SRM
INSTITUTE OF SCIENCE & TECHNOLOGY

Department of Biotechnology

Anveshna Newsletter

EDITION 20.1

Anusandhaan

ANVESHNA NEWSLETTER HEADS: HARIKA MAGANTI, SNOOPY HAZARIKA

EDITORIAL TEAM: ANUSHKA, L. ARJUN KRISHNA, MADHUMITHA, RASHMITHA

STUDENT COORDINATOR: S. BALAZEE

CREATIVE TEAM HEADS: ABHISHEK GEORGE EYEROOR, BIBIN KN

FACULTY CO-ORDINATOR: Dr. PRIYA SWAMINATHAN

CONTENTS

India's fight against the pandemic - COVISHIELD AND COVAXIN

L. Arjun Krishna (III year, Biotechnology)

Covid-19 is a viral infection caused by SARS-CoV-2 virus. It has proven to be one of the most catastrophic pandemic with worldwide registered cases of over 170 million with around 3.5 million recorded and the numbers are still growing. Symptoms of the disease include fever, cough, throat infection, loss of smell and taste, etc. As a precaution against the virus, the Indian government with the help of various pharmaceutical companies has issued two vaccines - Covishield and Covaxin, to be administered to its citizens.

Covishield

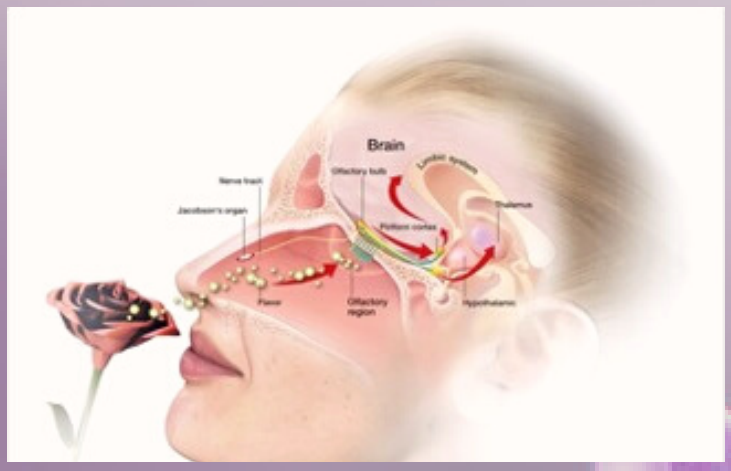
Covishield was developed by Oxford University in collaboration with AstraZeneca and is locally manufactured by Serum Institute of India. Covishield contains a weakened form of the common cold virus isolated from chimpanzees. The isolated virus is modified to resemble the coronavirus. Once the vaccine is administered it stimulates the immune system to produce antibodies against any kind of coronavirus. The vaccine is administered in two doses, twelve weeks apart.

Covaxin

Covaxin was invented by Bharat Biotech and consists of inactivated or dead coronavirus. As the pathogen is inactivated it is deprived of its property to replicate inside the human body. When the vaccine is administered the inactivated pathogen is recognised by our immune system. As a result, antibodies are produced against it. The vaccine is administered in two doses, four weeks apart.

Loss of Smell (anosmia) caused by SARS-CoV-2 infection

L. Arjun Krishna (III year, Biotechnology)



Symptoms of Covid-19 include fever, fatigue, cough, loss of smell and taste, etc. According to studies loss of smell caused by covid-19 is one of the cardinal symptoms of SARS-CoV-2 infection. Analysis of electronic health records showed that Covid-19 patients are 27 times likely to have a loss of smell and 2.2 to 2.6 times likely to have a fever, cold or other respiratory problems, compared to patients without Covid-19.

It has been found that cells that exhibit the genes ACE2 and TMPRSS2 are vulnerable to the SARS-CoV-2 virus and are responsible for the loss of smell caused by SARS-CoV-2. ACE2 and TMPRSS2 genes code for a receptor protein and enzyme, respectively and are required for the entry of the SARS-CoV-2 virus into the human body. ACE2 and TMPRSS2 genes are expressed in olfactory epithelial cells, which are responsible for odour detection and houses the olfactory neurons. They also provide structural and metabolic support to the olfactory neurons.

Covid-19 patients recover their sense of smell a few weeks post-recovery, while it may take several months to recover from anosmia caused by viral infections that cause direct damage to olfactory neurons. Some viruses cause anosmia by triggering respiratory issues such as a stuffy nose.

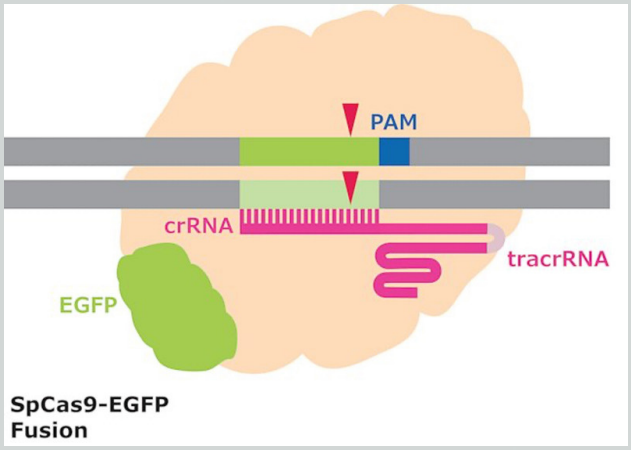
WILL PHYTOMEDICINE BE THE FIGHT-O-MEDICINE AGAINST COVID-19?

