



Gyanav - Biotechnology - Newsletter

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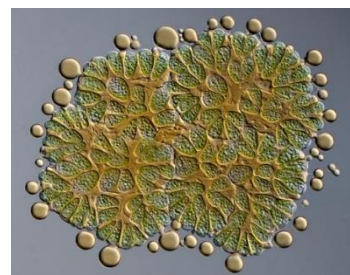
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ALGAE - THE NATURAL WONDER

Algal species are a marvellous entity in the ecosystem. From thriving in various habitats to producing half of the oxygen content in the atmosphere, they have many essential applications in the environment.



World's most ancient Green seaweed:

Proterocladus antiquus discovered in China, may be the oldest green algae ever found. It is quite small in size, measuring just 0.07 inches in length, and can produce oxygen through photosynthesis. This is one of the first fossilised species discovered that help in establishing that algae were present before a billion years, in the near Paleoproterozoic era. The sea weed was said to have multicellular thallus with branching filamentous structures, which proved it to be an erect, epibenthic seaweed. Based on various studies, the characteristic large siphonous cells and unique method of branching placed them with a group of green seaweed called Siphonodaleans. This surpasses the previous record of a fossilized green algae which was about 800 million years old and has played a major role in calibrating the molecular clock. The green seaweed was said to be habitat of the ocean bed and it had reportedly played an important ecological and geobiological role in the ocean ecosystem well before aquatic photosynthetic plants.

Algae- the Natural Photo protectant:

The ability to thrive and evolve in extreme temperatures has resulted in amazing characteristics of algae which are a wonder to admire and use. *Chlamydomonas nivalis* is a snow loving alga which is present in the polar and mountainous regions. It exhibits a phenomenon called Watermelon Snow, where the snow is red or pink in colour and it even smells somewhat sweet and fruit-like. The alga is green in colour but contain a secondary red pigment called a carotenoid. It lays dormant during winter months but during warmer summer months, the alga “activate” their carotenoid as a protective barrier, or sunscreen, against the sun’s damaging UV radiation, and become red. Even though the fact having a natural built in sunscreen sound amazing, it is reported that the phenomenon leads to melting of glaciers and increase in level of heat in the atmosphere, thus altering the climate model



Dr. G. K. Saravanan
Asst. Prof., PG Dept. of
Biotechnology

GROW - Get Ready for Opportunities to Work

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Nobel Prize in Physiology or Medicine 2023



Katalin Kariko and Drew Weissman have shared the Nobel Prize in Physiology or Medicine, 2023 for their "discoveries regarding nucleoside base modification that enabled the development of effective mRNA vaccines against COVID-19."

Lecture on "Making your career with medical devices" - July 01, 2023

The PG Department of Biotechnology, Dwaraka Doss Goverdhan Vaishnav College, in association with the Institution's Innovation Council, DDGDVC organized Career Guiding Program-Opening venues in Biotechnology on 01/07/2023. Mr.Siva Nagesh delivered the lecture on "Making your career with medical devices". He threw light on the role of medical devices in health care services. He delivered the innovations and technologies that health care professionals need every day. The speaker highlighted the role of medical devices in helping healthcare professionals in fields like orthopedics, neurology, cardiology, minimally invasive surgery, wound management and women's health.



Career Guidance Program : "Explore Education Abroad – December 27, 2023

Placement Cell organised the Career Guiding Programme. Students pursuing a B.Sc. in biotechnology took part in the occasion. Mr. H. Abdul Navas Presented the talk on "Explore Education Abroad". He shed light on how international universities contribute to the growth of employment opportunities. He gave a list of universities that provide postgraduate courses in life sciences in the UK, the USA, Australia, Ireland, the Netherlands, Canada, and other nations. The speaker focused on tests like the IELTS, OET, TOEFL, PTE, GMAT, GRE, SAT, ACT, Spoken English, and others that are required for entrance to colleges abroad. He gave an introduction to the exams that students must take in order to continue their education overseas.



