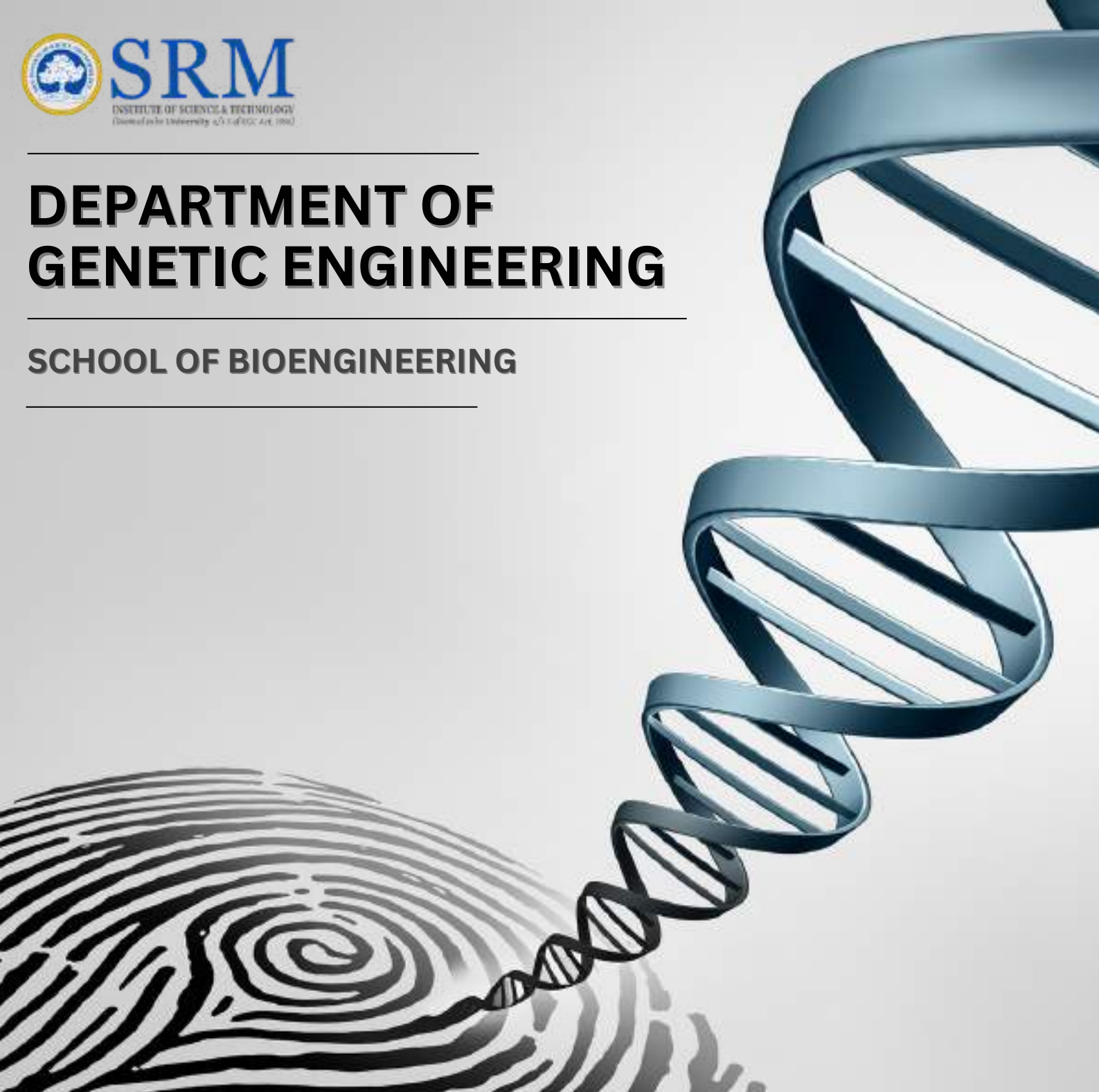


# DEPARTMENT OF GENETIC ENGINEERING

SCHOOL OF BIOENGINEERING



# THE GENETICIST

VOLUME TWO  
ISSUE 2

JULY TO DECEMBER  
2023

# *Table of* **CONTENTS**

- 3 MESSAGE FROM  
CHAIRPERSON
- 4 MESSAGE FROM HOD
- 5 EDITOR'S DESK



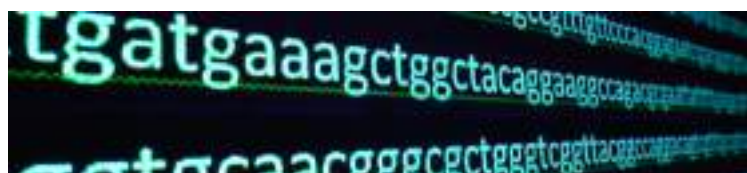
- 6 THE TEAM BEHIND THIS  
EDITION
- 7 ABOUT THE  
DEPARTMENT
- 8 VISION AND MISSION
- 9 RESEARCH LABS &  
FACILITIES
- 11 RESEARCH  
PUBLICATIONS



- 20 RESEARCH GRANTS AND  
FELLOWSHIP



- 23 STUDENTS  
SCHOLARSHIP/  
FELLOWSHIP
- 26 CONFERENCES &  
SCIENTIFIC ACTIVITIES  
OF STUDENTS
- 28 EXAMINER/DC  
MEMBERS/OTHERS
- 29 SEMESTER ABROAD  
PROGRAM (SAP)
- 30 FACULTY ABROAD  
PROGRAM (FAP)



- 32 PROFESSIONAL  
MEMBERSHIPS
- 36 EVENTS
- 39 INDUSTRIAL VISITS
- 41 FACULTY MEMBERS

## MESSAGE FROM CHAIRPERSON

“

"Gratitude makes sense of our past, brings peace for today, and creates vision for tomorrow"

— Melody Beattie

”

I am happy that the Department of Genetic Engineering, School of Bioengineering, SRM Institute of Science and Technology has taken steps to bring out the second volume of the newsletter, "The Geneticist". The Department of Genetic Engineering is an vibrant department at SRMIST and this newsletter highlights the achievements of the undergraduate and postgraduate students, research scholars and faculty during July-December 2023. This kind of projection will encourage competitive spirit among students and faculty so that they can reach a new

milestone in genetic engineering research. This will also motivate youngsters to learn new developments in biological research and come out with innovative ideas for exploration and validation. In addition, this will also make faculty and students from other disciplines to know more about the academic and research activities in the Department of Genetic Engineering and initiate multidisciplinary research. I congratulate the team responsible for bringing out the newsletter "The Geneticist" and wish this endeavor all the best.



**Dr. M. Vairamani**

**Chairperson**

School of Bioengineering  
SRM Institute of Science  
&Technology

“

“Don't be pushed around by the fears in your mind. Be led by the dreams in your heart.”

— Roy T. Bennett

”

We are pleased to share the second issue of the second volume THE GENETICIST. Genetic Engineering is one of the specialized fields of study that fuels high-quality research, both basic and applied, involving human, animal, plant, and microorganisms. The E-newsletter showcases the high-quality research work to improve reader access, promote interdisciplinary collaborations, and acclaim more recognition to the faculty, scholars, the department and eventually the Institute. I firmly believe that this small step forward would motivate the faculty to form alliances,

collaborate cross-discipline, attract external funds, and deliver through patents and products. I would also like to take this opportunity to thank the contributors of the newsletter.



