

NEWSLETTER



THE GENETICIST

**DEPARTMENT OF GENETIC ENGINEERING
SCHOOL OF BIOENGINEERING
SRM INSTITUTE OF SCIENCE & TECHNOLOGY**

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MESSAGE FROM CHAIRPERSON



**Dr. M. Vairamani,
Chairperson,
School of Bioengineering
SRM Institute of Science
&Technology**

I am happy that the Department of Genetic Engineering, School of Bioengineering, SRM Institute of Science and Technology has taken steps to bring out a newsletter, "The Geneticist" at a regular interval. 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. 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 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.

MESSAGE FROM HOD



**Dr. M. Ramya, HOD,
School of Bioengineering
SRM Institute of Science &
Technology**

We are pleased to share the second issue of e newsletter THE GENETICIST, 2022. 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.

I wish our readers the very best in all their endeavours!

EDITOR'S DESK

Dear Readers

We take immense pleasure in announcing the release of second issue of E-newsletter THE GENETICIST, 2022, that showcases the activities and achievements of our students and faculty in the last six months (January 2022- June 2022)

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

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

Happy Reading!

Dr. G. Ganesan and Dr. Sitaram Harihar
Department of Genetic Engineering
SRM IST

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

VISION

To emerge as a centre 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.

MISSION

- 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 research.
- 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 & 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.

List of Research Laboratories

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

NEW EQUIPMENT (2022)

Stereozoom Microscope (Weswox STM-80)



The Department has procured three simple stereo zoom microscopes. These microscopes will be extremely helpful for observing embryonic and larval stages of *Drosophila* and zebrafish development. These microscopes will also be helpful for dissecting imaginal discs from fly larvae

Inverted Tissue Culture Trinocular Microscope (Magnus)



The Department has procured one inverted brightfield phase contrast microscope. The microscope will be used for visualizing cells or organisms at the bottom of flasks or plates.

RESEARCH PUBLICATIONS (2022)

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

Total Paper	37
Corresponding author	11
Co-author	26
High IF	10.5
Average Impact Factor	3.8

1. Rajagopal, T., Seshachalam, A., Jothi, A., Rathnam, K. K., Talluri, S., **Venkatabalasubramanian, Sivaramakrishnan., & Dunna, N. R. (2022)** Analysis of pathogenic variants in BRCA1 and BRCA2 genes using next-generation sequencing in women with triple negative breast cancer from South India. *Molecular Biology Reports*. DOI: 10.1007/s11033-022-07129-2. IF: 2.316
2. Rajagopal, T., Seshachalam, A., Rathnam, K. K., Talluri, S., **Venkatabalasubramanian, Sivaramakrishnan., & Dunna, N. R. (2022)**. Homologous recombination DNA repair gene RAD51, XRCC2 & XRCC3 polymorphisms and breast cancer risk in South Indian women. *Plos One*, e0259761. DOI: 10.1371/journal.pone.0259761 IF: 3.24.

3. Ramesh Vinayagam, Yash Patnaik, P. Brijesh, Deepa Prabhu, Melisha Quadras, Shraddha Pai, **Manoj Kumar Narasimhan**, K. Kaviyarasu, Thivaharan Varadavenkatesan, Raja Selvaraj (2020). Superparamagnetic hematite spheroids synthesis, characterization, and catalytic activity, *Chemosphere*, 294(1), 133730. DOI: 10.1016/j.chemosphere.2022.133730. IF: 7.086
4. Rajagopal M, Senthilnathan R, Shetty S, **Devi A**, Ravishankar Ram M, Samiappan S, Jayaraj R (2022). Conceptual interpretation and clinical applicability of a systematic review and meta-analysis about prognostic value of apolipoproteins in COVID-19 patients. DOI: 10.1016/j.tmaid.2021.102248. IF: 6.211.
5. Ramachandran Balaji, Selvarasu Maheshwaran, Shen-MingChen, Elayappan Tamilalagan, Narendhar Chandrasekar, **Selvarajan Ethiraj**, Melvin S.Samuel (2022). Fabricating BiOI nanostructures armed catalytic strips for selective electrochemical and SERS detection of pesticide in polluted water, *Environmental Pollution*, 296 (1), 118754. DOI: 10.1016/j.envpol.2021.118754. IF: 8.071.
6. Gokul Sudhakaran, Pandurangan Prathap, Ajay Guru, Ravi Rajesh, Sruthy Sathish, **Thirumurthy Madhavan**, Mariadhas Valan Arasu, Naif Abdullah Al-Dhabi, Ki Choon Choi, Pushparathinam Gopinath, Jesu Arockiaraj (2022). Anti-inflammatory role demonstrated both in vitro and in vivo models using non-steroidal tetranortriterpenoid, Nimbin (N1) and its analogues (N2 and N3) that alleviate the domestication of alternative medicine, *Cell Biology International*. <https://doi.org/10.1002/cbin.11769>. IF: 3.612

7. P. Velusamy, C.H.Su, P. Ramasamy, V. Arun, **N. Rajnish**, S. Murugesan, R. Pachiappan, B. Vaseeharan, Senthil Kumar, Subash. C.B.Gopinath (2022) Volatile Organic Compounds as potential biomarkers for non invasive disease detection by nanosensors- a comprehensive review. *Critical Reviews in Analytical Chemistry*. DOI. <https://doi.org/10.1080/10408347.2022.2043145>. IF: 6.657.
8. R.Muneeswari, **S.Iyappan**, K.V. Swathi, R. Vinu, K. Ramani, G. Sekaran.(2022) Biocatalytic lipoprotein bioamphiphile induced treatment of recalcitrant hydrocarbons in petroleum refinery oil sludge through transposon technology. *Journal of Hazardous Materials*. DOI: 10.1016/j.jhazmat.2022.128520. IF:10.588.
9. Kalyani Bindu Karunakaran, Anand Thiagaraj and **Kirankumar Santhakumar** (2022).Novel insights on acetylcholinesterase inhibition by *Convolvulus pluricaulis*, scopolamine and their combination in zebrafish. *Natural Products and Bioprospecting*. DOI: 10.1007/s13659-022-00332-5. IF:4.9
10. Prajitha K Rajan, Nageswara Rao Dunna, and **Sivaramakrishnan Venkatabalasubramanian** (2022). A comprehensive overview on the anti-inflammatory, antitumor, and ferroptosis functions of bromelain: an emerging cysteine protease. *Expert opinion on Biological Therapy*. DOI: 10.1080/14712598.2022.2042250. IF: 4.388.
11. Alexander PinkySteffi, Ramachandran Balaji, Narendhar Chandrasekar, Natarajan Prakash, Thangavel Pichaiappa Rajesh, **Selvarajan Ethiraj**, Melvin S.Samuel, Srikanth Vuppala (2022), High-performance anti-corrosive coatings based on rGO-SiO₂-TiO₂ ternary heterojunction nanocomposites for superior protection for mild steel specimens. DOI: 10.1016/j.diamond.2022.108968 *Diamond and Related Materials*. IF:3.315

12. Selvarasu Maheshwaran, Vengudusamy Renganathan, Shen-MingChen, Ramachandran Balaji, C.R.Kao, Narendhar Chandrasekar, **Selvarajan Ethiraj**, Melvin S.Samuel, Muthusamy Govarthanan (2022), Hydrothermally constructed AgWO₄-rGO nanocomposites as an electrode enhancer for ultrasensitive electrochemical detection of hazardous herbicide crisquat,. *Chemosphere*. DOI: 10.1016/j.chemosphere.2022.134434. IF:7.086.
13. Hannah P Priyanka, **A Thiyagaraj**, G Krithika, RS Nair, W Hopper, S ThyagaRajan, (2022), 17 β -Estradiol Concentration and Direct β 2-Adrenoceptor Inhibition Determine Estrogen-Mediated Reversal of Adrenergic Immunosuppression, *Annals of Neurosciences*. DOI: 10.1177/09727531211070541. IF: 1.64.
14. Shruthi Chalil Sureshan , **Habeeb Shaik Mohideen** , **Mohandass Ramya (2022)**, Differential expression profiling of *Oxycaremus laetus* Kirby (Hemiptera: Lygaeidae) upon exposure to gossypol. *Molecular Biology Reports*. DOI: 10.1007/s11033-022-07322-3. IF: 2.316.
15. Melvin S. Samuel ,Madhumita Ravikumar,Ashwini John J, **Ethiraj Selvarajan**, Himanshu Patel, P. Sharath Chander, J. Soundarya, Srikanth Vuppala, Ramachandran Balaji, Narendhar Chandrasekar (2022) A Review on Green Synthesis of Nanoparticles and Their Diverse Biomedical and Environmental Applications, *Catalysts*, 12:5(459). DOI:10.3390/catal12050459. IF:4.146.
16. Sakshi Seth, **Pasuapathi Rathinasabapathi** (2022), A Short Review on Detection of Antibiotics in Milk Using Nanomaterial-Based Biosensor, *Food Analytical methods*,. DOI:10.1007/s12161-022-02291-6. IF:3.36.