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SIP-Student Induction Program

Under graduate students induction program July 10, 2023

The “DEEKSHARAMBH Student induction Program 2023 -2024” was conducted by the IQAC & PG Department of Biotechnology between 03.7.2023. to 10.7.2023. The day began with a Welcome note to freshers of B.Sc. Biotechnology by Dr. M.D. Balakumaran, Head, and introduction of faculty members in the Department. He gave insights on challenges and opportunities in Biotechnology, types and scopes of Biotechnology. On Day 2, Dr.P.Indumathi, Asst. Professor, PG Dept. of Biotech, DDGDVC. She spoke on the significance of Personal improvement and Positive attitude in life. The session on Day 3 began with the topic Strive for Values presented by Dr. L. Inbathamizh, Asst. Professor, Dept. of Biotech, Sathyabama University. He spoke how a person must abide by moral ethics in every stage of life, be it happy or sad phase. The fifth day began with a talk on Out of the Box – Role of microbes in future entrepreneurship by Mr.E.Prabhu, Head ,R & D Industrial Microbiologist, V-organic World, Chennai. He gave a detailed explanation about present and future scope of biotechnology.



Post graduate students induction program

IQAC organised an induction program for Post graduate students . On day one, Mr. P. Viswanathan, the chairman of the Kancheepuram branch of the Nippon Chamber of Commerce and Industry and a former member of parliament for the Lok Sabha, gave the chief guest address. Sir's speech was highly instructive and helpful for those interested in studying Japanese and looking for work in that country. Mr. Satish Rajarathnam, Senior Vice President & Global Head, gave the guest of honor speech. He was interactive and covered topics including employment markets, innovative thinking, and how to produce currency influx. On Day 2 Dr. M.D. Balakumaran, Assistant Professor and Head of the PG Department of Biotechnology, gave a welcoming speech and a department introduction. Followed by the department faculty introduction and various sessions about Blooms Taxonomy, Holistic Education, MOOC & NPTEL, Placement and Value added course, and Setting goal and Aspiration delivered by department faculty members. The last session was ended with the Techno saviour club introduction and the games arranged by the volunteers of the club.



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Nobel Prize 2023 in Physics



The Nobel Prize 2023 in Physics has been jointly awarded to **Pierre Agostini, Ferenc Krausz, and Anne L'Huillier** for experimental methods that generate attosecond pulses of light for the study of electron dynamics in matter.”

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In The Spotlight

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Nobel Prize 2023 in Chemistry



For the discovery and synthesis of quantum dots, **Moungi G. Bawendi, Louis E. Brus, and Alexei I. Ekimov** have been given the Noble Prize in Chemistry 2023. These nanoparticles have numerous uses in industries like electronics, cutting-edge surgery, and quantum computing.

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Guest Lecture & Technosaviour Club Investiture Ceremony - August 04, 2023

Guest lecture on “Essential employability skills for the emerging clinical laboratory workforce” & Technosaviour Club Investiture Ceremony of Technosaviour club on 04.08.2023 in Vallabcharya Auditorium. Our Principal Dr. S. Santhosh Baboo congratulated the Department for organizing an informative Guest Lecture to students & technosaviour club volunteers and felicitated the Chief Guest of Investiture Ceremony Dr. Sara Chandy (Director& Researcher), The Childs trust medical research foundation, Kanchi kamakoti Childs trust hospital, Chennai delivered a lecture on “Essential employability skills for the emerging clinical laboratory workforce” and shared about different aspects of job training and expectations as a researcher. She shared her own life experiences regarding laboratory work systems and criteria through which they screen a candidate for job offering.