Dr. M. Ramya  
Professor and Head  
Department of Genetic  
Engineering  
School of Bioengineering  
SRM Institute of Science  
&Technology



## EDITOR'S DESK

Dear Readers,

We take immense pleasure in announcing the release of the second issue of the second volume of THE GENETICIST, which showcases the activities and achievements of our students and faculty in the last six months (July 2023 - December 2023)

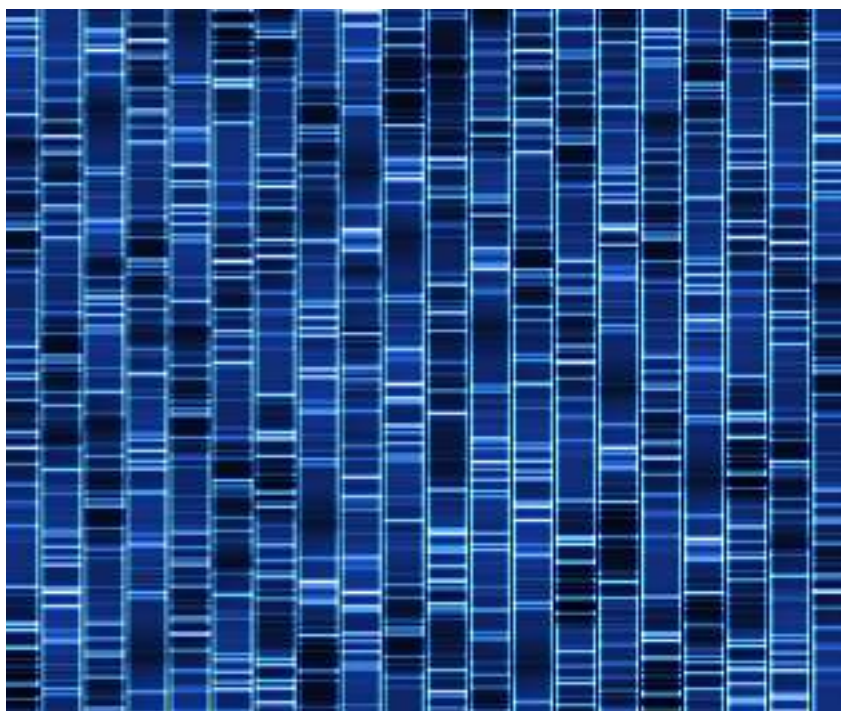
This magazine delivers the contribution of students and faculty members towards teaching and, research. It also highlights the numerous accomplishments of the members of the department in research article publication, acquiring grants and fellowships, patenting and IPR.

We thank the Chairperson, School of Bio-engineering, HOD, staff, and students of the Department of Genetic Engineering for their contributions and support in framing this magazine.

Happy Reading!

Dr. G. Ganesan

Dr. P. Rathinasabapathi



# THE TEAM BEHIND THIS EDITION



**Manvi Shrimal**  
(B.Tech IV<sup>th</sup> year)



**Shriya P**  
(B.Tech IV<sup>th</sup> year)



**Dr. G. Ganesan**



**Dr. P. Rathina-  
sabapathi**

# ABOUT THE DEPARTMENT

The world has come to realize the importance of Genetic Engineering in diagnosis of genetic disease, identification of pathogenic mutations, creating genetically modified organisms and producing better varieties of crops with higher yield. The rapid scientific progress that led to the development of DNA sequencing technologies and gene editing approaches have emphasized the necessity to combine the classical field, such as, genetics with fast emerging fields, like genomics and genome editing. Genetic Engineering is the backbone of biotechnology and the opportunities for a genetic engineer in clinical and applied genetics today and in the future are boundless. Started in the year 2004, the department aims to produce genetic engineers who excel in the field of genomics and gene editing. The department has brought together state of the art laboratories and a highly experienced and dedicated team of faculty. The department takes immense care to impart knowledge in a highly interactive mode, hands-on training in advanced molecular biology techniques and cutting-edge research opportunities.



# VISION AND MISSION



To emerge as a center of excellence in genetic engineering and to provide research oriented holistic learning experience that enables the graduates blossom into intellectually capable, professionally committed and socially responsible individuals who are able to conduct ethical research..

- Built-in mechanism to inculcate professional commitment, ethical values and social relevance.
- Designing continually evolving curriculum with emphasis on research oriented learning and creative thinking towards basic and applied sciences.
- Attracting faculty, students and scholars with strong desire for research and providing them with inspiring research environment to excel in thrust areas of the department.





# RESEARCH LABS AND FACILITIES

The Department has various state-of-the-art equipment which enable the faculties, research scholars, M.Tech and B.Tech. students to conduct their research in various fields like cancer biology, stem cell technology, microbial genetics, developmental biology, and plant genetic engineering. These equipments are also utilized by other department scholars and academicians as part of the consultancy services offered by the Department of Genetic Engineering.

## Teaching Labs

- Bio separation Lab
- Genetic Engineering Lab

## Research Labs

- Scholar Lab I
- Scholar Lab II
- Common Research Facility
- Stem Cell Biology Lab

## Funded Labs

- Genomics Lab
- Immuno Genetics Lab
- Membrane Protein Interaction Lab
- Molecular Genetics Lab
- Plant Virology Lab
- Sponsored Research Lab
- Zebrafish Genetics Lab
- Cancer Biology Lab
- Computational Biology Lab

## **LIST OF SOPHISTICATED INSTRUMENTS AVAILABLE FOR RESEARCH AND CONSULTANCY SERVICES**

- Karyotyping System and Olympus Microscope - BioGen Technologies
- Fluorescence Spectrometer - Hitachi F4700
- Real Time PCR - Applied Biosystems
- Air Jacket CO2 Incubator - Nectranova
- Particle Delivery System (GeneGun) - Biorad
- Plant Growth Chamber - Sanyo
- FPLC - Bio Rad Laboratories
- Inverted Trinocular Fluorescence Microscope - Nikon ts2fl
- Vacuum Concentrator - Eppendorf
- HPLC - Waters
- Biosafety Class-II Laminar Air Flow - Esco
- Zebrafish Aquarium System - Tecniplast
- Micromanipulator - Wpi
- Nanodrop - Thermo Scientific
- Electroporator - Bio Rad Laboratories
- PCR Machines - Agilent, Eppendorf, Applied Biosystems
- Stereozoom Microscope- Weswox STM-80
- Inverted Tissue Culture Trinocular Microscope- Magnus

# RESEARCH PUBLICATIONS

## JULY - DECEMBER 2023

Kudos to the students and faculties, Genetic Engineering for their dedication to innovative research and sincere efforts to publish them in highly acclaimed journals. The Department's research is summarized below Kudos to the students and faculties, Genetic Engineering for their dedication to innovative research and sincere efforts to publish them in highly acclaimed journals.

|                      |      |
|----------------------|------|
| Total Publications   | 53   |
| Corresponding author | 45   |
| Co-author            | 8    |
| High IF              | 8.8  |
| Average IF           | 4.89 |

# RESEARCH PUBLICATIONS

## JULY - DECEMBER 2023

### 01

SELVARAJ BARATHI, J GITANJALI, GANDHIMATHI RATHINASAMY, NADANA SABAPATHI, KN ARULJOTHI, JINTAE LEE, SABARISWARAN KANDASAMY (2023) RECENT TRENDS IN POLYCYCLIC AROMATIC HYDROCARBONS POLLUTION DISTRIBUTION AND COUNTERACTING BIO-REMEDIATION STRATEGIES. CHEMOSPHERE. IF: 8.8  
DOI: 10.1016/J.CHEMOSPHERE.2023.139396

### 02

MASILAMANI KARTHIKEYAN, G. DEVANAND VENKATASUBBU, PASUPATHI RATHINASABAPATHI (2023) A LABEL-FREE CARBON DOTS-BASED FLUORESCENT APTASENSOR FOR THE DETECTION OF V. CHOLERA O139. DIAMOND AND RELATED MATERIALS IF: 4.10  
DOI: 10.1016/J.DIAMOND.2023.110173