17. Thilaga Thirugnanam, Sayooj Madhusoodanan **Kirankumar** (2022) Quercetin rescues MPP⁺ induced Parkinsonian-like locomotor impairment in zebrafish larvae, *Journal of Applied Biology & Biotechnology*, 10(3). DOI: 10.7324/JABB.2022.100314. IF:0.9
18. Sathya Babu, Santhosh Kumar Nagarajan, Sruthy Sathish, Vir Singh Negi, Honglae Sohn and **Thirumurthy Madhavan** (2022), Identification of Potent and Selective JAK1 Lead Compounds Through Ligand-Based Drug Design Approaches, *Frontiers in Pharmacology*. DOI: 10.3389/fphar.2022.837369. IF:5.5
19. Veena Ramesh, Seema A. Kulkarni, Palaniyandi Velusamy, Velmurugan Devadasan, Panneer Devaraju, Kandathil Narayanan Rajnish, **Thirumurthy Madhavan**, Periasamy Anbu, Palaniappan Ramasamy, Rajamanikandan Sundarraj (2022) Current Update of Phytotherapeutic Agents in the Treatment of COVID-19: In-Silico Based Virtual Screening Approach for the Development of Antiviral Drug, *frontiers in bioscience-landmark*. DOI: 10.31083/j.fbl2704123 IF:4.009.
20. Sivasankari R, **Usha B** (2022) Reshaping the Gut Microbiota Through Lifestyle Interventions in Women with PCOS: A Review, *Indian journal of microbiology*, 1-13. DOI: <https://doi.org/10.1007/s12088-022-01019-8> IF:2.46
21. Marena Tauger, April Hile, Krishnan Sreenivas, Eva Mei Shouse, Jishnu Bhatt, Tina Lai, **Ramya Mohandass**, Leena Tripathi, Aaron J Ogden, Wayne R Curtis(2022), CO₂ supplementation eliminates sugar-rich media requirement for plant propagation using a simple inexpensive temporary immersion photobioreactor, *Plant Cell, Tissue and Organ Culture (PCTOC)*. DOI: : <https://doi.org/10.1007/s11240-021-02210-3>. IF 2.711.

22. Saranya Chandrasekar, **Purushothaman Natarajan**, Priyank Hanuman Mhatre, Mahesh Mahajan, Sundararaj Nivitha, Venkatasalam E Palanisamy, Umesh K Reddy, Palanisamy Sundararaj(2022) RNA-Seq of Cyst Nematode Infestation of Potato (*Solanum tuberosum* L.): A Comparative Transcriptome Analysis of Resistant and Susceptible Cultivars, *Plants*, 11:8(1008), DOI: 10.3390/plants11081008. IF:3.935.
23. Ramesh vinayagam, Gaurav Sharma, Gokulakrishnan Murugesan, Shraddha Pai, Devansh Gupta, **Manojkumar Narasimhan**, K. Kaviyarasu, Thivaharan Varadavenkatesan, Raja Selvaraj (2022), Rapid Photocatalytic degradation of 2,4- Dichlorophenoxy acetic acid by ZnO nanoparticles Synthesized using the leaf extract of *Muntingia calabura* , *Journal of Molecular Structure*, 1263,1(133127). DOI: <https://doi.org/10.1016/j.molstruc.2022.133127>. IF:3.935.
24. Deepa Kale,Santhanam rekha, Sigamani vinoth, Ravi Ramalingam, **Madasamy Parani** (2022) .Case–Control Genotyping of the c.788C>T Variant of Transforming Growth Factor-Beta 1 Gene in Otosclerosis in the South Indian Population, *The Journal of International Advanced Otology*, DOI: 10.5152/iao.2022.21170. IF 1.017.
25. Vignesh Nagarajan, Jeevitha Chitra Madhesh, Manikandan Athilinga Perumal Perumal, **Megala Jayaraman**, (2020) Comparative proteomic analysis reveals novel biomarkers for gastric cancer in South Indian tamil population, *Combinatorial chemistry and high throughput screening*, DOI: 10.2174/1386207324666210603120320. IF: 1.339.
26. Seethalakshmi Sakthivel, **Habeeb Shaik Mohideen**, Saharuddin Bin Mohamad (2022) Identification and characterization of conserved miRNAs from *Gossypium hirsutum*, *Ecological Genetics and Genomics*. DOI: <https://doi.org/10.1016/j.egg.2022.100125>. IF:1.9

27. Gauresh G Shivji, Rajib Dhar, **Arikketh Devi** (2022), Role of exosomes and its emerging therapeutic applications in the pathophysiology of non-infectious diseases. *Biomarkers*, DOI: 10.1080/1354750X.2022.2067233 IF: 2.658.
28. Rethinavelu Gayathri, Vishwakarma Archana and **Mohandass Ramya** (2022) Molecular Diagnostic Methods for the Detection of Leptospirosis, *Journal of Pure and Applied Microbiology*. DOI <https://doi.org/10.22207/JPAM.16.2.24> IF:1.05
29. Calmly M. Koshy, Deva Asirvatham, Rikhia Majumdar and **Shobana Sugumar** (2022) In silico Structural and Functional Characterization of a Hypothetical Protein from *Stenotrophomonas maltophilia* SRM01, *Journal of Pure and Applied Microbiology*. DOI:<https://doi.org/10.1177/11779322211011140>. IF:1.05
30. Rajib Dhar, Saurav Mallik & **Arikketh Devi** (2022) Exosomal microRNAs (exoMIRs): micromolecules with macro impact in oral cancer, *3 Biotech*, DOI: 10.1007/s13205-022-03217-z IF: 2.893.
31. Lazer L, Kesavan Y, Gor R, Ramachandran I, Pathak S, Narayan S, Anbalagan M, and **Ramalingam S.**(2022), Targeting colon cancer stem cells using novel Doublecortin like kinase 1 antibody functionalized Folic acid conjugated hesperetin encapsulated chitosan nanoparticles. *Colloids Surf B Biointerfaces*. DOI: 10.1016/j.colsurfb.2022.112612 IF: 5.268
32. Krishnamoorthy Priya, Pasupathi Rathinasabapathi, Rex Arunraj, Dhanasekaran Sugapriya & **Mohandass Ramya** (2022) Development of multiplex HRM-based loop-mediated isothermal amplification method for specific and sensitive detection of *Treponema pallidum*. *Archives of Microbiology*. DOI: 10.1007/s00203-022-02973-z IF:2.5

33. Sridevi D.V., RameshVadivel, Suresh Perumal, Sundaravadivel E, **Sivaramakrishnan V** (2022) A facile synthesis of Mn-doped ZnSe nanoparticles for an enhanced photocatalytic activity and biological applications. *Ceramics International*, DOI: <https://doi.org/10.1016/j.ceramint.2022.06.050> IF: 4.2
34. Balaji R, **Parani M** (2022) DNA Barcoding of the Market Samples of Single-Drug Herbal Powders Reveals Adulteration with Taxonomically Unrelated Plant Species. *Diversity*, DOI: <https://doi.org/10.3390/d14060495> IF: 3.029
35. Seethalakshmi Sakthivel, **Habeeb Shaik Mohideen**, Chandrasekar Raman, and Saharuddin Bin Mohamad (2022) Potential Acetylcholinesterase Inhibitor Acting on the Pesticide Resistant and Susceptible Cotton Pests, *ACS Omega*, DOI: [10.1021/acsomega.1c07359](https://doi.org/10.1021/acsomega.1c07359) IF: 3.5.
36. MSA Tantry, VS Harini and **Kirankumar Santhakumar** (2022) Simple and high-throughput rheotaxis behavioral assay for zebrafish larva. *Zebrafish*, DOI: [10.1089/zeb.2021.0087](https://doi.org/10.1089/zeb.2021.0087) IF: 2.229
37. Havisha Dinesh and **Megala Jayaraman** (2022) Role of microRNAs in the progression and metastasis of gastric cancer, *Journal of Applied Biology and Biotechnology* DOI: [10.7324/JABB.2022.100401](https://doi.org/10.7324/JABB.2022.100401)

RESEARCH GRANTS AND FELLOWSHIP

Research and innovation are essential hallmarks for any educational institution. The Department of Genetic engineering has placed much emphasis on creating infrastructure and facilities for advanced research in diverse areas. Our department encourages the faculty to apply and receive grants from various funding agencies both India and abroad to achieve this goal. Several laboratories have been established with sophisticated instruments to facilitate research on par with international standards by the faculty, students, and research scholars. Apart from the external grant, SRM IST also has provided seed money under SRM selective excellence grant to select research proposals.