Training Program on Interpersonal Skills – Intensate, August 23 & 24, 2023

Training programme was held on 23.08.2023 and 24.08.2023. S. Padmanaban, founder of the SARVAM Trust, state-level master trainer for the State Institute of Rural Development, and legal consultant for the ILLAYUGAM trust, Matram Trust, and Samam Trust, took over the programme. The speaker used a variety of interpersonal skills modules to encourage the students, including decision-making and stress management for I PG students and motivation and problem-solving for III UG students. Speaker also highlighted the value of critical thinking and emotional intelligence for II PG students and self-awareness and time management for I& II UG students. The speaker also imparted knowledge to the students by talking about his personal experiences and offering guidance on overcoming the many obstacles that arise in life.



In The Spotlight



Awareness Talk on Polycystic Ovarian Syndrome (PCOS) - September 12, 2023

The session was led by an eminent speaker Dr. Priya Kannan, M.B.B.S., M.Med, MCE (Australia). Director of Embryology, Garbba Rakshambigai Fertility Centre, Chennai. The central theme of the session was to create awareness on PCOS. The speaker talked about the common causes of PCOS, which include numerous cystic regions on the ovaries, excess androgen, irregular or absent periods, and insulin resistance. She provided statistics data on the age groups and total number of patients for each month. Through addressing symptoms and altering lifestyle choices that contribute to PCOS, she raised awareness about how to support and enhance the lives of people impacted by the condition

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Noble prize in medicine



Har Gobind Khorana (9 January 1922 – 9 November 2011) was an Indian-American biochemist. While on the faculty of the University of Wisconsin–Madison, he shared the 1968 Nobel Prize for Physiology or Medicine with Marshall W. Nirenberg and Robert W. Holley for research that showed the order of nucleotides in nucleic acids, which carry the genetic code of the cell and control the cell's synthesis of proteins.

National Level Workshop on “Essentials Molecular Techniques”- NLEMT September 19 & 20, 2023

The National Level Workshop on Essential Molecular techniques- NLEMT 2023, was organized by the PG Dept. of Biotechnology, DDGDVC in association with Indian Science Congress Association, Chennai Chapter during 19th & 20th September, 2023. The Chief Guest, Dr. Gayathri Gunalan, Research Officer (Biochemistry) - S II, Siddha Regional Research Institute, (Central Council for Research in Siddha), Ministry of Ayush, GOI, Pondicherry delivered the keynote lecture on “APPLICATIONS OF MOLECULAR TECHNIQUES IN LIFE SCIENCE RESEARCH”. She has given a detailed note on the techniques used widely in molecular biology research such as gene modulation, cloning, recombinant DNA technology. On day 2 (20.09.2023) keynote lecture was delivered by Dr. T.G.Nithya, Prof., Dept. of Biochemistry, FSH, SRM institute of Science & Technology, Kattankulathur, Chennai On “Molecular basis of Cancer Biology” who gave us insights on basics of molecular biology.



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In The Spotlight

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Dr. Renu Swarup

Indian geneticist and former Secretary, Government of India, formerly heading the Department of Biotechnology (DBT), Ministry of Science and Technology. During her tenure as Secretary of the DBT, Dr. Swarup played a key role in driving the growth and development of the biotech sector in India.

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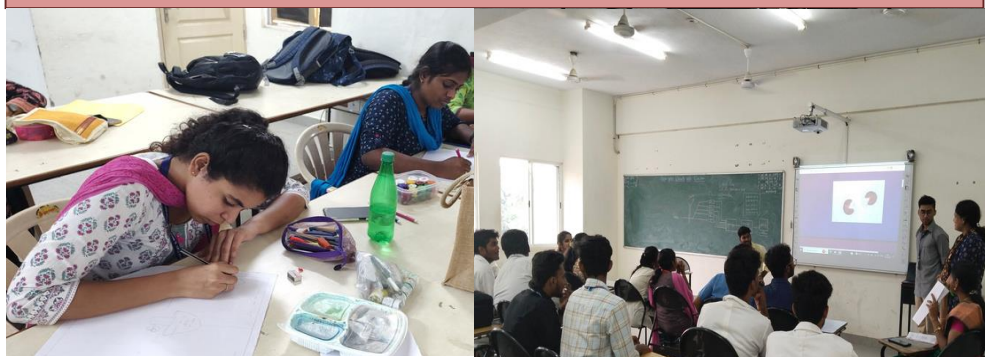
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World Fungi Day – October 03 & 04, 2023