### 03

E RAJALAKSHMI, ARCHANA VISHWAKARMA, ANANDKUMAR BALAKRISHNAN, RAMYA MOHANDASS (2023) ASSESSMENT OF THE GROWTH INHIBITION AND ANTI-BIOFILM ACTIVITY OF APTAMER (PMA2G02) AGAINST PROTEUS MIRABILIS 1429T. RESEARCH IN MICROBIOLOGY. IF: 3.73  
DOI: 10.1016/J.RESMIC.2023.104105

### 04

YASODHA KESAVAN, LIZHA MARY LAZER, SURAJIT PATHAK, SATISH RAMALINGAM (2023) EXOSOMES FROM METASTATIC COLON CANCER CELLS DRIVE THE PROLIFERATION AND MIGRATION OF PRIMARY COLON CANCER THROUGH INCREASED EXPRESSION OF CANCER STEM CELL MARKERS CD133 AND DCLK1. TISSUE AND CELL. IF: 2.89  
DOI: 10.1016/J.TICE.2023.102163

### 05

MANIVANNAN KARTHIKEYAN, BABURAJ BASKAR, VEERAPANDIYAN KANDASAM, USHA BALASUNDARAM (2023) GLUTATHIONE ELICITS ENHANCED BIOSYNTHESIS OF BONDUCCELLIN, A HOMOISOFLAVONOID, IN CAESALPINIA BONDUCCELLA LEAF CALLUS. PLANT CELL, TISSUE AND ORGAN CULTURE. IF: 3.11  
DOI: 10.1007/S11240-023-02551-1

### 06

GOR, R., GHARIB, A., BALAJI, PD., MADHAVAN, T., RAMALINGAM, S. (2023) INDUCING CYTOTOXICITY IN COLON CANCER CELLS AND SUPPRESSING CANCER STEM CELLS BY DOLASETRON AND KETOPROFEN THROUGH INHIBITION OF RNA BINDING PROTEIN PUM1. TOXICS. IF: 4.472  
DOI: 10.3390/TOXICS11080669

### 07

RANINDITA MENON, VETRISSELVI, MARCUS SAMUEL, REX ARUNRAJ (2023) PROPERTIES AND APPLICATIONS OF ALPHA-GALACTOSIDASE IN AGRICULTURAL WASTE PROCESSING AND SECONDARY AGRICULTURAL PROCESS INDUSTRIES. JOURNAL OF SCIENCE OF FOOD AND AGRICULTURE. IF: 3.64  
DOI: 10.1002/JSFA.12911



# RESEARCH PUBLICATIONS

## JULY - DECEMBER 2023

### 08

J. ASHWINI JOHN, ETHIRAJ SELVARAJAN (2023) GENOMIC ANALYSIS OF LIGNOCELLULOLYTIC ENZYME PRODUCING NOVEL STREPTOMYCES SP.MS2A FOR THE BIOETHANOL APPLICATIONS. INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. IF: 8.20  
DOI: 10.1016/J.IJBIOMAC.2023.126138

### 09

SHAHJAHAN A, SRUTHI S, KUMARAN K, KN ARULJOTHI (2023) THE CYTOTOXIC AND ANTI-TUMOR POTENTIAL OF METHANOLIC EXTRACTS OF INDIAN MARINE ISOLATES IN HCT116 COLORECTAL CANCER CELLS. ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY. IF: 2.51  
DOI: 10.2174/1871520623666230810094755

### 10

ALGHADEER, A., HANSON-DRURY, S., PATNI, A. P., EHNES, D. D., ZHAO, Y. T., LI, Z., PHAL, A., VINCENT, T., LIM, Y. C., O'DAY, D., SPURRELL, C. H., GOGATE, A. A., ZHANG, H., DEVI, A., WANG, Y., STARITA, L., DOHERTY, D., GLASS, I. A., SHENDURE, J., FREEDMAN, B. S., RUOHOLA-BAKER, H. (2023) SINGLE-CELL CENSUS OF HUMAN TOOTH DEVELOPMENT ENABLES GENERATION OF HUMAN ENAMEL. DEVELOPMENTAL CELL. IF: 13.42  
DOI: 10.1016/J.DEVCEL.2023.07.013

### 11

ARCHANA VISHWAKARMA, YOGESAN MEGANATHAN, MOHANDASS RAMYA (2023) APTAMER-BASED ASSAY FOR RAPID DETECTION, SURVEILLANCE, AND SCREENING OF PATHOGENIC LEPTOSPIRA IN WATER SAMPLES. SCIENTIFIC REPORTS. IF: 4.60  
DOI: 10.1038/S41598-023-40120-W

### 12

SINGH, RASHMI, MELVIN S. SAMUEL, MADHUMITA RAVIKUMAR, SELVARAJAN ETHIRAJ, VENKATESAN SAVUNTHARI KIRANKUMAR, MOHANRAJ KUMAR, R. ARULVEL, SAGADEVAN SURESH (2023) PROCESSING OF CARBON-BASED NANOMATERIALS FOR THE REMOVAL OF POLLUTANTS FROM WATER/WASTEWATER APPLICATION. WATER. IF: 3.53  
DOI: 10.3390/W15163003

### 13

RUDRA AWDHESH KUMAR MISHRA, GOTHANDAM KODIVERI MUTHUKALIANNAN, PASUPATHI RATHINASABAPATHI (2023) EFFECTS OF FLAVONOIDS AND ANTIBIOTICS COMBINATION ON PREFORMED BIOFILMS AND SMALL RNA OF STAPHYLOCOCCUS AUREUS. INDIAN JOURNAL OF MICROBIOLOGY. IF: 1.6  
DOI: 10.1007/S12088-023-01086-5

### 14

RUCHI BHOLE, DELICIA GONSALVES, GOKULAKRISHNAN MURUGESAN, MANOJ KUMAR NARASIMHAN, N. R. SRINIVASAN, NIYAM DAVE, THIVAHARAN VARADAVENKATESAN, RAMESH VINAYAGAM, MUTHUSAMY GOVARTHANAN, RAJA SELVARAJ (2023) SUPERPARAMAGNETIC SPHERICAL MAGNETITE NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND CATALYTIC POTENTIAL. APPLIED NANOSCIENCE. IF: 3.67  
DOI: 10.1007/S13204-022-02532-4

# RESEARCH PUBLICATIONS

## JULY-DECEMBER 2023

**15**

NANDHANA GANAPATHY SALINI, RIKHIA MAJUMDAR, SHAHJAHAN AHAMAD AND SHOBANA SUGUMAR (2023) IN SILICO IDENTIFICATION OF CADMIUM BINDING PROTEIN AND ITS SECRETED METALLOPROTEINS IN STENOTROPHOMONAS MALTOPHILIA. CURRENT CHEMICAL BIOLOGY. IF: 0.90  
DOI: 10.2174/2212796817666230911094043

**16**

SRUTHY SATHISH, PANNEER DEVARAJU, ANGELINE JULIUS, HONGLAE SOHN, THIRUMURTHY MADHAVAN (2023) IDENTIFICATION OF SELECTIVE INHIBITORS FOR JANUS KINASE 1: AN INTEGRATED DRUG REPURPOSING STRATEGY FOR BREAST CANCER. CHEMICAL PAPERS. IF: 2.146  
DOI: 10.1007/S11696-023-03070-1