GRANTS AND FELLOWSHIPS-2022 EXTERNAL

Investigator	Title of the Project	Funding Agency	Amount (lakhs)
Dr. Kirankumar (Coordinator & PI) & Dr.Satish (PI)	Developing cancer models using CRISPR-Cas9 technique in zebrafish	DBT	94.42 (175.00)
Dr.Satish (PI) & Dr.N.Selvamurugan (Co-PI)	RNA Binding Protein Pumilio-1 In Colon Cancer Progression and Metastasis	DST SERB	53.00 (61.92)
Dr.Kirankumar (PI)	A zebrafish model for VHL and hypoxia signaling in tumorigenesis	DST SERB	39.16 (46.00)
Dr. M. Parani	EDII-I-I Innovation Voucher Programme	Entrepreneurship Development and Innovation Institute, Chennai - Micha Life Sciences	2.50
Dr.M.Ramya (PI) & Dr.Rathinasabapathi (Co PI)	Development of Point of care Apta-sensor for Early and Rapid Detection of Leptospirosis	ICMR	(17.5) 32.6
Dr.Sitaram Harihar (PI) & Dr.Kirankumar (CoPI)	A Proof-of-Principle Study for Metastasis Suppressor Gene Induced Tumor Dormancy in Triple-Negative Breast Cancer	ICMR	37.65
Dr. Habeeb SKM (PI)	Genomic profiling of Covid-19 variants, Virtual Screening and Molecular Dynamics Simulation of Known Therapeutic Peptides Against Covid-19 for Peptide Re-purposing	SATU 2022	
Dr.S.Shobana	Structure-based identification and optimization of selective JAK inhibitors as a potential candidates for treating alopecia	SATU 2022	

GRANTS AND FELLOWSHIPS (2022)- INTERNAL

SRM Selective Excellence Grant

Dr. P Senthilkumar	Identification of miRNAs expressed upon UV stress and its role on photosynthesis in <i>Oryza sativa</i> L	SRM Selective Excellence Grant	2.50 Lacs
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STUDENT GRANTS AND FELLOWSHIPS-2022

Fellowships

Ms. Lizha Mary (ICMR RA) Mentor (Dr. Satish) Fellowship	Targeting Cancer Stem Cells for Colon Cancer Treatment	ICMR	3.14
Mr. Ananthkrishna Tantry (Inspire Fellow) Mentor (Dr. Kirankumar)	Role of Tubb5 in Zebrafish Brain Development	DST INSPIRE	4.80

PATENT

Our department has various research facilities which makes faculty members to work on innovative projects and hold patent for their ideas.

Name of inventors: Samuel, Melvin S; Khandge, Rahul Sampat; Chandrasekar, Narendhar; Balaji, Ramachandran and **Selvarajan Ethiraj**

Title: “ Removal of environmental contaminants of emerging concern using metal-organic framework composite”,

Patent: Australian Patent.

Patent number: 2021103241; Granted on: 27/04/2022



**CERTIFICATE OF GRANT
INNOVATION PATENT**

Patent number: 2021103241

The Commissioner of Patents has granted the above patent on 27 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):
Melvin S. Samuel of School of Environmental Science and Engg, Indian Institute of Technology Kharagpur West Bengal 721302 India
Rahul Sampat Khandge of Department of Chemical Engineering, University of Mumbai Maharashtra India
Narendhar Chandrasekar of Department of Nanoscience and Technology, Sri Ramakrishna Engineering College Coimbatore Tamil Nadu India
Ramachandran Balaji of Department of Chemical Engg. & Biotech., National Taipei University of Technology Taipei (ROC) 106 Taiwan
Ethiraj Selvarajan of Department of Genetic Engineering, College of Engineering and Technology, SRM Institute of Science and Technology Kattankulathur Chennai Tamil Nadu 603203 India

Title of invention:
Removal of environmental contaminants of emerging concern using metal-organic framework composite

Name of inventor(s):
Samuel, Melvin S.; Khandge, Rahul Sampat; Chandrasekar, Narendhar; Balaji, Ramachandran and Selvarajan, Ethiraj

Term of Patent:
Eight years from 9 June 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 27th day of April 2022
Commissioner of Patents



PATENTS ACT 1990
The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

DOCTORATE DEGREES AWARDED

Department of Genetic Engineering offers doctoral research programme leading to the award of Ph.D. degree and aims at developing individuals into distinguished researchers and entrepreneurs. The department strongly focus on promoting inter-disciplinary research and motivating PhD scholars in various fields. In 2022, two research scholars have been awarded doctorate from the Department of Genetic Engineering.

S.NO	Ph.D STUDENTS GRADUATED
1.	<p>Name of the Student: Adil Lateef</p> <p>Research supervisor: Dr. N. Purushothaman</p> <p>Title of the thesis: Transcriptomic and metabolomic analysis to characterize the pathways of medicinal importance from <i>solanum trilobatum</i> L.</p> <p>Date of PhD viva: 10:01:2022</p>
2.	<p>Name of the Student: Ms. Shruthi Sureshan</p> <p>Research supervisor: Dr. S. K. M. Habeeb</p> <p>Title of the thesis: A Transcriptomics and Amplicon-Based Metagenomics Approach to Study the Effect of Gossypol on the Gene Expression Profile and Gut Microbiota of <i>Oxycarenus laetus</i> (Hemiptera: Lygaeidae).</p> <p>Date of PhD viva: 02:03:2022</p>

S.NO	PRE-Ph.D TALK
1.	<p>Name of the Student: Selvaraj M</p> <p>Research supervisor: Dr. S. Kirankumar</p> <p>Title: Development of Strategies for Enhanced CRISPR-CAS9 Targeted Mutagenesis in Zebrafish</p> <p>Date of pre-PhD : 14.03.2022</p>
2.	<p>Name of the Student: Sravya G</p> <p>Research supervisor: Dr. A. Swapna Geetanjali</p> <p>Title: Molecular characterization of Begomovirus occurring in chilli and its associated weeds.</p> <p>Date of pre-PhD : 27.06.202</p>

STUDENTS SCHOLARSHIP / FELLOWSHIP

In 2022, **thirteen** students from the Department of Genetic Engineering received Scholarship/Fellowship.

GATE Scholars:

Sl. No	Name of the Scholar
1	Gor Ravi Manishkumar
2	Prasanna Vengatesh
3	Shinde Nikhil Dhanaji
4	Saranya.E
5	Yogesani. M
6	Amirtha Varshini.M
7	Anusha. M
8	Ganaprakash. J
9	Safana Farveen
10	Kumaran K

DST Inspire fellowship:

Sl. No	Name of the Scholar
1	AnanthaKrishna Tantry. M S

AICTE Fellowship:

Sl. No	Name of the Scholar
1	AnanthaKrishna Tantry M S
2	Gunjankumari Patel
3	Aakash A

CONSULTANCY

The Department of Genetic Engineering was established in the year 2006 at SRM Institute of Science and Technology (SRM IST) with the objective of providing excellence in research facilities in frontier areas of genetic engineering. The centre houses state-of-the-art infrastructure that caters to the needs of UG, PG, and Ph.D students. The faculty of the department are specialized in various areas of cutting-edge research both basic and applied also carries out fundamental and cutting-edge translational research to benefit the society. The below mentioned lab infrastructure is currently available at the Department of Genetic Engineering and caters to the needs of UG, PG and Ph.D. students.

Laboratories

Genetic Engineering Lab

Molecular Genetics Lab

Genomics Lab

Stem Cell Biology Lab

Genome Analysis Lab

Bioseparation Lab

Genetics Lab

Common Research Facility

The Department of Genetic Engineering also promotes research and consultancy services in the areas of human genetics, animal sciences, plant sciences and microbial sciences.

Category 1 and Category 2 consultancy:

1. Dr. V. Sivaramakrishnan has generated Rs 295/- towards the services offered for the usage of the Fluorescence Microscope.
2. Dr. N. Manoj Kumar has generated Rs. 2600/- towards the services offered for the usage of Lyophilizer
3. Dr. B. Usha has generated Rs. 5000/- towards the services offered for completion of a consultancy project with Bioanaltek Pvt Ltd, located at Bangalore Bioinnovation Center, IBAB Campus, Bengaluru, Karnataka.
4. Dr. Raja Natesan has generated Rs. 3717/- towards the services offered for the usage of Fluorescence Spectrometer.
5. Dr. Devi has generated Rs. 590/- towards the services offered for the usage of Fluorescence Microscope.

A total revenue of Rs. 12,202 was generated by the Department of Genetic Engineering, SRM IST for the period from January to June 2022 through consultancy.

CONFERENCES & WORKSHOPS PARTICIPATIONS

Department of Genetic Engineering promotes students and faculties to attend conferences and workshop to update their knowledge in R&D. In 2022, M.Tech students and Research Scholars have participated in several conference and workshops conducted by different institution.