Rashmitha Senthilvel Selvakumar (III year, Biotechnology)

Amidst the pandemic progressing at an alarming rate and post-vaccination side effects, one can't help but explore the therapeutic capacity of medicinal plants. Compared to their synthetic counterpart, medicinal plants are biocompatible and less toxic. Phytomedicine can be used in the form of decoction or tea but the efficacy of phytochemicals will be maximal in their pure forms or in a mixture to form a compound drug. A complete understanding of the metabolic pathways along with their conservation status, ecology and ethnobotany are necessary for drug development. As the current COVID-19 viruses are similar to their ancestors: SARS-CoV and MERS-CoV, the phytochemicals used against the earlier coronaviruses may prove to be worthy drug candidates if examined well. Previously, plants like liquorice root, forsythia fruit, bitter apricot seed, garlic, basil, amla, etc., assisted in weakening the outbreaks. Phytochemicals battle against the coronaviruses via many mechanisms like inhibiting viral entry in the host cells, altering enzymes facilitating replication or blocking the release of viral particles. Further, they also alleviate the primary manifestations in the respiratory system like cold, cough, flu and breathlessness. Medicinal plants often show anti-VRI (Viral Respiratory infection) activity. These plants show direct antiviral activity (Glycyrrhiza sp.), act as an analgesic (Calendula officinalis), anti-inflammatory activity (Hedera elix) and stimulate the immune system (Andrographis paniculate). Therefore, one cup of herbal tea infused with tulsi, ginger, honey, turmeric, etc., every morning can likely act as our homemade concoction to prevent infection by the deadly virus.

Our beloved Indian Fictional detective Feluda is back, this time the suspect is the Covid-19 virus

S. Balazee (III year, Biotechnology)



Amid a global pandemic, the increasing cases of Covid-19 have overburdened the healthcare system due to time-consuming screening tests (RT-PCR). RT-PCR is a high accuracy test for detection of SARS-CoV-2 which is performed in a laboratory using a thermocycler.

Poor infrastructure along with the low availability of thermocyclers make it difficult to achieve effective and efficient screening. This has led to the development of various other screening tests, one of the results of such research is the FELUDA (FNCAS9 editor limited uniform detection assay) inspired by the fictional character Feluda by Satyajit Ray. It was developed by the CSIR Institute of genomics and integrated biology and marketed by the TATA group. It is a fast, reliable and cost-effective diagnostic test for the detection of SARS-CoV-2. It uses CRISPR Cas 9 technology for which Emmanuelle Carpentier and Jennifer A. Doudna were awarded the Nobel prize in chemistry in the year 2020. The test is very similar to a pregnancy test, here the Cas protein along with a guide RNA bind to a specific sequence of SARS-CoV-2 virus if they are complementary to each other and will form a black band on the test. It was tested on 2,000 patients and achieved 96-98% specificity and was approved by DCGI (Drug Controller General of India). Feluda test is more efficient and economical when compared to the RT-PCR test and doesn't require manpower. Feluda test, an innovative diagnostic kit designed for the detection of the SARS-CoV-2 virus will fasten the process of contact tracing and help in containing the virus.

A compliment a day keeps negativity away

Anushka Jain (III year, Biotechnology)

You wake up one fine morning. Look at yourself in the mirror. How many days went by when you found yourself beautiful? How many days did you say to yourself, “Keep up that beauty just the way it looks now”? Well, the numbers are pretty low and/or near to nil, isn’t it?

We all keep telling our best friends, “you deserve better” but what about ourselves? Why do we tell this to ourselves only when we are down in the low? We should call this out each day in our busy lives. Because each day stands to be a new start. It sets in a new statement for you. You achieve new goals and targets each day. And so, you need to keep loving yourself so that you can compete with your previous self and win in the situation.

This will help you build more positivity around you and will help you fight if not all, most of your battles. It will teach you how each day, the thing that should be most important to you, is only YOU.

Research suggests that complimenting someone or even yourself, give individuals a chance to think out of the box and away from all the negativity. It unfolds for them a sight that helps them look beyond the bitter things in life. And once loving oneself becomes a habit, there is no going back. So go ahead, take care of your favourites. Help them live happily. Teach them a quick sweet lesson on the positives of life. And most importantly, COMPLIMENT THEM AND COMPLIMENT YOURSELF. Because maybe one line of praise can change someone’s perspective and make them better each day.