**17**

RASHMI SINGH, MELVIN S. SAMUEL, MADHUMITA RAVIKUMAR, SELVARAJAN ETHIRAJ, V.S. KIRANKUMAR, MOHANRAJ KUMAR, R. ARULVEL, SAGADEVAN SURESH (2023) A NOVEL APPROACH TO ENVIRONMENTAL POLLUTION MANAGEMENT/REMEDIATION TECHNIQUES USING DERIVED ADVANCED MATERIALS. CHEMOSPHERE. IF: 8.8  
DOI: 10.1016/J.CHEMOSPHERE.2023.140311

**18**

ARCHANA RAJAVEL, VISWANATHAN VENKATARAMAN, JAYSEELAN MURUGAIYAN, VAIRAMANI MARIAPPAN, RAJA NATESAN SELLA (2023) IDENTIFICATION OF EXTRACELLULAR VESICLES DERIVED FROM PLASMA USING MALDI-TOF MS: INFLUENCE OF OPERATING CONDITIONS. JOURNAL OF APPLIED BIOTECHNOLOGY REPORTS. IF: 1.16.  
DOI: 10.30491/JABR.2023.380590.1595

**19**

SAMRUTI KUMAR, RAJIB DHAR, LOKESH BABU SIRKALI SURESH KUMAR, GAURESH GURUDAS SHIVJI, RAMA JAYARAJ, ARIKKETH DEVI (2023) THERANOSTIC SIGNATURE OF TUMOR-DERIVED EXOSOMES IN CANCER. MEDICAL ONCOLOGY. IF: 3.4  
DOI: 10.1007/S12032-023-02176-6

**20**

GNANAPRAKASH JEYARAJ, SWAPNA GEETANJALI A (2023) INFECTIVITY ANALYSIS OF CHILLI LEAF CURL AHMEDABAD VIRUS AND ITS ASSOCIATED TOMATO LEAF CURL BANGLADESH BETASATELLITE COMPLEX IN CHILI. PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY. IF: 2.66  
DOI: 10.1016/J.PMPP.2023.102167

**21**

SURESH VINEESH, RAJU BALAJI, TANUJA, MADASAMY PARANI (2023) THE COMPLETE CHLOROPLAST GENOME OF OCIMUM AMERICANUM LINNAEUS 1755 AND PHYLOGENETIC ANALYSIS AMONG THE LAMIACEAE FAMILY. PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY. IF: 0.56  
DOI: 10.1080/23802359.2023.2264545

# RESEARCH PUBLICATIONS

## JULY-DECEMBER 2023

**22**

PANICKER, S., CHENGIZKHAN, G., GOR, R., RAMACHANDRAN, I., RAMALINGAM S (2023) EXPLORING THE RELATIONSHIP BETWEEN FUSION GENES AND MICRORNAS IN CANCER. CELLS. IF: 6.0  
DOI: 10.3390/CELLS12202467

**23**

MELVIN S SAMUEL, ASHWINI JOHN. J, MADHUMITA RAVIKUMAR, PANKAJ RAIZADA, NUR IZYAN WAN AZELEE, **ETHIRAJ SELVARAJAN**, RANGABHASHIYAM SELVASEMBIAN (2023) RECENT PROGRESS ON THE REMEDIATION OF DYES IN WASTEWATER USING CELLULOSE-BASED ADSORBENTS. INDUSTRIAL CROPS AND PRODUCTS. IF: 6.449  
DOI: 10.1016/J.INDCROP.2023.117590

**24**

RAY SHARMISHTHA, TANUJA TANUJA, RAJU BALAJI, **MADASAMY PARANI** (2023) THE COMPLETE CHLOROPLAST GENOME OF PHYLLOCLADUS NODIFLORA (LINNAEUS) GREENE (1899) FROM THE VERBENACEAE FAMILY AND ITS PHYLOGENETIC ANALYSIS. MITOCHONDRIAL DNA PART B. IF: 0.56  
DOI: 10.1080/23802359.2023.2266877

**25**

KIRANKUMAR SANTHAKUMAR (2023) NEUROENDOCRINE REGULATION OF REPRODUCTION IN FISH – MINI REVIEW. AQUACULTURE AND FISHERIES. IF: 6.7  
DOI: 10.1016/J.AAF.2023.09.001

**26**

CALMLY M. KOSHY, **SHOBANA SUGUMAR** (2023) ISOLATION, CHARACTERIZATION, AND GENOME ANALYSIS OF NOVEL BACTERIOPHAGE – STENOTROPHOMONAS PHAGE CM1. MICROBIAL PATHOGENESIS. IF: 3.98  
DOI: 10.1016/J.MICPATH.2023.106403

**27**

MOHAN GUNDLURU, SANTHISUDHA SARVA, SUMITHRA POREDDY, POOJITHA B, ASHWINI JOHN, **SELVARAJAN ETHIRAJ**, SURESH REDDY CIRANDUR (2023) DESIGN, SYNTHESIS, ANTIBACTERIAL EVALUATION, AND MOLECULAR DOCKING STUDIES OF DIETHYL((SUBSTITUTED PHENYL)((4-(N-(5-METHYL-4,5-DIHYDROISOXAZOL-3-YL)SULFAMOYL)PHENYL)AMINO)METHYL)PHOSPHONATES. SYNTHETIC COMMUNICATIONS. IF: 3.98  
DOI: 10.1016/J.BIOORG.2017.12.017

**28**

SRIRAMULU INDHUKUMAR KIRANKUMAR, RAJU BALAJI, TANUJA, **MADASAMY PARANI** (2023) THE COMPLETE CHLOROPLAST GENOME OF OCIMUM BASILICUM L. VAR. BASILICUM (LAMIACEAE) AND ITS PHYLOGENETIC ANALYSIS. MITOCHONDRIAL DNA PART B. IF: 0.56  
DOI: 10.1080/23802359.2023.2275835

**29**

THASMA LOGANATH BABU VASANTH KANTH, ARCHI RAHA, R M VIJAY MURALI, NATESAN YUVATHA, KASINATHAN KUMARAN, RANGASAMY KIRUBAKARAN, **KN ARULJOTHI** (2023) REPURPOSING OF CLINICALLY PROVEN BIOACTIVE COMPOUNDS FOR TARGETED TREATMENT OF ALZHEIMER'S DISEASE USING MOLECULAR DOCKING APPROACH. IN SILICO PHARMACOLOGY. IF: 4.3  
DOI: 10.1007/S40203-023-00173-1

# RESEARCH PUBLICATIONS

## JULY-DECEMBER 2023

### 30

ASHA ABRAHAM, HABEEB SHAIK MOHIDEEN, R. KAYALVIZHI (2023) A TABULAR VARIATIONAL AUTO ENCODER-BASED HYBRID MODEL FOR IMBALANCED DATA CLASSIFICATION WITH FEATURE SELECTION. IEEE ACCESS. IF: 3.9

DOI: 10.1109/ACCESS.2023.3329139

### 31

RAMYA RAMADOSS, SRUTHY SATHISH, HONGLAE SOHN, THIRUMURTHY MADHAVAN (2023) POTENCY OF ANTI-FIBROTIC HERBS ON FIBROGENESIS: A THEORETICAL EVALUATION. PHYTOMEDICINE PLUS. IF: 2.46

DOI: 10.1016/J.PHYPLU.2023.100496

### 32

RUPESH KUMAR, THIRUMURTHY MADHAVAN, KALAIARASAN PONNUSAMY, HONGLAE SOHN, SHAZIA HAIDER (2023) COMPUTATIONAL STUDY OF THE MOTOR NEURON PROTEIN KIF5A TO IDENTIFY NSSNPS, BIOACTIVE COMPOUNDS, AND ITS KEY REGULATORS. FRONTIERS IN GENETICS. IF: 4.772