Conference/workshop attended by PhD scholars

Student Name	Registration #	Conference attended	Organizing institute	Date	Presentation title
Krishnaveni S	RA1913010011012	41st IACR International Cancer Conference	Amity University	3/5/2022	Interactome analysis reveals potential mechanisms of ITIH5-mediated metastasis suppression in pancreatic ductal adenocarcinoma
Sreeshma B	RA1813010011014	41st IACR International Cancer Conference: An International Symposium on: Cancer & Stem Cells	Amity University	3/4/2022	Comprehending the role of Jumonji AT Rich Interacting Domain2 in Oral Squamous Cell Carcinoma
Jayanti P	RA1813010011006	VIROCON 2021	All India Institute of Medical Sciences, Bibinagar	3/26/2022	Screening of multiple begomoviruses causing Chilli leaf curl disease in ten major chilli growing areas of Tamil Nadu

CONFERENCES & WORKSHOPS PARTICIPATIONS

Conference/workshop attended by M. Tech students

Student Name	Registration #	Conference attended	Organizing institute	Date
Bhaswan Indu Jana	RA211202401000 2	Virtual Symposium on Stem Cell Research And Regenerative Medicine		03/02/2022
P. Devadharshini	RA211202401000 9	Medical Coding: Application and job prospects in the global market	Amity Institute of Biotechnology, Amity University Rajasthan	02/22/2022
E. Rajalakshmi	RA211202401002 4	Hands on training on NGS Data Analysis	TNAU, Coimbatore	21/02/2022-25/02/2022
. J. L. Evangeline	RA211202401002 5	Hands on training on NGS Data Analysis	TNAU, Coimbatore	21/02/2022-25/02/2022
Prayukta Jitendra Padelkar	RA211202401001 3	Training & Internship Program in "Advanced Proteomics"	Association With Antaragniin Kanpur	03/31/2022

PROFESSIONAL MEMBERSHIPS

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

S.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)	
3.	Thirumurthy M		
4.	Raja N S		
5.	Anand T		
6.	Rajnish N		
7.	Satish		
8.	Rex Arunraj	Society of Plant Biochemistry and Biotechnology	
9.	Aruljothi N	European Association for Cancer Research	
10.	Raja N S	Indian Association of Cancer Research	
11.	Rathinasabapathi	The Institution of Engineers (India) - life time member	
12.	Manoj Kumar	Tamilnadu Pharmacy Council (India)	
13.	Rathinasabapathi	The Indian society of human genetics - Life time member	
14.	Sitaram Harihar	Indian Association of Cancer Research	
15.	Anand T	International Association of engineers and computer scientist	
16.	Swapna Geetanjali A	Indian Phytopathological Society	
17.	Usha B	The PCOS Society	
18.	Devi.A	The Indian Society of Human Genetics	
19.	Selvarajan E	Indian Society for Technical Education	
20.	Selvarajan E	The Biotech Research Society of India	
21.	Iyappan	The Indian Society of Human Genetics	

22.	M. Parani	Society for Plant Biochemistry and Biotechnology (Life Member, No. L397)	Life Member
23.		Society of Biological Chemists (India)	
24.		Indian Society for DNA Fingerprinting & other DNA Technologies (Life Member, L364)	
25.		Indian Society of Human Genetics (Life Member, No. L/1634/2012)	
26.		Indian Science Congress Association (Life Member, No. L31142)	
27.		M. Ramya	
28.	Indian Science Congress Association (Life Member, No. L31142)		
29.	Anand T	Indian Science Congress Association	Annual Member
30.	Aruljothi N		
31.	Devi A		
32.	Ganesan G		
33.	Habeeb SKM		
34.	Iyappan S		
35.	Kirankumar S		
36.	Manojkumar N		
37.	Megala J		
38.	Purushothaman N		
39.	Raja N S		
40.	Rajnish KN		
41.	Rathinasabapathi P		
42.	Rexarunraj D		
43.	Satish R		
44.	Selvarajan.E		
45.	Senthilkumar P		
46.	Shobana S		
47.	Sitaram Harihar		
48.	Sivaramakrishnan V		
49.	Swapna Geetanjali A		
50.	Thirumurthy M		
51.	Usha B		

SEMESTER ABROAD PROGRAM (SAP)

Semester Abroad Program (SAP) is one such program where SRMIST is recognized across the globe by providing its student's a 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, M.Tech students and Research Scholar were allowed to take-up a few courses/ a Major project in reputed foreign universities for ONE/TWO semester(s) with stipend.

SAPIANS 2022



Kansas State University, USA

Akilan R (M.Tech) - Kansas State University, USA (18,000 USD/Year)



Purdue University, USA

Archit Gupta (M.Tech) -Purdue University, USA

B.Tech, M.Tech students and Research Scholar were allowed to take-up a few courses/ a Major project in reputed foreign universities for ONE/TWO semester(s) with stipend.

SAPIANS 2022



Harvard Medical School, USA

Kevina S (M.Tech) - Harvard Medical School



Harvard Medical School, USA

Abna A (M. Tech)- Harvard Medical School

AWARDS/HONORS/RECOGNITION

- Mr. Archit Gupta (RA2012024010002) working under the guidance of Dr. S. K. M. Habeeb won first prize for “Identification Of Mirna-Lncrna-Mrna Inter-Relationship In Human Lung Adenocarcinoma” at the SRM Bioconclave - International Edition 2022
- Mrs. Krishnaveni (RA1913010011012) research scholar working under the guidance of Dr. Sitaram, won second prize for “Interactome analysis reveals potential mechanisms of ITIH5-mediated metastasis suppression in pancreatic ductal adenocarcinoma” at the SRM Bioconclave - International Edition 2022
- Dr. R. Satish was appointed as the BOS member for the Department of Pharmacology, University of Madras on 4.02.2022)
- Dr. Habeeb. SKM was appointed as the BOS member for the Department of Biochemistry, D. G. Vaishanava College, Chennai on 30-05-2022
- Dr.Rex Arunraj worked as consultant for Advanced Institute For Wildlife Conservation at Vandalur, Chennai
- Dr. Usha B worked as consultant for Bioanaltek Bangalore, Karnataka, India for a Consultancy Project

WORKSHOP/FDP/ONLINE COURSE ATTENDED BY THE FACULTY MEMBERS

- .Dr. R. Satish, Dr. Sitaram Harihar, Dr. E. Selvarajan, and Dr. G. Ganesan attended a Faculty Refresher and Assimilation Programme-SRM Institute of Science and Technology
- Dr.J.Megala completed an online course on “Anatomy: Cardiovascular, Respiratory and Urinary Systems”, conducted by University of Michigan (4 weeks), COURSERA
- Dr. Rex Arunraj, attended a workshop on “Hands on training on NGS analysis” conducted by TNAU, Coimbatore (Feb 21-25, 2022)
- Dr. B. Usha, attended a workshop on “Hands on training on NGS analysis” conducted by TNAU, Coimbatore (Feb 21-25, 2022)
- Dr. Devi Completed a eight week online course “Nanotechnology: A Maker’s Course” from Coursera, offered by Duke University, North Carolina State University.
- Dr.M.Thirumurthy attended a six day FDP on Machine Learning for all, in offline mode conducted at SRM IST, from 5/16/2022.
- Dr. Rathinasabapathi, Dr. Sivaramakrishnan, and Dr. T Anand attended a professional development program on Virtual Reality Development using Vizard in offline mode at SRMIST from from 23.04.2022 to 09.05.2022
- Dr. E. Selvarajan attended a 10 day analytics course conducted by Turnip Innovation Pvt. Ltd (7.06.2022-16.06.2022)
- Prof. Parani, Dr. A. Devi, Dr. S. Kirankumar, Dr. J. Megala, Dr. B.Usha attended a FDP on “Holistic Development and Outcome Based Education in the light of NEP-2020” conducted by University of Engineering and Management, Jaipur (13.06.22-19.06.2022)

EVENTS ORGANIZED BY THE FACULTY MEMBERS

- SRM Bioconclave - International Edition 2022 an online international conference was organized from 19/01/2022 to 21/01/2022 by Dr. N. S Raja as the convenor and Dr. S. K. M. Habeeb., Dr. V. Sivaramar Krishnan, D. T. Anand and Dr. E. Selvarajan partnering with Biological Research Society of India. The event was attended by faculty, students from SRMIST and other Institutes across India.

SRM BIOCONCLAVE International Edition 2022

Socializing biological innovations

SRM Bioconclave-International Edition 2022 invites papers

Full Papers / Abstracts: Submissions are invited for the SRM Bioconclave International Edition 2022, SRM IST, India, on 19th - 21th January 2022 through online mode. It is an exceptional platform for researchers, academics, students, innovators, scientists, and industry practitioners to discuss current research shaping a new world society. This conference will be an excellent platform to share research and innovations where constructive feedback and engagement with domain experts are expected. Many topics of the multi-disciplinary nature related to translating the advancement of biological innovations to societal benefits are to be discussed in the Conclave. We encourage submissions of cross-disciplinary nature cutting across many disciplines/subject areas. We encourage submissions that present novel ideas, works-in-progress, or any concepts that you think can benefit from experts' input. Students and emerging researchers are encouraged to participate.

Selected extended papers will be published in Scopus Indexed Journals.

Deadline to submit abstracts: 10 Jan 2022

Please visit: <https://www.srmist.edu.in/sbie-2022/>

Mail to: sbie2022@srmist.edu.in

We invite papers on the following themes

Genetics, Genomics, and Informatics

Cancer biology

Microbial engineering for pharmaceutical, biofuel, and industrial applications

Bio-nanotechnology and Bioprocessing

Plant genetic engineering and tissue culture techniques

Extracellular vesicles, cell biology, and theranostic studies

SRM BIOCONCLAVE International Edition 2022

FDP and Workshops

Register at the following link for all the events

<https://bit.ly/3Ec909j>

FDP on Advance Biological Techniques (Only of Faculty) Registration

Fee: 4000 INR (3000 INR for FDP + 1000 for Conclave)

This FDP aims to equip the Lifesciences faculty with advanced techniques employed in biological research. Participants will be provided with hands-on experience in the following areas; Molecular biology, Downstream processing, Animal cell culture, Metagenomics, and System biology.