HONOURS

1. Dr. V. Vinoth Kumar was invited as Adjunct Professor by Sherbrooke University, Canada.
2. Dr. P. Kanagaraj was invited as Adjunct Professor by Saveetha Institute of Medical and Technical Science.
3. Dr. S. Rupachandra was awarded the Young Scientist Award by B.S. Abdur Rahman Crescent Institute of Sciences and Technology, Chennai, Tamil Nadu.
4. Dr. Samuel Jacob was awarded the Phoenix Project Award (World Environmental Day 2020) by Centre for Environmental Nuclear Research, SRMIST Kattankulathur.
5. Dr. N. Selvamurugan was awarded the Best Oral Presentation Award by B.S. Abdur Rahman Crescent Institute of Sciences and Technology, Chennai, Tamil Nadu. He also won the First Prize in Oral Presentation Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu.
6. Dr. K. Ramani was awarded the Best Poster Presentation Award by SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu. She was also awarded the Best Paper Presentation Award by B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai.
7. Dr.K.M. Ramkumar was awarded the Best Paper Presentation Award by Research Society for the Study of Diabetes in India.

Alumni Talks

Date of talk	Alumni name	Batch of alumni
02/21/2020	Mr. Kishore Aravind	2017
02/24/2020	Mr. Ravichandran	2017
05/07/2020	Mr. Gowtham	2018
05/21/2020	Mr. Rahul Ananth	2009
06/01/2020	Dr. Sharmili Roy	2016
06/02/2020	Mr. Kannan Thangamani	2011
06/03/2020	Mr. Naman Adlakha	2011
06/04/2020	Mr. Mukesh Prakash Gocher	2011
06/05/2020	Dr. Moen Sen	2011
06/05/2020	Ms. Shaifali Barwal	2011
	Mr. Mayank Saravagi	2011

RESEARCH AWARDS

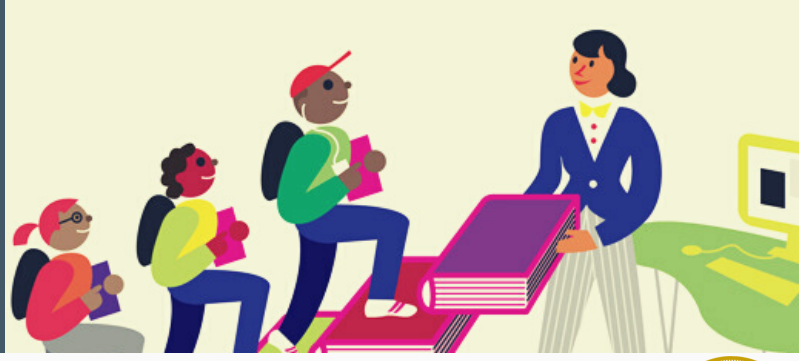
- Dr. K. Ramani – Award by DST-SERB, Govt. of India on 5th of May 2020. Topic: An integrated technology for treatment of microplastics and plastic derived compounds from municipal landfill leachate.

- Dr. D.V.L. Sarada – Award by ICMR, Govt. of India on 4th of April 2020. Topic: Study on the effect of Oleo-Gum Resin of *Commiphora wightii* and its active principles on lipoprotein lipase and lipid droplet motility during adipogenesis.

- Dr. Suvankar Ghorai – Award by STAR-MHRD. Topic: An integrated approach for developing a liposome based point of care paper diagnostic kit for dual detection of dengue virus infection.

- Dr. K. Ramkumar – Award by ICMR, Govt. of India. Topic: Study on epigenetic modulation of Nrf2 by small molecules for diabetic foot ulcer.

STUDENT ACHIEVEMENT



International Conference Awards

1. Sujanya Ramkumar - Poster presentation - Sustainable Technologies In Waste Management 2020 (Second Prize), SRMIST, Kattankulathur.
2. Mansi Saxena - Best Poster Presentation Award in the International Conference on Recent Trends in Bio-nanotechnology, Energy and Environment 2020. Crescent Institute Of Science And Technology - Chennai-Trichy National Highway, NH45, Vandalur, Tamil Nadu - 600048.

National Conference

1. Nabani Paul - Chefrona2.0 (2nd Prize), Rotaract Club SRM KTR.
2. Shashank Chandrasekar - MaRRS Spelling Bee District Level Winner - I prize, MaRRS Intellectual Services.
3. Yashika Sharma - Attended EBSC camp in SRM NCC. Uttar Pradesh Directorate, National cadet corps
4. Shushrruth Sai Srinivasan - Best Project/ Best Working Model. Department of Physics and Nanotechnology, SRM Institute of Science and Technology
5. Thennavan U - 2nd place in My creative outlook conducted by Goethe Institute, Chennai. No. 4, 5th St, Rutland Gate, Srirampuram, Thousand Lights West, Nungambakkam, Chennai, Tamil Nadu 600006
6. Akshaya Narayanan - Gold medal, Research Day 2020, SRM IST. Elected keynote speaker, International Day for Women & Girls in Science 2020, SRMIST, Kattankulathur.