DOI: 10.3389/FGENE.2023.1282234

### 33

K KUMARAN AND KN ARULJOTHI (2023) COMMENT ON: "PLASMA CELL-FREE DNA IS A POTENTIAL BIOMARKER FOR DIAGNOSIS OF CALCIFIC AORTIC VALVE DISEASE". CARDIOLOGY. IF: 1.79

DOI: 10.1159/000534743

### 34

HEMALATHA MANIVANNAN, ANIKESH KRISHNAMURTHY, RAHUL MACHERLLA, SIVA CHIDAMBARAM, SARAVANAN PANDIARAJ, MUTHUMAREESWARAN MUTHURAMAMOORTHY, SELVARAJAN ETHIRAJ, G. MOHAN KUMAR (2023) ENHANCING THE SILICA-MAGNETIC CATALYST-ASSISTED BIOETHANOL PRODUCTION FROM BIOWASTE VIA ULTRASONICS. CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY. IF: 4.3

DOI: 10.1007/S10098-023-02638-5

### 35

PRASANNA, JENISHA, RATHINASABAPATHI, REX ARUNRAJ (2023) EXPLORING THE IMPACT OF 1-DEOXYNOJIRIMYCIN ON ALPHAGALACTOSIDASE ACTIVITY AND CHICKPEA SEED GERMINATION THROUGH IN VITRO EXPERIMENTS AND MOLECULAR DOCKING ANALYSIS. JOURNAL OF SEED SCIENCE. IF: 1.11

DOI: 10.1590/2317-1545V45273706

### 36

RASHMI SINGH, MELVIN S. SAMUEL, MADHUMITA RAVIKUMAR, SELVARAJAN ETHIRAJ, MOHANRAJ KUMAR (2023) GRAPHENE MATERIALS IN POLLUTION TRACE DETECTION AND ENVIRONMENTAL IMPROVEMENT. ENVIRONMENTAL RESEARCH. IF: 8.43

DOI: 10.1016/J.ENVRES.2023.117830



# RESEARCH PUBLICATIONS

## JULY - DECEMBER 2023

### 37

VARADHARAJAN BHOOMA, SOPHIE LORRAINE VASSOU, ILANGO KALIAPPAN, MADASAMY PARANI (2023) IDENTIFICATION OF ADULTERATION IN THE MARKET SAMPLES OF SAFFRON USING MORPHOLOGY, HPLC, HPTLC, AND DNA BARCODING METHODS. GENOME. IF: 2.17  
DOI: 10.1139/GEN-2022-0059

### 38

RAMESH VINAYAGAM, VASUNDRA NAGENDRAN, LOUELLA CONCEPTA GOVEAS, MANOJ KUMAR NARASIMHAN, THIVAHARAN VARADAVENKATESAN, NARENDHAR CHANDRASEKAR, RAJA SELVARAJ (2023) STRUCTURAL CHARACTERIZATION OF MARINE MACROALGAE DERIVED SILVER NANOPARTICLES AND THEIR COLORIMETRIC SENSING OF HYDROGEN PEROXIDE. MATERIALS CHEMISTRY AND PHYSICS. IF: 4.60  
DOI: 10.1016/J.MATCHEMPHYS.2023.128787

### 39

PRADEEPTI GANESH, VANISHREE SURESH, MANOJ KUMAR NARASIMHAN, SARVESH SABARATHINAM (2023) A NARRATIVE REVIEW ON NARINGIN AND NARINGENIN AS A POSSIBLE BIOENHANCER IN VARIOUS DRUG-DELIVERY FORMULATIONS. THERAPEUTIC DELIVERY. IF: 3.08  
DOI: 10.4155/TDE-2023-0086

### 40

GNANAPRAKASH JEYARAJ, VINOTH ALPHONSE, P. JAYANTHI, NEHA ANGELIN F, SWAPNA GEETANJALI A, GANESAN GOVINDAN (2023) HARNESSING THE POTENTIAL OF CRISPR/CAS SYSTEM FOR ENHANCING VIRUS RESISTANCE IN PLANTS: TARGETS, STRATEGIES, AND CHALLENGES. PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY. IF: 2.66  
DOI: 10.1016/J.PMPP.2023.102202

### 41

MEGALA JAYARAMAN, DIVEYAA SIVAKUMAR (2023) CHILDHOOD HEART TUMORS: DETECTION, DIAGNOSIS, AND TREATMENTS. CURRENT CANCER THERAPY REVIEWS. IF: 0.54  
DOI: 10.2174/0115733947272587231115074506

### 42

K. HARSHA PRABHA, MAHALAKSHMI NANNAN, SIVARAMAKRISHNAN VENKATABALASUBRAMANIAN (2023) PREPARATION OF ZINC OXIDE-CARBOXYMETHYL CELLULOSE BLENDED WITH CYCLOPHOSPHAMIDE FOR TARGETED DRUG DELIVERY TO LUNG ADENOCARCINOMA CELLS. JOURNAL OF APPLIED BIOLOGY AND BIOTECHNOLOGY. IF: 1.06  
DOI: 10.7324/JABB.2023.145826

### 43

JULIE REBECCA JOSEPH MATHARI, HABEEB SHAIK MOHIDEEN (2023) COTTON (GOSSYPIUM SPP.) PEST MANAGEMENT IN THE ERA OF NEXT-GENERATION SEQUENCING: A REVIEW. JOURNAL OF APPLIED BIOLOGY AND BIOTECHNOLOGY. IF: 1.06  
DOI: 10.7324/JABB.2023.149697

# RESEARCH PUBLICATIONS

## JULY - DECEMBER 2023

### 44

KRISHNAMOORTHY PRIYA, AYSIKA DAS, MOHANDASS RAMYA (2023) DEVELOPMENT OF REAL-TIME POLYMERASE SPIRAL REACTION ASSAY FOR RAPID AND VISUAL DETECTION OF TREPONEMA PALLIDUM. JOURNAL OF APPLIED BIOLOGY AND BIOTECHNOLOGY. IF: 1.06  
DOI: 10.7324/JABB.2023.145559

### 45

ARCHANA VISHWAKARMA, PUNITH CHOWDARY, MOHANDASS RAMYA (2023) RAPID AND VISUAL DETECTION OF LEPTOSPIRA INTERROGANS USING POLYMERASE SPIRAL REACTION ASSAY. JOURNAL OF APPLIED BIOLOGY AND BIOTECHNOLOGY. IF: 1.06  
DOI: 10.7324/JABB.2023.144426

### 46

SUGANTHI M, ABIRAMI G, JAYANTHI M, ASHOK KUMAR K, DEEPAN S, SENTHILKUMAR P (2023) ISOLATION AND CLONING OF THE PSEUDOMONAS FLUORESCENS CHITINASE GENE – AN ECOFRIENDLY APPROACH FOR ITS USE AS A SPECIFIC BIOPESTICIDE. JOURNAL OF APPLIED BIOLOGY AND BIOTECHNOLOGY. IF: 1.06  
DOI: 10.7324/JABB.2023.144437

### 47

ASHOKKUMAR RAMAKRISHNAN YADAV, VAISHNAVI ASHOKKUMAR, SUGANTHI MUTHUSAMY, SENTHILKUMAR PALANISAMY (2023) ROLE OF DREB GENES IN THE REGULATION OF SALT STRESS-MEDIATED DEFENSE RESPONSES IN PLANTS. JOURNAL OF APPLIED BIOLOGY AND BIOTECHNOLOGY. IF: 1.06  
DOI: 10.7324/JABB.2023.144143

### 48

PEARL EVANGELINE, DIVYASRI, AKSHAYA C, SRUTHI SEKAR, KIRUBAKARAN R, KN ARULJOTHI (2023) METHODOICAL AND IMMUNOLOGICAL INSIGHTS OF PRIME COVID-19 VACCINES. CORONA VIRUSES. IF: 1.3  
DOI: 10.2174/0126667975275824231213112949