For details, please visit: <http://surl.li/basmj>

Workshops (Open to all participants of the conference)

Workshop on Zebrafish Model System: Biology and Genetics (Offline/ Hands-on)

Hands-on training for developing zebrafish as a model system for various disease models and biological research

Handling faculty: Dr. Kirankumar S

Registration Fee: 250 + Conclave Registration fee*

Please visit the following link for further info: <http://surl.li/basmm>

Workshop on Downstream processing (Offline/ Hands-on)

Hands-on training for isolation, purification, and characterization of proteins

Handling faculty: Dr. Rajnish KN and Dr. Manojkumar N.

Registration Fee: 250 + Conclave Registration fee*

<http://surl.li/basmr>

Workshop on Cancer Biology (Offline/ Hands-on)

Hands-on training for Culturing, maintaining cells, and using these cells for cancer biology research

Handling faculty: Dr. Satish R

Registration Fee: 500 + Conclave Registration fee*

Molecular docking for Online drug discovery techniques (Online Mode)

Handling faculty: Dr. Thirumurthy M

Registration Fee: 250 + Conclave Registration fee*

Workshop on Transcriptomic Analysis (Online Mode)sdas

Handling faculty: Dr. Iyappan S.

Registration Fee: 250 + Conclave Registration fee*

*Registration fee: Conclave registration fee applicable to the different categories such as Student, Ph.D., Faculty, and Industry participants.

Offline Mode: The workshop will be conducted at SRMIST. Participants have to make their own arrangements for their accommodation

Online Mode: The participants must have an internet connection and laptop to attend the

EVENTS ORGANIZED BY THE FACULTY MEMBERS

- Dr.P.Senthilkumar organized Online Alumni Talk of Mr.V.Sudarshan (RA1411014010088, 2014-2018), Co-founder and CEO, Biota Learning, Chennai on 14.02.2022 on “Starting a Startup”

Department of Genetic Engineering, SRMIST & SRMIIC

Organizes an Orientation session by an entrepreneur

“Starting a Startup”



Mr. Sudharsan V
Co-Founder, & CEO
Biota Learning Pvt Ltd
Chennai, Tamilnadu

Date: 14.02.2022 **Time: 11.00 am**

Join the session through Google Meet:
<https://meet.google.com/pfd-cynx-qiy>

All students and staff are requested to join the session

- Dr. Satish Ramalingam organized an invited lecture titled “Stem Cells for Regenerative Therapy” by Dr. Rajasingh Johnson, Associate Professor, College of Dentistry and Department of Bioscience Research, The University of Tennessee Health Science Center, Memphis, TN, USA on 21.04.2022.

 **SRM** **Department of Genetic Engineering**
INSTITUTE OF SCIENCE & TECHNOLOGY
Department of the University of Education, India

Special Invited Talk

Dr. Rajasingh Johnson
Associate Professor
College of Dentistry
Department of Bioscience Research
The University of Tennessee Health Science Center
Memphis, Tennessee 38163
United States of America



“Stem cells for Regenerative Therapy”

Date: 21.04.2022
Time: 6:00 PM (Online via Zoom)
Register at: <https://forms.gle/GUDYwFpNEuzZFtDyS>
E-certificate will be provided

Convener: Dr. Satish Ramalingam
Assistant Professor
Department of Genetic Engineering
SRMIST

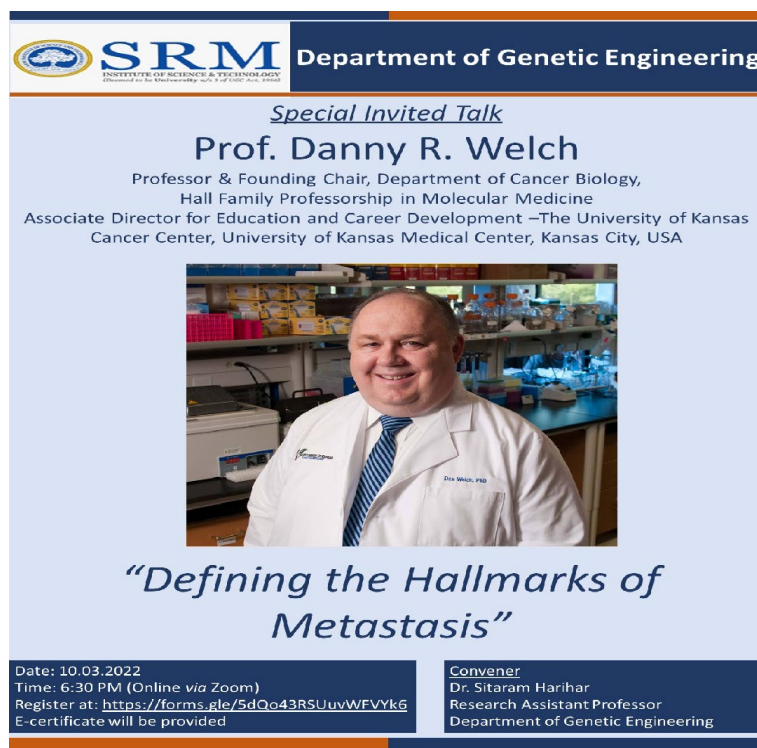
EVENTS ORGANIZED BY THE FACULTY MEMBERS

- Dr.Devi.A organized a ONE day Research Symposium on “Stem Cells Research and Regenerative Medicine” on 23.02.22



The poster features a background of pink and purple stem cells. At the top left is the SRM Institute of Science & Technology logo. The main title is "Virtual Symposium on Stem Cell Research & Regenerative Medicine" with the date "23rd February, 2022". Below this, it states "Organized by Stem Cell and Cancer Biology (SCCB) Laboratory, Department of Genetic Engineering, SRM Institute of Science and Technology, Kattankulathur -603 203". A "Speakers" section lists three individuals with their photos and titles: Dr. Indumathi Mariappan (Research Scientist, Center for Ocular Regeneration, I.V Prasad Eye Institute, Hyderabad), Dr. Tina Mukherjee (Associate Investigator, Institute for Stem Cell Science and Regenerative Medicine, Bangalore), and Dr. Sudha Warriar (Additional Professor, Manipal Institute of Regenerative Medicine, Bangalore).

- Dr. Sitaram Harihar organized an invited lecture titled “Defining the Hallmarks of Metastasis” by Prof. Danny R. Welch, Professor & Founding Chair, Department of Cancer Biology, Hall Family, University of Kansas Medical Center, Kansas city, USA on 10.03.2022.



The poster has a blue and white color scheme. At the top left is the SRM Institute of Science & Technology logo. The text reads "Department of Genetic Engineering" and "Special Invited Talk" by "Prof. Danny R. Welch". His credentials are listed: "Professor & Founding Chair, Department of Cancer Biology, Hall Family Professorship in Molecular Medicine, Associate Director for Education and Career Development –The University of Kansas Cancer Center, University of Kansas Medical Center, Kansas City, USA". A photograph of Prof. Danny R. Welch in a white lab coat is shown. The title of the talk is “Defining the Hallmarks of Metastasis”. At the bottom, it provides the date (10.03.2022), time (6:30 PM Online via Zoom), registration link (<https://forms.gle/5dQo43RSUuwWfVYk6>), and notes that an E-certificate will be provided. The convener is Dr. Sitaram Harihar, Research Assistant Professor, Department of Genetic Engineering.

EVENTS ORGANIZED BY THE FACULTY MEMBERS

- Prof.M. Parani conducted a workshop on “DNA barcoding of plants” from 20.4.2022 to 22.4.2022.

SRM
SRM Institute of Science and Technology

**WORKSHOP ON
DNA BARCODING OF PLANTS
20 - 22 April, 2022**
Department of Genetic Engineering, SRM IST



DNA barcoding facilitates fast and reliable taxonomic identification of organisms using short DNA sequences. It has become popular in academic research to address societal issues such as resolve taxonomic conflicts, biodiversity, environment monitoring, herbal product authentication and quality control. This three day workshop will provide a practical overview of the conceptual and analytical aspects of DNA barcoding of plants. This workshop is primarily aimed at training students and researchers with interest in plant identification through molecular based identification of plant species through DNA sequencing approach.

Following topics will be covered;

- Molecular techniques (DNA isolation, PCR, Electrophoresis, preparation of PCR product for Sanger's sequencing) for generating DNA barcodes
- DNA barcoding informatics (assessing sequence quality, estimating molecular authentication & identifying unknown sequences against reference databases)

WHO CAN PARTICIPATE B.Sc / B.Tech / M.Sc / M.Tech / PhD students and Faculty members of Universities / Colleges and Research Institutes. The number of participants will be limited to TWENTY ONLY.	REGISTRATION FEES For all Rs. 500/- Mode of payment: Online Transfer (Note: First 20 seats only)
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HOW TO APPLY
Apply through Google form (<https://bit.ly/31ar90>) along with payment details.
Account Name: **Genetic Engineering Association**; Account Number: 117001000403689,
Bank Name: **City Union Bank, Tambaram**; IFSC Code: **CIUB0000117**

TRAVEL, FOOD & ACCOMMODATION
Travelling allowance, Food and Accommodation will not be provided by the organizers. Participants have to make their own arrangements. Refreshments will be provided for the participants during the programme.
Welcome kit, workshop manual, participation certificate will be provided.