SRM Academic Excellence

1. AAYUSHI ARORA
2. ABHINAYA SWAMINATHAN
3. AITIJHYA GHOSH
4. AKSHAD BALADE
5. AMRITA CHATTERJEE
6. ARUNAVA PODDAR
7. BORKAR GARGI PRASAD
8. DEBORAH LILLY THOMAS
9. HAMSINI S
10. HARINI P
11. IKSHA BHARGAVA
12. JORDAN SYLVESTER FERNANDES
13. MANJEERA NATH
14. MANSI SAXENA
15. NANDINI SHARMA
16. NAYANIKA SARKAR
17. POORNIMA A
18. RISHABH RAI KAUSHIK
19. SALONI TRIPATHY
20. SAMHITA V
21. SAMPURNA GUHA
22. SANDHYA RAMANAN
23. SANJANA ANANTH
24. SANJANA NARAYANAN
25. SANJANA NUTI
26. SMRUTI B BHATT
27. SNOOPY HAZARIKA
28. SUJANYA RAMKUMAR
29. SWARNIKA SINHA
30. SWATI S
31. TRISHLA ADHIKARI
32. VARSHNI ARVIND
33. VIBHA K
34. VIJAYALALITHA P

Faculty Corporate Training

1. Dr.K.Ramani, Dr.V.Vinoth Kumar, Dr.B.Samuel Jacob - International Conference on Sustainable Technologies for Industrial Hazardous Waste Management and Bioenergy (STIWMB-2019). Date: August 7 – 9, 2019
2. Dr.S.Barathi, Dr.R.Vasantharekha, M.K.Jaganathan - Workshop for Medical Practitioners on Circulatory MicroRNA: A Non-invasive Diagnostic Approach. Date: September 26-27, 2019
3. Dr.S.Rupachandra, Dr.K.Venkatesan, Dr. S.Priya - Workshop on "Protein Biology Techniques" Date: 30 - 31st August 2019
4. Dr.Sarada DVL - Faculty Development Program on Patent Mining and Landscaping and RARIORA-2019-Health, Hygiene and Happiness. Date: 25-02-2020 - 29-02-2020
5. Dr.S.Nageswaran, Dr.K.Venkatesan, Dr.R.Pachaiappan and Dr.B.Samuel Jacob - One Day Workshop on Advancement of Research and Academic Facilities in Biotechnology in 2020
6. Dr. Sandeep Koka - Sanger Sequencing Workshop, qPCR Workshop, and Sanger Sequencing Workshop in 2020

Innovation Award

- Wealth from Waste - Dr. Samuel Jacob, Assistant Professor, Centre for Environmental and Nuclear Research, SRMIST
- Best Oral Presentation Award - Dr. N. Selvamurugan, Professor, B.S.Abdur Rahman Crescent Institute of Sciences and Technology, Chennai, Tamil Nadu.
- First Prize in Oral Presentation - Dr. N. Selvamurugan, Professor, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu
- Best Poster Presentation Award - Dr. K. Ramani, Associate Professor, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu
- Best Paper Presentation Award - Dr. K. Ramani, Associate professor, International Conference on Applications of Biotechnology and Nanotechnology (ICBN-2019), School of Lifesciences, B. S . Abdur Rahman Crescent Institute of Science and Technology, Chennai
- Best Paper Presentation Award - Dr. K.M. Ramkumar, Associate Professor, 47th Annual meeting of Research Society for the Study of Diabetes in India, Jaipur, Rajasthan
- II prize-Poster presentation - Nikhil Bharadwaj, Student, SRMIST, Kattankulathur
- Gold medal, Research Day 2020, SRM IST. Elected keynote speaker, International Day for Women & Girls in Science 2020, SRM IST. - Akshaya Narayanan, Student, SRMIST, Kattankulathur.
- Best Paper Presentation Award - Ila Joshi, Research Scholar, Centre of Ocean Research, Sathyabama Institute of Science and Technology, Chennai in 2020
- Best Paper Presentation Award - Ila Joshi, Research Scholar , Directorate for Research and Virtual Education, SRM Institute of Science and Technology in 2020
- A novel Surface-active Biomolecules-Ferric ionosphere scaffold for the removal of toxicants and refractory organics from Landfill leachate - Dr. K. Ramani, Associate Professor, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu.

Exam

GATE:

Aarathi Nandhakumar- RA1611009010176
Abhinaya Swaminathan - RA1611009010123
Akshad Balde - RA1611009010146
Angana Chaudhuri - RA1611009010044
Anuja Warrier - RA1611009010212
Mann Niraj Dangarwala - RA1611009010274
Nayanika Sarkar - RA1611009010169
Nazim Abbas Zaidi - RA1611009010186
Ritwik Pandey - RA1611009010227
Sanjana Narayanan - RA1611009010113

GRE:

Arun Srivathsan R. - RA1611009010030
Jahnavi Gupta - RA1611009010100
Manika Gupta - RA1611009010215
Niveditha R. - RA1611009010008
Samhita V. - RA1611009010028
Sristi Dey - RA1611009010014
Svathi M. - RA1611009010057
Swati S. - RA1611009010004

IELTS:

Aadyasha Mishra - RA1611009010051
Dharshene K. - RA1611009010005
Jahnavi Gupta - RA1611009010100
Liza Sisodia - RA1611009010251
Natasha Jacob - RA1611009010255
Niveditha R. - RA1611009010008
Noorul Shaheen - RA1611009010002
SHAIK FAYAZUDDIN - RA1611009010073
Prasith T. P. - RA1611009010007
Roshini R - RA1611009010003
Samhita V - RA1611009010028
Sanjana Prakash Hemdev - RA1611009010283
Srujita M - RA1611009010029
Swati S. - RA1611009010004
Taniya Pal - RA1611009010054
Trishla Adhikari - RA1611009010246
Vasudevan S. - RA1611009010047

TANCET:

Haripriya S. - RA1611009010275
Hemalatha M. - RA1611009010281
Lavanya M. - RA1611009010026
Reshma Shrii A. - RA1611009010089

Interaction with External Dignitaries

DC Meeting

1. Dr. Allen J Freddy - Assistant Professor, Madras Christian College
2. Dr. M.C. John Milton - Assistant Professor, Loyola college
3. Dr. Manoj - Indian Institute of Technology, Madras
4. Dr. N. Manickam - Senior Principal Scientist, CSIR- Indian Institute of Toxicological Research, Lucknow
5. Dr. N. Vasudevan - Professor, Centre for Environmental Studies, Anna University
6. Dr. P.N. Sudha - DKM Women's College Vellore (Under Thiruvalluvar University)
7. Dr. Ravi Shankar - Professor, ALM PG Institute of Basic Medical Science, University of Madras
8. Dr. S.S. Malini - Professor, University of Mysore
9. Dr. Satyanarayana Gummadi - IIT Madras, Chennai
10. Dr. Thangadurai Paramasivam - Centre for Nanoscience and Technology, Pondicherry University, Kalapet, Pondicherry, 605014, India.

Guest Lecture

1. Dr. Kohie Soga - Department of Material Science and Technology, Tokyo University of Science
2. Dr. Kyohei Okubo - Department of Material Science and Technology, Tokyo University of Science
3. Dr. Masakazu Umezawa - Department of Material Science and Technology, Tokyo University of Science
4. Dr. Subhas Lakhotia - Banaras Hindu University, Varanasi, India

Expert Lecture

1. Dr. D. Sudhakaran - Managing Director, Golden Jubilee Biotech Park for Women Society, Chennai
2. Dr. Geethanjali Radhakrishnan - Adiuvo Diagnostics Pvt, Ltd., Chennai
3. Dr. K. Rajeshwari - Founder and Managing Director - Bioklone Pvt., Ltd., Chennai
4. Dr. Nithya Kalyani - Cell 2 Cure Pvt., Ltd., Chennai
5. Dr. Priyadharshini Mani - Director, Co-founder, JSP Enviro Pvt, Ltd, Chennai
6. Dr. Rajeswari Kathiah - Associate professor, ESIC Medical College and PGIMSR, Chennai
7. Dr. Sampathkumari - Professor, Institute of Obstetrics and Gynecology, Chennai
8. Dr. Sriram Raghavan - Vice President at Jananom Technologies
9. Dr. Viveka Kalidasan - NUS Singapore
10. Mr. Gowtham Sarvesh - Keiretsu Forum, Chennai
11. Ms. Bandita - Golden Jubilee Biotech Park for Women Society, Chennai

Placements

- Accenture, Chennai – Garima Sharma
- Ajuba Global Service, Chennai – Janani V.
- Amazon, Chennai – Debojit Nath, Mridula S, Priyadarshini P.S., Sornavelu S.
- Anthem Biosciences Pvt. Ltd., Bengaluru - Akash Francis Fernandes
- Astra Zenica, Chennai – Keerthana S.
- Aurobindo Biologics, Hyderabad – Nishtha Balodi
- Avegaz Software Associate, Telangana – Megan Melissa Cassel
- Bakers International, Coimbatore – Varsha Ithakshi
- Bencos Research Solutions Pvt. Ltd., Mumbai – Saloni Patnaik
- Beyond Digital Solutions Pvt. Ltd., Hyderabad – Abhigna Manapragada
- Biocon Ltd., Bengaluru – Surya Sekhar Pal
- Biomaterials and tissue engineering lab, IIT Guwahati – Ayushi Mukherjee
- BITP-Aaranya Biosciences, Chennai – Maninee Shrivastava
- Born Group, Tharamani, Chennai. – Hansa Rajaraman
- Byju's , Bengaluru – Aishwarya, Debottama Mukherjee, Harshavardini Kamak D., Madhuvanthi Sriram, Manjusha Pendam
- Chola people and Marketing Services, Chennai– Uthara Shankar
- Cleartax – Ratul Mukherjee
- Climber Knowledge Career Pvt. Ltd., Bengaluru – Rushenka Vashti Christopher, Vijaya Saha
- Crimson Interactive Pvt. Ltd., Mumbai – Rishika Augustine Rodrigues
- Defmacro Software Ltd., Bengaluru – Sanjeev Kumar
- Delhivery, Gurgaon– Simran Agarwal
- DLF, Techno-Functional Consultant., New Delhi – Shreya Natarajan
- Entrepreneur – Arjun M., Debabrata Mandal, Dhwani Popat, Himanshu Kumar Jain M.
- Episource Pvt. Ltd., Chennai – Dinesh Kumar U.
- Eppendorf, Chennai - Rajath
- Extramarks Education Pvt. Ltd., Noida – Vaishnavi R.
- FACE, Coimbatore – Sneha Maity
- Flipkart Pvt. Ltd., Chennai – Sanheeth Reddy
- Freshworks, Chennai – Aishwarya P., Mahasweta Bhattacharya
- GetMyUni, Inside Sales executive., Bengaluru – Firdaus Ahmed Parvez
- Government of Bihar, Land and Revenue Department – Lily Priyadarshini.