### 49

SHAMBHAVI JHA, VASANTH KANTH TL, K KUMARAN, GOPINATH K, KN ARULJOTHI (2023) LONG NON-CODING RNAs (LNCRNAs) IN HEART FAILURE: A COMPREHENSIVE REVIEW. NON CODING RNA. IF: 4.20  
DOI: 10.3390/NCRNA10010003

### 50

NARESH NARAYANAN PRABAKARAN, SELVARAJAN ETHIRAJ, NAGESWARA RAO DUNNA & SIVARAMAKRISHNAN VENKATABALASUBRAMANIAN (2023) BLENDING, CHARACTERIZATION, AND EXPERIMENTAL ANALYSIS OF ZNO-CARBOXY METHYL CELLULOSE-METHYL GALLIC ACID NANOCOMPOSITES AGAINST LUNG CANCER CELLS. EMERGENT MATERIALS. IF: 4.04  
DOI: 10.1007/S42247-023-00614-9

# RESEARCH PUBLICATIONS

## JULY - DECEMBER 2023

### 51

SOLAIPRIYA SOLAIRAJA, HABEEB SHAIK MOHIDEEN, SIVARAMAKRISHNAN VENKATABALSUBRAMANIAN (2023) COMPUTATIONAL IDENTIFICATION AND VALIDATION OF NON-SYNONYMOUS SNPS IN PROGESTERONE RECEPTOR MEMBRANE COMPLEX 1 LINKED TO LUNG CANCER. INTERNATIONAL JOURNAL OF EXPERIMENTAL RESEARCH AND REVIEW. IF: 1.13  
DOI: 10.52756/IJERR.2023.V36.006

### 52

YASODHA KESAVAN, SHEIK MOHIDEEN SAHABUDEEN, SATISH RAMALINGAM (2023) EXOSOMES DERIVED FROM METASTATIC COLON CANCER CELLS INDUCED ONCOGENIC TRANSFORMATION AND MIGRATORY POTENTIAL OF IMMORTALIZED HUMAN CELLS. INTERNATIONAL JOURNAL OF EXPERIMENTAL RESEARCH AND REVIEW. IF: 1.13  
DOI: 10.52756/IJERR.2023.V36.003

### 53

ARCHIT GUPTA, CHANDRASEKAR RAMAN, HABEEB SHAIK MOHIDEEN (2023) COREGULATORY MECHANISM AND INTERACTOME NETWORK OF MIRNA, LNCRNA, AND MRNA INVOLVED IN HUMAN DISEASES. JOURNAL OF APPLIED PHARMACEUTICAL SCIENCES. IF: 1.47  
DOI: 10.7324/JAPS.2023.175392

# RESEARCH GRANTS (ACTIVE)

| Investigator  | Title of the Project   | Funding agency   | Amount (lakhs) |
|---|--|--|----------------|
| Dr. K. Rajinish (PI)<br>Dr. Thirumurthy (Co-PI)                           | From data-driven Novel Enzyme Discovery towards Enzyme Combinations for Plastic Degradation                | Indo-Sweden Joint call - Circular Economy, Ministry of Earth Sciences (MoES) | 150            |
| Dr.M.Ramya (PI)<br>Dr.Rathinasabapathi (Co-PI)                            | Development of Point of care Apta-sensor for Early and Rapid Detection of Leptospirosis                    | ICMR   | 32.6           |
| Dr.M.Ramya (PI)<br>Dr. N. Ashwin Kumar (Co-PI)<br>Dr. K. V. Leela (Co-PI) | IoT Based device for Rapid STI Detection of T.pallidum, C. trachomatis and N. gonorrhoeae                  | ICMR   | 98             |
| Dr.M. Parani  | EDII-I-I Innovation Voucher Programme  | Micha Life Sciences  | 2.5            |
| Dr. D. Rex Arun Raj   | Field evaluation of water use efficient growth promoting bacteria-plant associations for increased biomass | State Forest Research Institute/Biozone Research Technologies                | 8.7            |

# SRM EXCELLENCE GRANT

| Investigator        | Title of the Project   | Amount (lakhs) |
|---------------------|--|----------------|
| Dr. P. Senthilkumar | Identification of miRNAs expressed upon UV stress and its role on photosynthesis in oryza sativa a.                                    | 2.5            |
| Dr. S Shobana       | Phage and antibiotic combination for treating polymicrobial UTI infections ", submitted under Selective Excellence Research Initiative | 3.0            |
| Dr. E. Selvarajan   | Microbial diversity analysis and screening for novel xylanase from the marine sediments  | 1.75           |



# STUDENTS SCHOLARSHIP/ FELLOWSHIP

In 2023, thirteen students from the Department of Genetic Engineering received Scholarship/Fellowship.

|                    |    |
|--------------------|----|
| Full Time (PhD)    | 69 |
| Part time (PhD)    | 3  |
| JRF                | 3  |
| SRF                | 1  |
| DST INSPIRE Fellow | 1  |
| UGC Fellow         | 1  |

# STUDENTS SCHOLARSHIP/ FELLOWSHIP

GATE Scholars doing PhD: 12

| Name of the Scholar       | GATE | Guide                 | Year |
|---------------------------|------|-----------------------|------|
| Mr. Gor ravi manishkumar  | GATE | Dr.R.Satish           | 2019 |
| Mr. Prasanna Venkatesh    | GATE | Dr. Rexarunraj        | 2021 |
| Mr. Shinde Nikhil Dhanaji | GATE | Dr.Raja               | 2019 |
| Ms. Saranya E             | GATE | Dr.M.Ramya            | 2019 |
| Ms. Amirtha Varshini M    | GATE | Dr.A.Devi             | 2021 |
| Ms. Anusha M              | GATE | Dr.M.Parani           | 2019 |
| Mr. Ganaprakash J         | GATE | Dr. Swapna geetanjali | 2020 |
| Ms. Safana Farveen        | GATE | Dr. KN. Rajnish       | 2022 |
| Mr. Kumaran K             | GATE | Dr. N. Aruljothi      | 2022 |
| Mr. Chandan Kumar Yadav   | GATE | Dr. Satish            | 2022 |
| Mr. Karthikeyan           | GATE | Dr. Usha              | 2023 |
| Mr. Namrata               | GATE | Dr. S.K.M Habeeb      | 2023 |

## DST Inspire Fellowship

AnanthaKrishna Tantry M S  
Mentor: Dr. S. Kirankumar

Savitribai Jyotirao Phule Fellowship for Single Girl  
Child (SJSGC) - UGC

Sree Kathyayani  
Mentor: Dr. J. Megala

## PhD COMPLETION DETAILS

July - DECEMBER 2023

| NAME   | PROJECT TITLE  | COMPLETION DATE   |
|--|--|-------------------|
| Ms. Lizha Mary L<br>RA1713010011013<br>Guide - Dr. R. Satish     | Effects of chitosan-folate-hesperetinanti doublecortin-like kinase 1 nanoparticles on colon cancer and cancer stem cells in vitro  | November 20, 2023 |
| Mr. K. Ravichandiran<br>RA1713013011001<br>Guide - Dr. M. Parani | Identification of the genes related to the biosynthesis of major secondary metabolites and seed oil through transcriptome sequencing of the fruit tissues of bitter gourd (Momordica charantia L.) | November 23, 2023 |