Contact
Organizer : Dr. M. Parani, Professor
For registration and other query, contact to R. Balaji, PhD Research Scholar
Email: br3043@srmist.edu.in, Mobile: +91 9865384408



STUDENT COUNSELLING CELL

- The department opened a student counselling cell to help deal with student distress and concerns. The counselling cell includes, **Dr. Satish Ramalingam**, **Dr. Swapna Geetanjali** and **Dr. N. Aruljothi**. One of the first programs organized by the cell was an invited talk on “**emotional resilience**” by **Dr. U Vijayabanu**, Assistant Professor and Head, Department of Psychology, Bhaktavasalam Memorial College for Women, Chennai.



SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

Department of Genetic Engineering

Special Invited Talk
Organized by “Student Counselling Cell”

Dr. U. Vijayabanu, Ph. D.

Assistant Professor and HoD
Department of Psychology
Bhaktavasalam Memorial College for Women
Chennai





“Emotional Resilience”

Date: 30.05.2022
Time: 10:30 AM
Venue: Dr. G. N. Ramachandran Hall

Convener: Dr. Satish Ramalingam
Organized by the Department Student
Counselling Cell (Dr. S. Shobana, Dr. A.
Swapna Geetanjali , Dr. N. Aruljothi)
Assistant Professor
Department of Genetic Engineering
SRMIST


EVENTS ORGANIZED BY THE FACULTY MEMBERS

- Industry Institute Conclave which enables the interaction between scholars and industrial experts was organized by Dr.Rathinasabapathi and Dr. T. Kumar and Dr.Mahesh, Senior Lead Scientist, Cavinkare Pvt. Ltd., delivered an Online lecture on 4.2.22.




DEPARTMENT OF GENETIC ENGINEERING
&
DIRECTORATE OF ALUMNI AFFAIRS
PRESENTS




**INDUSTRY- INSTITUTE CONNECT SERIES
INDUSTRY- INSTITUTE CONCLAVE**



Dr. T.Kumar
SeniorLead Scientist - Head Measurement,
CavinKare Research center, Chennai



Dr. Mahesh
Senior Lead Scientist - Microbiology,
CavinKare Research center, Chennai

 4 February 2022
 10:30 AM
 t.ly/6N5Y

Organized by:
Dr. M Ramya
HOD, Genetic Engg.
Dr. Rathinasababathi P,
Asst. Prof. Dept. of Genetic Engg.
Dr. A. Rathinam,
Director, Alumni Affairs

- Dr.J.Megala organized a One day online workshop on “Molecular diagnosis of Fastidious Bacterial infection by Real Time PCR” on 18.2.22.



ONLINE WORKSHOP
SRM Institute of Science and Technology (SRMIST) Chennai 603 203

MOLECULAR DIAGNOSIS OF FASTIDIOUS BACTERIAL INFECTION BY REAL TIME PCR

February 18, 2022 @ 10 am

About
Quantitative analysis and detection of Lower Respiratory Tract Infection (LRTI) using real time PCR technique

- Introduction to LRTI
- Clinical significance of real time PCR
- Primer designing
- Real time PCR results and interpretation

Invited speakers

Dr. D. Prabu
Senior Assistant Professor,
Department of Microbiology,
Dr.ALM PG IBMS,
University of Madras,
Taramani campus
Chennai-113

Ms.Nimmagadda Nikitha
Experimental Hematology Researcher
Therapeutic Genome Editing Group
Weiss Lab
Hematology Department
St.JudeChildren'sResearch Hospital
Memphis,TN ,US

Who can Join?

- Undergraduates
- Postgraduates
- Research scholars
- Faculties from biotechnology and other allied sciences

e-Certificates will be issued to the participants

How to join?

Register on this link
or
scan QR code



<https://bit.ly/35e5geN>

Registration fee Rs.200/-

CONVENOR
Dr. J. Megala
Associate professor
Dept. of Genetic Engineering, SRMIST

Contact details
Sree Kathyayami S
Research Scholar
Dept. of Genetic Engineering, SRMIST
8754485321

EVENTS ORGANIZED BY THE FACULTY MEMBERS

- Dr. Aruljothi organized a special invited talk on “Cancer Immunobiology and proteoglycans:Therapeutic implications” by Dr. Karthikeyan Subbarayan, Research Scientist, Martin Luther University, Halle Wuttenburg, Germany in an offline mode on 5th May 2022.



DEPARTMENT OF GENETIC ENGINEERING
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
ORGANIZES AN INVITED TALK BY

Dr. Karthikeyan S
on
“Cancer immunobiology and proteoglycans: therapeutic implications”



Research scientist
(DAAD Fellow)
Institute of Medical Immunology
Martin-Luther-University Halle-
Wittenberg, Germany

Venue
Prof. GN Ramachandran hall
Bioengineering block

Date & Time
18 May 2022 @ 11.00 am

CONVENORS
Dr. Karar Singh, Director IR
Prof. M. Vairamani, Chairperson, SBE
Prof. M. Ramya, HoD, Genetic Engineering
Coordinator:
Dr. KN ArulJothi
Assistant Professor
Genetic Engineering

FOLLOW COVID SAFETY MEASURES
REFRESHMENTS WILL BE SERVED

- Dr. NS Raja organized a special invited talk on “Being Entrepreneurial” by Dr. Prabhakar Kulkarni, CEO, NeoDx Biotech Labs Pvt. in online mode on 30th May 2022



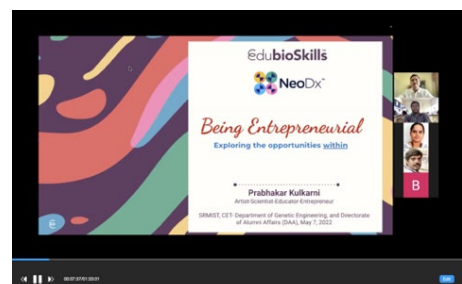
SRM
DEPARTMENT OF GENETIC ENGINEERING
&
DIRECTORATE OF ALUMNI AFFAIRS
PRESENTS
INDUSTRY · INSTITUTE CONNECT INVITED TALK



Prabhakar Kulkarni Ph.D.
Title: Being Entrepreneurial
Chief Executive Officer (CEO), NeoDx Biotech Labs Pvt. at
NeoDx Bengaluru, Karnataka, India

Date: 7th May
Time: 11 AM
Join us through the following link:
<https://zoom.us/j/92265282814?pwd=VWVvYUJlRWpDdz09>

Organized by:
Dr. M Ramya
Professor and Head
Dr. Raja N S
Associate Professor
Department of Genetic Engineering,
Dr. A. Rathnam,
Director, Alumni Affairs



EVENTS ORGANIZED BY THE FACULTY MEMBERS

- Dr. B. Usha (Alumni Coordinator) organized a felicitation program “Alumni achiever's connect” on 09.03.2022 to felicitate the following Alumnae who are achievers in their own field.

SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
Department of Genetic Engineering

INSTITUTION'S INNOVATION COUNCIL
University of SRM Institute of Science & Technology

ALUMNI ACHIEVERS CONNECT

Department of Genetic Engineering takes pride in felicitating our alumna who are achievers in their own field on account of Women's Day celebrations

MARCH 9
11 AM - 12 PM

<https://zoom.us/j/97568220936?pwd=YjRhV2grRjBmR0Z0WWdobkwxTmZkZz09>

Meeting ID: 975 6822 0936
Passcode: 292043

Dr. ADVAITHA MADIREDDY
Assistant Professor
Rutgers Cancer Institute,
New Jersey, USA
(Batch: B.Tech. 2004-2008)

Dr. JANANI DAKSHINAMOORTHY
Founder and Geneticist,
GeneAura Pvt. Ltd., Chennai
(Batch: M.Tech & Ph.D. 2014-2021)

Ms. RUPAROSHNI
M.S. in Molecular Sciences
University of Heidelberg, Germany
(Batch: B.Tech. 2015-2019)

REGISTRAR, SRMIST, WILL PRESIDE OVER THE FUNCTION
CHAIR, SCHOOL OF BIOENGINEERING WILL FELICITATE THE ALUMNAE

ORGANIZERS

DR. A. RATHINAM,
DIRECTOR, ALUMNI AFFAIRS
DR. M. RAMYA,
HEAD, DEPT. OF GENETIC ENGINEERING
DR. B. USHA,
ALUMNI COORDINATOR, GENETIC ENGINEERING

<http://www.srmgenetics.info/>
SRM Genetic Engineering
Genetic Engineering SRMIST
SRM Genetic Engineering



Achievers

Dr. ADVAITHA MADIREDDY

Assistant Professor Rutgers Cancer Institute, New Jersey, USA (Batch: B.Tech. 2008)

Dr. JANANI DAKSHINAMOORTHY



Founder and Geneticist, GeneAura Pvt. Ltd., Chennai , (Batch: M.Tech & Ph.D. 2021)

Ms. RUPAROSHNI


M.S. in Molecular Sciences University of Heidelberg, Germany (Batch: B.Tech.2019)

EVENTS ORGANIZED BY THE FACULTY MEMBERS


- Prof. M. Parani organized “Alumni conclave” on 21.04.2022 to felicitate the following Alumnae who are achievers in their own field.