- GREedge, Chennai – Sahithya Varshini B
- High Radius, Hyderabad – Arpita Mukherjee, Mercy Simren S., Shivangi Mohan
- IBS, Mumbai – Dishi Karemore
- ICON Clinical Research, Chennai. – Vijay Mehta, Vura Bhavyasri
- ICON Plc, Chennai – Kamini C, Malavika Vijay, Priya Karpaga
- IISc, Bangalore, Research Assistant – Gokul Sriman T.
- Indigo airlines, Gurugram – Nivedita Turna
- Infosys, Chennai – Shashanth D.
- InterGlobe Aviation Limited, Chennai – Sanjana Dhakad
- Jawaharlal Centre for Advanced Scientific Research, Bengaluru, R&D Assistant – Anjhana C. R.
- Jawaharlal Nehru Centre for Advanced Scientific research, Project Assistant, Bengaluru – Niraj Yadav
- Johnson & Johnson, Chennai – Arun Kumar S.
- Kissflow SaaS Startup, Chennai – Jeevavignesh J.
- KnowDis Data Science LLP, Delhi – Arushi Mithal
- Mcgill University, Canada – Samarth Tandon
- Mcleod Russel, India – Shivalika Choudhury
- Medigene Clinicals, Nagpur. – Pulak Gillurkar
- Medrona medical billing services Pvt. Ltd., Chennai – Radha R.
- Microbiological Laboratory Research and services, Coimbatore, Project Assistant – Jairam S.
- Monsanto (now Bayer), Bengaluru – Krishi Vijay Nithi Sankara
- Navira Organo Pvt. Ltd., Hyderabad – Sreeja Kalagotla
- Navitas Life Sciences, Chennai. – Karthick Rajan S.
- Nestlé India Pvt. Ltd., Chennai – Aarti Ryali
- Newt Global, Chennai – Dipti Venkiteshwaran Iyer
- Omega Healthcare, Chennai – Sruthi Rajan
- PayPal India Pvt. Ltd. Bangalore. – Rishika Murjani
- Pick Ur Trail, Travel Consultant, Chennai – Siddhishree S.
- Pharma Biosciences, Hyderabad – Venkata Aravind P.
- Psychon Ltd. Goa – Mohan Kumar V.
- Pulsus healthtech, Chennai – Abhinanda Deb, Kritika Sharma
- Redington, Kanchipuram – Jiny George
- Republic World, Mumbai – Siddharth Iyer
- Research Analyst – Samprita Singh
- RK Feed equipments, Gujarat – Bhandari Mahima Deepak
- RTO, Madurai – Vinoth Kumar
- Rubber Research Institute of India, Kerala – Rinu Johny
- Saint-Gobain, Chennai – Akashram R.
- SAPS, Singapore – Abhishek Franco

- Shiva Analyticals (India) Pvt. Ltd., Chokkahalli – Srinidhi Muthukumar
- Simplilearn, Chennai – Poorva Gupta
- Six red marbles learning Pvt. Ltd., Chennai – Sai Bharadwaja Chadalavada
- SoCheers Infotech Pvt. Ltd., Mumbai – Jahnavi Gupta
- Solarity, Bangalore – Varsha Ram B.
- TCS, Chennai – Debika Roy
- Teach for India, Chennai – Kaustubh Dhar, Radhika Shukla
- Technosoft, Chennai – Biju E.
- Think and Learn, Bengaluru – Kashish Kohli
- TNQ, Chennai – Aastha Joshipur, Juhna J.R.,
- Tosoh India Pvt. Ltd., Thane – Deepika Choudhary, Hemang Prakashchandra Jain, Krithikaa R., Meghna Dash, Pavithra B.
- Trainee Medical coding – Subhashree S.J.
- University of Petroleum and Energy Studies, Dehradun – Dibyajyoti Dash
- Valued Epistemics, Chennai – Sumedha Sarkar
- West Coast Sea food Exports, Chennai – Anu Shoba Shyam
- Zifo Rnd Solutions, Chennai. – Karthik Konduru, Krithika Sonali K. N., Meghna Maitra, Poulomi Ghosh
- Zinnov, Bangalore – Pavithra Bhaskaran
- Zoom Rx Inc., Chennai – Harika D, Karni Medh