This event is organised in collaboration with the Mycology Society of India. The competitions were held to encourage participants' innovative ideas and thoughts about the function of fungi in ecosystems. Additionally, the events were chosen so that the student body would learn the fundamentals of fungi and understand both its advantages and disadvantages for humans. The judges were Dr. Pushparani, an assistant professor in the department of biochemistry at DDGDVC, and Dr. Ezhumalai, an assistant professor in the department of botany at DDGDVC. A total of 56 students took part in the competition; three were chosen as the winners of each event and were suggested to receive awards from MSI during its annual conference, which will take place in the University of Madras on December 16 and 17, 2023.



Invited Talk on Entrepreneurial Culture - Invited Talk on Entrepreneurial Culture - November 28, 2023

Invited talk on “Entrepreneurial Culture -A Key to Progressive Growth” on November 28, 2023, at 11.00 am at Seminar Hall I, Main Block for the students of Biotechnology to achieve proficiency in various aspects of entrepreneurial culture.

Invited talk started with the inauguration, followed by the speaker introduction to the participants, and then the session was taken over by the speaker Ms. J. Vidya, Founder & Proprietrix, NikMed Medical Technologies, Chennai. The speaker gave a warmup activity for the students to know each other present in the hall focusing on people-to-people connectivity which is the baseline of entrepreneurship.



Memorandum of Understanding

Department has signed MoU with Department of Biotechnology, Sathyabama Institute of Science and Technology on 30.10.2023. Dr. T. Sasipraba, Vice Chancellor, Faculties (Dr. V. Ramesh Kumar, HOD and Dr. L. Inbathamizh, Assistant Professor, Department of Biotechnology) from Sathyabama University and Faculties of Department of Biotechnology.

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Dr. Soumya Swaminathan
Chief Scientist at the World Health Organization, who is leading efforts to combat COVID-19 and other global health threats. She leads the Science Division, which ensures that WHO harnesses the power of science and innovation to improve global health and deliver impact at country level.

Department signed MoU with Nikmed Medical Technologies on 28.11.2023. Dr. S. Santhosh Baboo, Principal, DDGDVC and Ms. J. Vidya, Proprietrix, Nikmed Medical Technologies



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Linguistic Corner

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Dr. Preetha Reddy
Vice Chairperson of
the Apollo Hospitals
Group, one of India's
largest healthcare
companies. She has
played a key role in
the development
and expansion of the
company's biotech
division, which
focuses on the
development of
innovative therapies
for a range of
diseases

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நீ வருமுன்னே உள்ளம் பதைபதைக்கும்.
நீ வரும் வேலையிலோ மனம் துள்ளும்.
நீ வந்து விட்டால் புல் வைத்தும் ஸ்தம்பித்து நிற்கும்.
நீ என்னை பார்த்து விட்டால் முகம் வெட்கத்தில் குணியும்.
நீ அணைக்கையில் ஏதேதோ நடக்கின்றது.
நீ வருடுவதிலே எல்லாம் சிலிர்க்கின்றது.
நீ வரும் வழியோ உனக்குமே தெரியாது.
நீ வரவேயில்லை என்றாலும் துவண்டு விடுவேன்.
சேராத வரிகளா ?
இல்லை பாடாத பாடலா ?
மதராகம் மழையும்.

Sarath
II M.Sc., Biotechnology

DNA

I Refuse to be Who you are,
I am no longer carbon copy of you,
But I am single stranded like RNA,
Eventhough you are double stranded,
We may be similar,
But we will never be same like DNA.