DEPARTMENT OF GENETIC ENGINEERING
AND
DIRECTORATE OF ALUMNI AFFAIRS
ORGANISES
Alumni Conclave
HIGHER EDUCATION OPPORTUNITIES IN INDIA AND ABROAD



Nikilesh Vijayan
PhD @ IISER Thiruvananthapuram
B.Tech Genetic Engineering
2017






Pavithra Suresh
PhD @ Tzu Chi University, Taiwan
B.Tech Genetic Engineering
2015

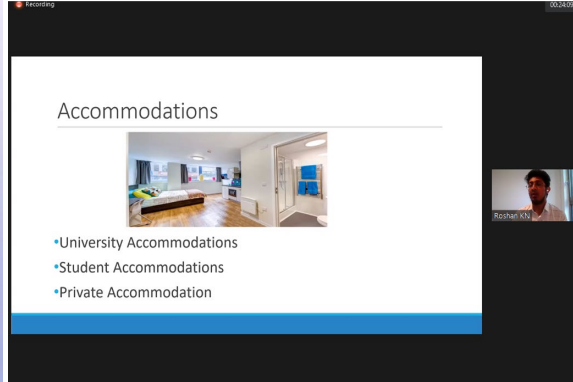
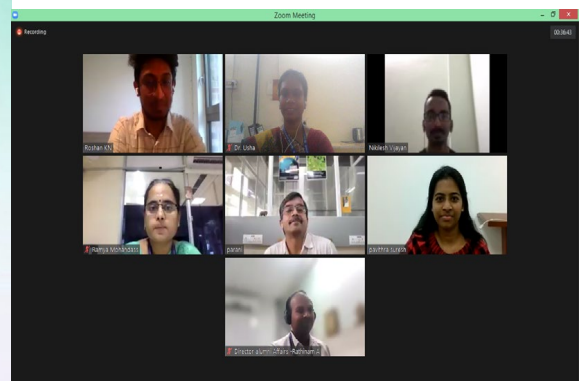


Roshan K.N
Graduate @ Univ.Glasgow,Scotland
B.Tech Genetic Engineering
2021


Organising Committee:

Dr.M.RAMYA HOD Genetic Engineering	Dr.A.RATHINAM Director, Directorate of Alumni Affairs	Meeting link: http://surl.li/btine Meeting Id.:987 7259 1073 Passcode: 316217
Dr.B.USHA Alumni Coordinator Dept.Genetic Engineering	Dr.M.PARANI Professor Dept.Genetic Engineering	10:30 AM Apr 21, 2022

 SRM ALUMNI  srmuaa  SRM ALUMNI



Accommodations



- University Accommodations
- Student Accommodations
- Private Accommodation

Speakers

NIKILESH VIJAYAN, Ph.D. @ IISER, Thiruvananthapuram. (Batch: B. Tech 2017)

PAVITHRA SURESH, PhD @ Tzu Chi University, Taiwan. (Batch: B. Tech 2015)

ROSHAN K. N. Graduate @ Univ. Glasgow, Scotland. (Batch: B. Tech 2021)

EVENTS ORGANIZED BY THE FACULTY MEMBERS

- Dr. S.Shobana organized an Online Lecture - Lecture was delivered by Dr.Sathyadevi Venkataramani, Director, Amgen, California on “Quest for Quality Medicine: Developing Therapeutic Antibodies for Cancer Targets” on 6th June,2022.

The poster is for a Special Invited Talk by Sathya Venkataramani, Director of Biologics at Amgen. It is organized by the Department of Genetic Engineering at SRM Institute of Science & Technology. The talk is titled "Quest for Quality Medicine: Developing Therapeutic Antibodies for Cancer Targets" and is scheduled for 03.06.2022 at 8:00 PM. The convener is Dr. S.Shobana, Associate Professor in the Department of Genetic Engineering at SRMIST. A registration link is provided, and an e-certificate will be provided to attendees.

SRM INSTITUTE OF SCIENCE & TECHNOLOGY
Department of Genetic Engineering

Special Invited Talk
Sathya Venkataramani
Director, Biologics, Pre-Pivotal Drug Product Technology,
Amgen, California, United States

**“Quest for Quality Medicine:
Developing Therapeutic Antibodies
for Cancer Targets”**

Date: 03.06.2022
Time: 8.00 PM (Online via Zoom)
Register at: https://docs.google.com/forms/d/1oeMAe8C_EkPNauiRyKur39BPx1JVEtEloVGh4C1e6ks/edit
E-certificate will be provided

Convener: Dr. S.Shobana
Associate Professor
Department of Genetic Engineering
SRMIST

- Dr. S. Shobana organized a Webinar on “Application of Machine Learning in Biological Sciences”. As a part of the Southeast and South Asia and Taiwan Universities (SATU) joint research scheme, UNIVERSITI KEBANGSAAN MALAYSIA, Malaysia,

The screenshot shows a registration page for a webinar titled "Webinar on Application of Machine Learning in Biological Sciences" organized by the Southeast and South Asia Taiwan Universities Joint Research Scheme. The webinar is scheduled for 25 February 2022, from 1.00-2.30pm. The page lists three guest speakers and a moderator, along with their affiliations and the topic of the webinar. The registration fee is Rs 100/-, and an e-certificate will be provided. A registration link is also provided.

Southeast And South Asia Taiwan Universities Joint Research Scheme Webinar - Adobe Acrobat Reader DC (32-bit)

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Sign In

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**Southeast And South Asia Taiwan Universities
Joint Research Scheme
Webinar on Application of Machine Learning in Biological Sciences**

25 February 2022, 1.00-2.30pm

Guest Speakers

Moderator

Dr. Fareed Saiki
Department of Biological Sciences and
Biotechnology, Faculty of Science and
Technology, Universiti Kebangsaan
Malaysia
Topic: Harnessing Machine-Learning to
triangulate antimicrobial and antibiofilm
peptide

Dr. Rahmad Akbar
Department of Immunology,
Oslo University Hospital
Rikshospitalet and University of
Oslo
Topic: Progress and challenges for
the machine learning-based
design of fit-for-purpose
monoclonal antibodies

Dr.S.Shobana
Associate Professor
Department of Genetic
Engineering
SRM Institute of Science
and Technology
Kattankulathur-603203

Registration fees Rs 100/- (e-certificate will be provided)
Registration link: <https://docs.google.com/forms/d/1CKTconHP0uWPxf56bK0tpEmGh1GAAMGkyOAboHTpjiM/edit>

ENG IN 03:21 PM 14-02-2022

14th GENETIC ENGINEERING RESEARCH SYMPOSIUM

The Department of Genetic Engineering organized a one-day research symposium on 30.6.2022. This is an event organized every year to exhibit the B.Tech & M.Tech student projects through poster and oral presentations. The best research project was awarded with a “Citation award. The best oral & poster presentation awards were given to the deserving students.



Best project award was presented to Ms. Prajitha K Rajan (M Tech)



**Best poster award was presented to
Ms. Sakshi Seth (M. Tech) 1st prize
Ms. Prathiksha (M.Tech) 2nd prize
Mr. Gauresh Shivji (M.Tech) 3rd prize
Ms. Shameli Jeeva (M.Tech) 3rd prize**

E- CONTENT DEVELOPED

A total of 24 teaching videos were developed by the department faculty and uploaded on the department YouTube channel **SRM Genetic Engineering** from January to June 2022.