Higher Studies

S.No.	Name	University
1.	Aasha M.	Charité Universitätsmedizin, Germany
2.	Dharini AD	SRM Institute of Science and Technology
3.	Dhwani Swaminathan	SRM Institute of Science and Technology
4.	Swetha Senthilkumar	SRM Institute of Science and Technology
5.	Rakshika Raveendran	IIT, Delhi
6.	Aditi Agrawal	University of Queensland, Australia
7.	Sanjay S. Kumar	Leiden University, Netherlands
8.	R Rajagopalan	BITS Pilani, Rajasthan
9.	Girinaath Paranjothi N S	KPR IAS Academy, Coimbatore
10.	M. Shruthi	University of Wisconsin Madison, US
11.	Nikila Raman	ICFAI Business school, Bengaluru
12.	Ritobrata Bhattacharyya	VIT, Vellore
13.	K. Shreya	Lincoln University, UK
14.	S. Nilaa	Macquaire University, Australia
15.	Srividya M	IIT Kanpur
16.	Shreya Srinivasan	McGill University, Canada
17.	Harshini Sridharan	BITS Pilani, Rajasthan
18.	Krishnakumar Ramachandran	Wageningen University and Research, Netherlands
19.	Malavika B Desai	Uppsala University, Sweden
20.	R. Yuvashree	Anna University, Chennai
21.	Pranay. R. Bohra Heriot	Watt University, UK
22.	Jagadeeshwari S.	SRM Institute of Science and Technology
23.	Nivedita Kumar	NITK, Mangalore
24.	R. Tharun Prasanna	Wageningen University and Research, Netherlands
25.	M K Varshini	University of Gronigen, Netherlands
26.	J. Anjali	IIT Guwahati
27.	S. Sruthi	SASTRA, Tirumalaisamudram
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MOU & Internship

MoU Research

1. CSIR - Indian Institute of Chemical Technology - Dr. D. Shailaja, Head - Business Development & Research Management, CSIR-Indian Institute of Chemical Technology, Hyderabad- 500007 - Dr.M.Vairamani, Dr. V. Vinoth Kumar & Dr.K.Ramani
2. Golden Jubilee Biotech Park, Dr. Nisha Mukund, Senior Scientist, Chennai. - Dr. B.Samuel Jacob & Dr. V. Vinoth Kumar
3. Orchid Pharma Ltd., Dr. S.Sam Gunasekaran, General Manager, Environment and Safety, Chennai. - Dr. K. Ramani, Dr.V.Vinoth Kumar & Dr. B.Samuel Jacob