## CONFERENCES & SCIENTIFIC ACTIVITIES OF RESEARCH SCHOLARS AND M. TECH STUDENTS

Department of Genetic Engineering promotes students and faculties to attend conferences and workshop to update their knowledge in R&D. In 2023, M.Tech students and Research Scholars have participated in several conference and workshops conducted by different institution

| Name        | Register No     | Awards | Event  | Date                  |
|-------------|-----------------|--------|--|-----------------------|
| Ms. Bavya C | RC2113010011021 |        | Recent Innavotions in health and Biological Sciences, PSG college, Coimbatore. | 14.07.2023-15.07.2023 |

# CONFERENCES & SCIENTIFIC ACTIVITIES OF RESEARCH SCHOLARS AND M. TECH STUDENTS

| Name                     | Register No     | Awards                   | Event   | Date                  |
|--------------------------|-----------------|--------------------------|---|-----------------------|
| Ms. Prathiba V           | RA2113010011018 |                          | International Conference on Current Technologies and Opportunities in Bioscience                              | August 9-10, 2023     |
| Ms. Lakshmi              | RA2113010011032 |                          | International Conference on Bioresource technology for bioenergy Bioproduct & Bioenvironmental Sustainability | August 9-10, 2023     |
| Ms. Yashoda K            | RA1913010011038 | Best presentation        | International conference on Recent Innavotions in Biotechnology, Sathyabama                                   | September 21-23, 2023 |
| Mr. Ravi Gor Manishkumar | RC2113011011002 | Best presentation        | International conference on Recent Innavotions in Biotechnology, Sathyabama                                   | September 21-23, 2023 |
| Ms. Calmly M Koshy       | RC2113013011025 |                          | International conference on Bacteriophage Research and antimicrobial resistance                               | September 28-30, 2023 |
| Ms. Ashwini John         | RC2113013011015 |                          | International conference in CSIR-NIIST  | November 27-30, 2023  |
| Ms. Jenisha J            | RC2113010011017 | Best poster presentation | International conference on Trends in Biological Science Impetus on Human Health, SRM Arts and Science        | October 22-23, 2023   |
| Ms. Jeyanthi             | RA1813010011006 | Best poster presentation | ICAR - National Research Centre for Banana  | December 1-3, 2023    |



## CONFERENCE / WORKSHOP / WEBINAR ATTENDED BY THE FACULTY

| Faculty Name  | Event Type | Event Name  | Date            |
|---|------------|---|-----------------|
| Dr. Shobana   | Workshop   | Workshop on Fermentation Technology for life sciences Faculties                 | August, 2023    |
| Dr. Anand T   | Workshop   | Workshop on Fermentation Technology for life sciences Faculties                 | August, 2023    |
| Dr. Satish<br>Dr. Raja<br>Dr. Anand T<br>Dr. Sivaramakrishnan | Conference | International Conference on Molecular Medicine, Reproduction and Endocrinology  | September, 2023 |
| Dr. Shobana   | Conference | International conference on Bacteriophage Research and antimicrobial resistance | September, 2023 |
| Dr. E. Selvarajan   | Conference | International conference NHBT 2023  | November, 2023  |

# EXAMINER/ DC MEMBER/ OTHERS

| Name of Faculty   | Title of FDP/ Conference  | Date                    | Conducted by                   |
|-------------------|---|-------------------------|--------------------------------|
| Dr. Shobana S     | Examiner-Comprehensive viva Sathyabama University.                                  | 13.09.2023              | Sathyabama University          |
| Dr M. Thirumurthy | DC meeting at St.Peter's Engineering college.                                       | 07.09.2023              | St.Peter's Engineering college |
| Dr. Satish R      | Invited lecture at the International Conference on Molecular Medicine, Reproduction | 12.09.2023 - 15.09.2023 | SRMIST                         |
| Dr. Satish R      | Question paper selection member for Vels University Semester Exam.                  | 22.09.2023              | Vels University                |
| Dr. Parani M      | Synopsis meeting at CLRI, Chennai   | 22.09.2023              | CLRI                           |
| Dr. Satish R      | Research Advisory Committee member for a PhD scholar's DC meeting.                  | 21.11.2023              | VISTAS                         |
| Dr. Megala J      | Research advisory committee member or a PhD scholar's DC meeting                    | 22.11.2023              | VISTAS                         |

# STUDENT ABROAD PROGRAM

Semester Abroad Program (SAP) is one such program where SRMIST is recognized across the globe by providing its student's unique international exposure and global opportunities to enhance their skills by working with eminent professors of the universities and accelerate their personal and career growth in India and Overseas. Also, it provides an opportunity to work in cross-cultural and multi-national environment. We are proud to say that about **303 students** have availed SAP from our department and this would not be possible without our faculty members, who made their effort in making the collaborations successful. We believe that SAP will add a new dimension to our student's research interests and develop expertise in various techniques which in turn will empower them with self-confidence and to become independent researchers.

## B.Tech SAPIANS 2023



**Sid Dsa**

**Anna Mathew  
Lawrence**

**Nithin  
Karthic Balaji**

**Sreyank  
Tirunagiri**

**Annesha Dutta**

# STUDENT ABROAD PROGRAM

## B.Tech SAPIANS 2023

| Name                  | Degree | Year | Institution            | Country |
|-----------------------|--------|------|------------------------|---------|
| Anna Mathew Lawrence  | B.Tech | 2023 | Harvard Medical Center | USA     |
| Annesha Dutta         | B.Tech | 2023 | Harvard Medical Center | USA     |
| Nithin Karthic Balaji | B.Tech | 2023 | Harvard Medical Center | USA     |
| Sid Dsa               | B.Tech | 2023 | Harvard Medical Center | USA     |
| Sreyank Tirunagiri    | B.Tech | 2023 | Harvard Medical Center | USA     |

## FACULTY ABROAD PROGRAM

**Dr. P. Rathinasabapathi**

**Host Institute: University of  
Georgia, Georgia, USA**



In the realm of biomanufacturing, the utilization of anaerobic fermentation to produce economically valuable products has emerged as a promising frontier in life science. Dr. Rathinasabapathi found himself immersed in the research activities at Prof. Mark A. Eitman's Lab, situated at the University of Georgia, Georgia, USA. Their approach involved the strategic application of genetic engineering to manipulate the metabolic pathways of anaerobes, specifically targeting the enhancement of C-6 carbon molecules. These molecules serve as crucial precursors to produce Jet Aviation fuel. By synergizing genetic engineering with biochemical processes, they aim to test genetically modified strains in the realm of biofuel applications.



**College of Engineering**  
*School of Chemical, Materials  
and Biomedical Engineering*  
**UNIVERSITY OF GEORGIA**

## PROFESSIONAL MEMBERSHIPS

The faculty of Genetic Engineering department have registered the membership in different professional body as lifetime member/Annual member.

| Sr.no | Name of the faculty | Name of the professional body in which membership was obtained | Annual /Life Membership |
|-------|---------------------|--|-------------------------|
| 1     | V. Sivaramakrishnan | Indian society of chemists and biologists (India)              | Life Member             |
| 2     | Habeeb. S. K. M     | Society of Biological Chemists (India)                         | Life Member             |
| 3     | Thirumurthy M       | Society of Biological Chemists (India)                         | Life Member             |
| 4     | Raja N S            | Society of Biological Chemists (India)                         | Life Member             |
| 5     | Anand T             | Society of Biological Chemists (India)                         | Life Member             |
| 6     | Rajnish N           | Society of Biological Chemists (India)                         | Life Member             |
| 7     | Satish              | Society of Biological Chemists (India)                         | Life Member             |
| 8     | Rex Arunraj         | Society of Plant Biochemistry and Biotechnology                | Life Member             |
| 9     | Aruljothi N         | European Association for Cancer Research                       | Life Member             |
| 10    | Raja N S            | Indian Association of Cancer Research                          | Life Member             |
| 11    | Rathinasabapathi    | The Institution of Engineers (India) - life time member        | Life Member             |
| 12    | Manoj Kumar         | Tamilnadu Pharmacy Council (India)                             | Life Member             |
| 13    | Rathinasabapathi    | The Indian society of human genetics                           | Life Member             |
| 14    | Ganesan G           | Society for Plant Biochemistry and Biotechnology (SPBB)        | Life Member             |