T.R Raghavi
II M.Sc., Biotechnology

CHEMISTRY

Every poet is an Iron,
Not an atom, even not a molecule,
But with freed Electrons,
Then comes in search of Neurons,
Where they join with soul,
To feel Zeal of Wonderful words.

C.K Madhumitha
I M.Sc., Biotechnology

THE SPLICE OF LIFE

ecode all the persisting issues
Logically, Theoretical & Practical.
Replacing all our old-rust belt technologies,
By paving roads to creativity,
We sparkle some speckles of curatives to all the prevailing sufferings,
Sustaining our biological roots,
Accounting with the fundamentals of DNA,
Tagging as "Far advanced than a computer's memory"..
Holds on to all our fundamental gene cache!

Divya. R
II M.Sc., Biotechnology

TEARS

A woman's tears dissolve,
Men's strong iron minds ,
Like Nitric acid dissolves iron.

S Sivaneshwaran
II B.Sc Biotechnology

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Anuradha Acharya
is an Indian entrepreneur. She is the founder and CEO of Ocimum Bio Solutions and Mapmygenome. She was awarded Young Global Leader by the World Economic Forum in 2011.

Breakthroughs in RNA technologies in 2023

RNA advancements span across several areas, including vaccine development, rare disease treatment, and optimization for broader medical applications.

Building on the success of COVID-19 vaccines, companies like Moderna have continued to advance mRNA-based vaccines for various diseases, including respiratory illnesses. This advancement showcases the potential of mRNA vaccines beyond COVID-19, highlighting their role in combating infectious diseases.

Another interesting development is the use of RNA technology in treating rare diseases. Companies like Alltrna are exploring the potential of transfer RNAs (tRNA) to treat a wide range of rare diseases. This approach leverages the unique biology of tRNAs and represents a novel direction in the field of RNA therapeutics.

Furthermore, there have been efforts to optimize mRNA for the discovery of transformative medicines. The challenges of using mRNA as a medicine, such as stability, cellular uptake, expression levels, and immunogenicity, are being addressed to enhance the efficacy of mRNA-based treatments.

Pooja S.P
II B.Sc Biotechnology

BIOTECHNOLOGY - THE SPLICE OF LIFE



We decode all the persisting issues
Logically, Theoretically & practically.
Replacing all our old-rust belt technologies,
By paving roads to creativity,
We sparkle some speckles of curatives to all the prevailing sufferings ,
Sustaining our biological roots,
Accounting with the fundamentals of DNA ,
Tagging as "Far advanced than a computer's memory"..
Holds on to all our fundamental gene cache !

Divya. R
II M.Sc., Biotechnology

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Kiran Mazumdar-Shaw

Founder, Chairman, and Managing Director of Biocon, one of India's largest biotech companies. She is known for her pioneering work in the field of biotechnology and has made significant contributions to the development of innovative therapies for cancer and other diseases.

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Rushika Sri D
II M.Sc., Biotechnology