Research Collaboration

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- Abhilash Chemicals and Pharmaceuticals, Madurai
- AdityaCare hospital, Telangana
- Afcons, Mumbai
- AIESEC Leadership Development Experience, Egypt
- Alpha Omega Hi-Tech Bio Research Centre, Salem
- Amri Hospitals, Kolkata
- Amul Dairy, Gujarat
- Anthem Biosciences Pvt. Ltd., Bengaluru
- Apex Biotech Training and Research Institute, Chennai
- Apollo Hospital, Chennai & Mumbai
- Apollo Speciality Hospital, Teynampet
- Aristogene, Bengaluru
- Armats Biotek Training and Research Institute, Chennai
- Aurigene Discovery Technologies Limited, Bangalore
- Aurobindo Biological R&D Centre, Telangana
- Averin Biotech Pvt. Ltd, Hyderabad
- Azyme Biosciences Pvt. Ltd., Bangalore & Rajasthan
- B.J. Medical College, Ahmedabad
- B.S.Medical College, Bankura
- Baba Clinical And Genomic Research Centre, Chennai
- Bajaj Healthcare Limited, Gujarat
- Banaras Hindu Universisty, Varanasi
- BARC, Tarapur
- Baroda Dairy, Makarpura Road, Vadodara
- BCG Vaccine Laboratory, Chennai
- BioAxis DNA Research Centre, Hyderabad
- BioGenomics Ltd., Puducherry
- Bioklone, Siruseri
- Biolim Centre for Science & Technology, Chennai
- Biomolecule And Biocatalytic Lab, SRMIST
- Biotech Park in Biotechnology City, Lucknow
- Biozone Institute of Life Sciences, Chennai
- Cancer Institute, Adyar, Chennai
- Centre de Recherche des Cordeliers, Paris, France
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- CLRI, Chennai
- CMC Vellore
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- College of Medicine and J.N.M Hospital, Nadia
- College of Science & Technology, University of Calcutta
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- Credora Lifesciences, Bengaluru
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- CytoGene R&D, Lucknow
- Department of BioPhysics, Biology and Bioinformatics, University Of Calcutta
- Department Of Genetics, University Of Calcutta
- Dey's Medical Stores, Kolkata
- Dibrugarh University, Assam
- Dr. Kamakshi Memorial Hospital, Chennai
- Dr. Reddy's Laboratory, Hyderabad
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- Environmental Survey Lab, Tarapur, Maharashtra
- FIB-SOL Life Technologies Pvt. Ltd., Chennai
- FICCI Research & Analysis Centre, New Delhi
- G.K. Dairy Industry, Kurichi
- GeneSys biologics, Hyderabad
- Gleneagles Global Health City, Chennai
- Global Institute Of Biotechnology, Hyderabad
- GSVM Medical College, Kanpur
- Guwahati Neurological Research Centre, Guwahati
- Haffkine Institute for Training, Research and Testing, Mumbai
- Haldirams Manufacturing Pvt. Ltd., Gurgaon
- Helix BioGenesis, Noida
- IBAB, Banglore
- ICMR, New Delhi
- Icon Hospitals, Hyderabad
- IFF India Pvt. Ltd., Chennai
- IIT Guwahati
- Indah Kiat, Indonesia
- Indian Institute of Science Education and Research, Bhopal
- Indian Institute of Technology, Kharagpur
- Indian Spinal Injuries Centre, New Delhi
- Indira Gandhi Govt. General Hospital & Post Graduate Institute, Puducherry
- Institute Of Genomics And Integrated Biology, CSIR, New Delhi
- Institute of Genomics and Integrative Biology, Delhi
- Institute of Liver and Biliary Sciences, New Delhi
- Institute of Nuclear Medicines and Allied Sciences, New Delhi
- Institute of Post-Graduate Medical Education & Research, Kolkata
- Intas Pharmaceuticals Ltd., Ahmedabad
- Integrated Bioprocess Lab, SRMIST
- Intron Life Sciences, Hyderabad
- IPCA Laboratories Ltd., Mumbai
- Jadavpur University School of Bioscience & Engineering, Kolkata
- Jaywin Remedies Pvt. Ltd., Ahmedabad
- JIPMER, Puducherry
- Jiwaji University, Gwalior
- Kausikh Therapeutics, Chennai
- Keezhallur Water Treatment Plant, Kerela Water Authority
- King Institute Of Preventive Medicine, Chennai
- Levitas Pharmaceuticals Pvt. Ltd., Kerala
- Life Care Products, West Bengal
- Lifecell International Pvt. Ltd., Chennai
- Madras Diabetes Research Foundation, Chennai
- Madras Medical College, Chennai
- Madurai Kamaraj University, Tamil Nadu
- Malabar Regional Co-operative Milk Producer's Union Limited, Ernakulam
- Marina labs, Chennai
- MaxCure Hospitals, Madhapur
- Medical College Hospital, Kolkata
- Miot International Hospital, Chennai
- Mitcon Biopharma, Pune
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- Molecular Cell Biology Lab, SRM IST
- Mondelez India Foods Private Limited, Malanpur Unit
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- National Brain Research Centre, Haryana
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- NIRT, ICMR, Chennai
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- Nthrys Biotech Labs, Hyderabad
- Osmania University, Hyderabad
- Pasteur Institute of India, Coonoor
- Pfizer, Chennai
- Phoenix Hospital & Diagnostic Centre Pvt. Ltd., Chennai
- Phycospectrum Education of Research Centre, Chennai
- Plant Biology Lab, SRM IST
- Poonga Biotech Research Centre
- Presidency University, Kolkata
- Qatar Fertiliser Company, Qatar
- Quickmed Biotech, Dehradun
- R.G. Kar Medical College, Kolkata
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- Reliance Life Sciences Pvt. Ltd., Mumbai
- Resolute Catering Services L.L.C, Dubai, UAE
- Retort Laboratories, Chennai
- S.R. Diagnostic Centre, Chennai
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Patents

National Patents:

- Ramani Kandasamy, G. Sekaran, Maseed Uddin, R. Muneerwari, K.V. Swathi, B.S. Lakshmi, R.Rajarubini: A BIOSURFACTANT NANO-FERRIC IONOSPHERE SCAFFOLD AND A PROCESS OF SYNTHESIS. (Patent Number: 202041044221)
- Ramani Kandasamy, G. Sekaran, K.V. Swathi, R. Muneeswari: BIPHASIC BIOSURFACTANT-BIOCATALYST CONJUGATED MAGNETIC NANOMETAL OXIDE COMPOSITION FOR DEGRADATION OF HYDROCARBONS AND VEGETABLE OILS DISPERSED IN WASTES. (Patent Number: 202041020576)
- Samuel Jacob B., Sadukha Shreya, Parekh Ayushi, Tripathi Saloni, Nag Sunaina, Pani Amish: A CONGLOMERATED BIOPLASTIC AND A PROCESS OF PREPARATION THEREOF. (File no. 202041039812)

International Patent:

- Ramani Kandasamy, G. Sekaran, Maseed Uddin, R.Muneerwari, K.V. Swathi, B.S. Lakshmi, R.Rajarubini: A BIOSURFACTANT NANO-FERRIC IONOSPHERE SCAFFOLD AND A PROCESS OF SYNTHESIS. (Patent Number: PCT/IB2020/061891)

Publications

- ·Sudhakar, S., Chandran, S. V., Selvamurugan, N., & Nazeer, R. A. (2020). Biodistribution and pharmacokinetics of thiolated chitosan nanoparticles for oral delivery of insulin in vivo. International journal of biological macromolecules, 150, 281-288.
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