## PROFESSIONAL MEMBERSHIPS

| Sr.no | Name of the faculty | Name of the professional body in which membership was obtained                     | Annual /Life Membership |
|-------|---------------------|--|-------------------------|
| 15    | Anand T             | International Association of engineers and computer scientist                      | Life Member             |
| 16    | Swapna Geetanjali A | Indian Phytopathological Society   | Life Member             |
| 17    | Usha B              | The PCOS Society   | Life Member             |
| 18    | Devi.A              | The Indian Society of Human Genetics   | Life Member             |
| 19    | Selvarajan E        | Indian Socety for Technical Eduction   | Life Member             |
| 20    | Selvarajan E        | The Biotech Research Socety of India   | Life Member             |
| 21    | Iyappan             | The Indian Society of Human Genetics   | Life Member             |
| 22    | M. Parani           | Society for Plant Biochemistry and Biotechnology (Life Member, No. L397)           | Life Member             |
| 23    | M. Parani           | Society of Biological Chemists (India)   | Life Member             |
| 24    | M. Parani           | Indian Society for DNA Fingerprinting & other DNA Technologies (Life Member, L364) | Life Member             |
| 25    | M. Parani           | Indian Society of Human Genetics (Life Member, No. L/1634/2012)                    | Life Member             |
| 26    | M. Parani           | Indian Science Congress Association  | Life Member             |
| 27    | M. Ramya            | Microbiology Society of India  | Life Member             |
| 28    | M. Ramya            | Indian Science Congress Association  | Life Member             |



[illegible]

**ALUMNI INTERACTION SERIES**

DEPARTMENT OF GENETIC ENGINEERING  
&  
DIRECTORATE OF ALUMNI AFFAIRS  
PRESENTS

**MENTORING ON "RESEARCH AS A CAREER"**

AUGUST 17, 2023 @ 2 P.M.

G.N. RAMACHANDRAN HALL  
SCHOOL OF BIOENGINEERING

**CO-ORDINATORS**  
Dr. A. BATHINAN  
Director, DAA  
Prof. M. RAMYA  
Hd. Genetic Engineering  
Dr. B. USHA  
Dr. J. VEGALEA  
Alumni Coordinator

**DR. SUSHMITHA RAJA, PHD**  
ALUMNA (BATCH: B.TECH. 2012)  
SENIOR RESEARCH ASSOCIATE  
VVA CLIMATE, BENGALURU



**ALUMNI INTERACTION SERIES**

**DEPARTMENT OF GENETIC ENGINEERING  
&  
DIRECTORATE OF ALUMNI AFFAIRS**

**PRESENTS**

**Hands-on Workshop**

**"Variant Analysis Using Genome Analysis Toolkit"**



**Dr. Subroto K. Pradhan, Ph.D.**  
Senior Research Fellow  
CAG - Aquaculture  
Thermal  
Batch PhD-2019

**Venue: BSC  
4th floor, School of Bio Engineering,  
SRMIST**

**Friday  
22.09.2018  
9.00 am - 5P**

**Organizing Committee**  
Dr. Balakrishnan, Director, SBA  
Dr. Anandapriya, HOD, Vascular Engineering

**Sponsored by**  
Dr. J. Megan, Associate Professor  
Dr. R. SBA, Associate Professor

**Registration Link:** <https://www.google.com/events/details/srmist-2018-2019>





**Department of Genetic Engineering**

---

Special Invited Talk

**Dr. Tarjan Kaliaperumal**  
**Staff Scientist**  
**Kemin Industries South Asia Pvt. Ltd.**



*"Cellular Agriculture : Fermenting of food"*

**9:00 TO 9:30 AM**  
**Topic : 10:45 AM**  
**Speaker : Prof. Dr. Kaliaperumal Tarjan**  
**11:00 PM, School of Biotechnology, SRMIST**

**Lecturer : Dr. S. Lakshmi**  
**Associate Professor**  
**Department of Genetic Engineering**  
**School of Biotechnology, SRMIST**



# EVENTS PAGE

Department of Genetic Engineering hosted a talk on "Entrepreneurship Awareness Session & Funding Schemes" by Satyamurthy, General Manager, DEI on 17th October 2023.



Two alumni from our department, Dr. Shruti Iyer and Dr. Ayantika Sen, were invited to deliver an online talk session on their research. It was held on 20th October 2023.



Dr. Satish Ramalingam organized a special talk session delivered by Dr. Joy Scaria on "Mining Microbiome as an Alternative for Antibiotics", held on 30th October 2023.



Our department UHV2 B. Tech. II year students were a part of an awareness program on "Genetic and communicable diseases" and other urgent issues on 27th October 2023, at the government school near Singaperumal Koil, Chengalpattu initiated by Dr. B. Usha, NSS coordinator.



On 31st October 2023, Genetic Engineering Association organized a Breast Cancer Awareness Program in the village of Thenmelpakkam to commemorate the Breast Cancer Awareness Month by informing rural people about breast cancer, diagnosis and treatment.

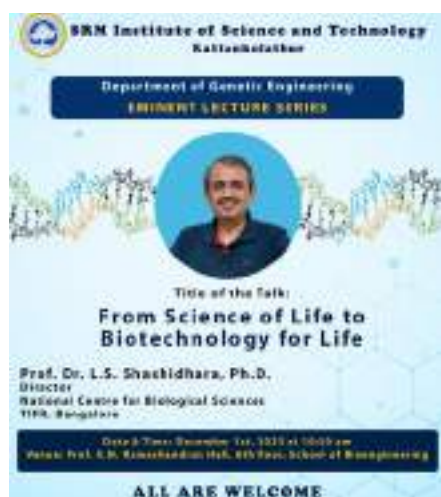


## EVENTS PAGE

Dr. Megala organized a workshop on Cytogenetics Techniques in Diagnostics on 24th November 2023 to impart hands-on training to the students.



As part of the Eminent Lecture Series, Dr. L S Shashidhara was invited to give a talk session on "From Science of Life to Biotechnology of Life", on 1st December 2023.



The Genetic Engineering Dept. conducted Faculty Development Program on Gene Cloning from 4th - 8th December 2023.



Dr. Rajnish KN organized a 2-day Training Program on Production and Purification of Recombinant Proteins on 5th and 6th December 2023.



Dr. Rex Arun Raj and Dr. S. Iyappan organized a 5-day FDP Program on Gene Cloning from 5th and 6th December 2023.



DAA conducted the Alumni Day hosting our valued alumni on 23rd December 2023.





# INDUSTRIAL VISIT

Second Year B. Tech Genetic Engineering students visited Bengaluru and Coorg for their Industrial Visit. The industrial visit was planned for three days 5, 6 and 7th of October 2023. There were 99 students in the second year accompanied by the faculty members Dr. Usha, Dr. N. Arul Jothi, and Dr. Ganesan.

They visited the industry of INDO AMERICAN HYBRID SEEDS (IAHS) in Bengaluru



And the second industry was G SE7EN Coffee N Spices in Coorg, where they examined various processes involved in coffee production.



# FACULTY MEMBERS



# THANK YOU

Visit our official Social Media channels:



[Instagram](#)



[Facebook](#)



[YouTube](#)



[LinkedIn](#)



[Website](#)



[Blog](#)