S.No	Subject/Lab	YouTube link
1	Animal Biotechnology	https://www.youtube.com/watch?v=vHILTVlo3rI&list=PLu4HTMg15xvSdS3odyS5-p-Zws5V8h1B2&index=5
2		https://www.youtube.com/watch?v=VMLMF-tHjL0&list=PLu4HTMg15xvSdS3odyS5-p-Zws5V8h1B2&index=4&t=12s
3		https://www.youtube.com/watch?v=ChgNIp5sq6c&list=PLu4HTMg15xvSdS3odyS5-p-Zws5V8h1B2&index=3&t=147s
4		https://www.youtube.com/watch?v=15Ltp4yXAF0&list=PLu4HTMg15xvSdS3odyS5-p-Zws5V8h1B2&index=1&t=14s
5		https://www.youtube.com/watch?v=UNdEQ-KzgvI&list=PLu4HTMg15xvSdS3odyS5-p-Zws5V8h1B2&index=2&t=56s
6	Bio Process Lab	https://www.youtube.com/watch?v=F6K-vl4a3Y0&list=PLu4HTMg15xvT31U26AEvbmKjVe3AvxxXb&index=1&t=10s
7		https://www.youtube.com/watch?v=pcNOa-D8aOU&list=PLu4HTMg15xvT31U26AEvbmKjVe3AvxxXb&index=2&t=54s
8		https://www.youtube.com/watch?v=szIS6AhQ14k&list=PLu4HTMg15xvT31U26AEvbmKjVe3AvxxXb&index=3&t=4s
9	Bio-Informatics	https://www.youtube.com/watch?v=4sc27KcdnKc&list=PLu4HTMg15xvTgh3h0fazgThMC2Ukv424e&index=1&t=9s
10		https://www.youtube.com/watch?v=RMqQOL43hzE&list=PLu4HTMg15xvTgh3h0fazgThMC2Ukv424e&index=2&t=13s
11	Plant Biotechnology	https://www.youtube.com/watch?v=0Ok5532ibBo&list=PLu4HTMg15xvTFmyxE0DEevS0JZ1Tl8vk1&index=1
12		https://www.youtube.com/watch?v=qC0wlwbzmMM&list=PLu4HTMg15xvTFmyxE0DEevS0JZ1Tl8vk1&index=2
13		https://www.youtube.com/watch?v=-XBVJGkp2QM&list=PLu4HTMg15xvTFmyxE0DEevS0JZ1Tl8vk1&index=4
14		https://www.youtube.com/watch?v=MkdQ0j7Q-BE&list=PLu4HTMg15xvTFmyxE0DEevS0JZ1Tl8vk1&index=3
15	Students Lab videos	https://www.youtube.com/watch?v=LicquorxOe4&list=PLu4HTMg15xvQz0T7FcjnGU4ibH3HYAQP3&index=1&t=38s
16	Immunology	https://www.youtube.com/watch?v=nQ6I7OQFEsQ&list=PLu4HTMg15xvSqDGBtiXsiLA9cPJBdlGeR&index=1&t=196s
17		https://www.youtube.com/watch?v=MX8qgziwsLM&list=PLu4HTMg15xvSqDGBtiXsiLA9cPJBdlGeR&index=2&t=20s
18		https://www.youtube.com/watch?v=Zw8YRlJh4GQ&list=PLu4HTMg15xvSqDGBtiXsiLA9cPJBdlGeR&index=3
19		https://www.youtube.com/watch?v=8WKw5onN1yA&list=PLu4HTMg15xvSqDGBtiXsiLA9cPJBdlGeR&index=4&t=14s
20		https://www.youtube.com/watch?v=3BFX0xYLxBM&list=PLu4HTMg15xvSqDGBtiXsiLA9cPJBdlGeR&index=5&t=93s
21	Instrumentation	https://www.youtube.com/watch?v=j-WY1oRZbKg&list=PLu4HTMg15xvTyLqYNC3uB4YvnkUQMo0Pp&index=1&t=42s
22		https://www.youtube.com/watch?v=gpvoiS6nNwK&list=PLu4HTMg15xvTyLqYNC3uB4YvnkUQMo0Pp&index=2&t=9s
23	Molecular Biology	https://www.youtube.com/watch?v=EFg9nAycrUY&list=PLu4HTMg15xvQm2BlaC04aJZ9v1TcREVMb&index=1&t=10s
24		https://www.youtube.com/watch?v=Eg9YeeMNVU&list=PLu4HTMg15xvQm2BlaC04aJZ9v1TcREVMb&index=2&t=11s

E- CONTENT DEVELOPED

A total of 17 videos on departmental activities, including lab facilities and departmental events were uploaded during during the period of January to June 2022 on the department YouTube channel- **SRM Genetic Engineering**.

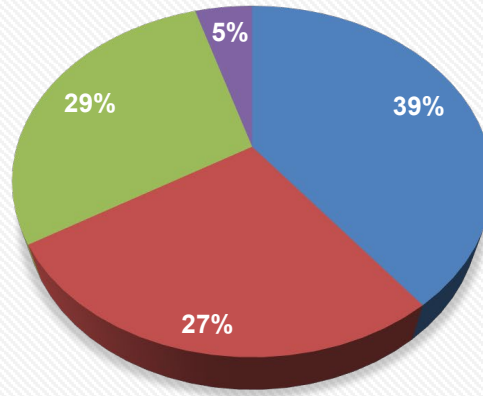
S. No	TOPIC	YouTube LINK	TITLE
1	Genetic Engineering Dept - An Introduction	https://www.youtube.com/watch?v=lsiC9Bpd6AI&list=PLu4HTMg15xvTOM1NqeN5169uKotB9w8KN&index=1	Department of Genetic Engineering
2	Events	https://www.youtube.com/watch?v=Cr3YvOYEerk&list=PLu4HTMg15xvSr0jU82pTDjyNb5Kt-vRLQ&index=1	Special Talk
3		https://www.youtube.com/watch?v=fmTpNnd3Qew&list=PLu4HTMg15xvSr0jU82pTDjyNb5Kt-vRLQ&index=2&t=7s	Special Talk
4		https://www.youtube.com/watch?v=c_11xtMJEdA&list=PLu4HTMg15xvSr0jU82pTDjyNb5Kt-vRLQ&index=3	Special Talk
5	Lab Facilities	https://www.youtube.com/watch?v=iDNqpFIL4w8&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=1	Molecular Biology Lab
6		https://www.youtube.com/watch?v=8xOOJVawt50&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=2&t=40s	Cancer Genetics Lab
7		https://www.youtube.com/watch?v=K1gz7Z-z6BA&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=3&t=20s	Immunogenetics Lab
8		https://www.youtube.com/watch?v=BEteoW5qz90&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=4&t=137s	Stem cell cancer Biology Lab
9		https://www.youtube.com/watch?v=4-FEUtokLAA&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=5&t=11s	Genomics Lab
10		https://www.youtube.com/watch?v=LQrkK7Q6Un8&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=6	Common Research facility
11		https://www.youtube.com/watch?v=o8-NrGSCaRs&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=7	Scholar Lab
12		https://www.youtube.com/watch?v=Pgl94RQlhxw&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=8&t=3s	Plant Virology Lab
13		https://www.youtube.com/watch?v=vQLDn937-0E&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=9	PCOS lab
14		https://www.youtube.com/watch?v=slanebs_jXo&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=10&t=4s	Scholar Lab 2
15	https://www.youtube.com/watch?v=EhI0Vxm01YE&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=11	Transenic Greenhouse Facility	
16	https://www.youtube.com/watch?v=Dh1mKQRXowk&list=PLu4HTMg15xvR_kxr_2sVEM6ieZm20G0tx&index=12&t=4s	Zebrafish Genetics	
17	Semester Abroad Program	https://www.youtube.com/watch?v=irVyjTPlwZI&list=PLu4HTMg15xvSFC8FM1Q7aQrOA_p3v8M6S&index=1&t=12s	Semester Abroad Program

PLACEMENTS

Campus Placements: In 2022, thirty-three students enrolled for the campus placements from the Department of Genetic engineering. Campus placement mainly attract IT and IT service companies, and the total placement percentage was 81.8%. Students were placed majorly in business analytics companies. The average and the highest pay package of 4.98 lakhs and 15.25 lakhs per annum respectively.

Name of Student	Course	Placed in Company	Job Profile Title	CTC (lakhs)
Ishwaryavidya Nagarajan	B. Tech-Genetic Engineering	Fractal Analytics	Imagineer	15.25
Annie	B.Tech -Genetic Engineering	Business Development Executive	Masters Learn	7
Wasim Akther M	B.Tech -Genetic Engineering	Business Development Associate	Masters Learn	7
Ishwarya C T	B.Tech -Genetic Engineering	Production Software Engineer,	Cerner Healthcare	6.6
Hemalatha Muralikrishnan	B.Tech -Genetic Engineering	Program Managers	FACE	6
Saransh Mishra	B.Tech -Genetic Engineering	Analyst	The Math Company	5
Harshita Sushant Gandhi	B.Tech -Genetic Engineering	Graduate Engineering Trainee (GET)	Zifo RnD Solutions	4.76
Shivani S	B.Tech -Genetic Engineering	Cognizant	Generation cognizant	4
Kota Bhaargavi Sai	B Tech -Genetic Engineering	Cognizant	Generation cognizant	4

Chart Title



■ Higher Studies, Abroad ■ Higher Studies, India ■ Jobs, India ■ Jobs, Abroad

Foreign Institutes in which our alumni are pursuing higher studies:

- University of Liverpool, UK
- Queen Mary University, UK
- University of Leeds, UK
- University of Glasgow, Scotland
- Trinity college, Dublin, Ireland
- Nottingham University, UK
- University Of Arizona, USA
- Harvard University, USA
- Taichi University, Taiwan
- Paris Grenoble Ecole de Management, France
- University of Texas, Dallas, USA
- Queen Mary University of London, UK
- PACE University, UK
- Chosun University, South Korea
- Michigan Technological University, USA
- University of Chester, USA
- Southern Illinois University Edwardsville, USA
- University Sains Malaysia, Malaysia
- Max Planck Institute, Germany

Core Companies where our alumni are employed:

- Zifo R&D, Chennai, Tamil Nadu
- Cactus Communications, Bangalore, Karnataka
- SRL Diagnostic Lab, Chennai
- SmartX connected products, Chennai
- Moulana hospital, Kerala
- Eazima Solutions Pvt. Ltd., Madhya Pradesh
- Xcode lifesciences, Chennai, Tamil Nadu
- Reliance life sciences, Mumbai
- Mandala Bioworks, Bangalore, Karnataka
- Hinds Diagnostic Lab, Chennai



Faculty members, Department of Genetic Engineering



THANK YOU

Visit our official Social Media channels



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<https://www.youtube.com/channel/UCTQmxJP1qXuqr1GnxvFVSMw>



https://instagram.com/geneticsrm?utm_medium=copy_link



<https://in.linkedin.com/company/srm-ist-chennai>

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