Lakshmi Priya -
II M.Sc., Biotechnology



Retheshaa A R
I M.Sc., Biotechnology

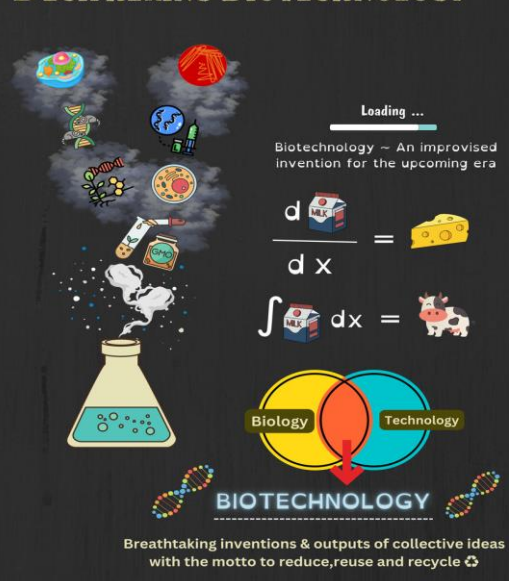


R Mohana Shree
I M.Sc., Biotechnology



Sree Arthi B-
II M.Sc., Biotechnology

DECIPHERING BIOTECHNOLOGY



Divya. R
II M.Sc., Biotechnology

Industrial visit



Coastal Clean Up -Besant Nagar Chennai- July 15, 2023

In collaboration with the Indian Army and the Trisakha Foundation, the Postgraduate Department of Biotechnology hosted an Extension Activity for third-year Undergraduate students. The cleanup effort cleaned up the Besant Nagar beach's surrounds and raised awareness among the public about the need to maintain a clean beach area, serving both educational and environmental purposes.

Students enthusiastically participated in beach cleanup efforts and assisted in clearing rubbish from the shores. Additionally, they run a programme to encourage people to properly use trash cans. The event was supported by Swachhata Pakhwada and Bharat petroleum. The students gathered a lot of rubbish and plastic coverings.



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Virtual and augmented reality (VR & AR)



These systems work across various medical fields. For instance by assisting surgeons during delicate operations or helping patients recovering from injury. VR and AR allow people to examine 3-D representations of the human body and its various parts.

CanBrs Therapeutics Private Limited IIT Madras Research Park- August 23, 2023

PG department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College in association with Institution Innovation Council, DDGDVC organized a visit to CanBrs Therapeutics Private Limited IIT Madras Research Park-Spark-up Event Igniting Start-up Excellence-All about Innovation and start-up on 21st August, 2023. Dr. Balu Ranganathan, CanBrs Therapeutics, IITM Research Park gave a brief introduction about the start-up ideas and interacted with students. Followed by session on N.R.Mythreyi., Technologist, CanBrs Therapeutics, IITM Research Park about Indian Start-up Ecosystem and discussed about idea on various funding options for a start-up.

Followed by the session on product development and Intellectual property. Dr. Vidya, Women Entrepreneur delivered a lecture on her start-up story. Finally, students visited various incubation centre at IIT-M Research park.



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Technosaviour- Biotechnology Club

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Poster making - Prize Winners

Ist Prize
Padmapriya,
II B.Sc.,
IInd Prize
Lavanya,
I B.Sc.,
IIIrd Prize
Yogesh Kanna,
I B.Sc.,
Jayashree,
I B.Sc.,

Slogan writing - Prize Winners

Ist Prize
Ramya Sri Varshini,
I B.Sc.,
IInd Prize
Divya Sharma,
I B.Sc.,
IIIrd Prize
Nithya Shree,
I B.Sc.,

World Nature Conservation Day- July 07, 2023

“World Natural Conservation Day” under the theme of “Forests and Livelihoods: Sustaining People and Planet” on 28/07/2023 through offline mode for I UG and II UG students. This day is mainly to spread awareness among students regarding the protection of nature and biodiversity for a healthy environment. Competition such as Poster Making and Slogan Writing was conducted on the theme of Forests and Livelihoods: Sustaining People and Planet.



World Entrepreneur’s Day & Akshay Urja Diwas - August 21, 2023

Technosaviour club, PG Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College in association with Institution Innovation Council, DDGDVC organized an Event on “World Entrepreneur’s Day” & Akshay Urja Diwas (Renewable energy day) under the theme of harnessing the Nature Power on 21st August, 2023. Two events were conducted Ideation with the theme of showcasing greener energy renovation and model-making with the theme of Ideate for a cleaner planet. Under graduate and post graduate students actively participated in the event and their views were distinct, and student presented the innovative ideas in the ideation event. Students displayed the innovative model such as solar drone, utilization of biomass, solar, wind, thermal power for energy production and combination of solar and wind model.



Technosaviour- Biotechnology Club



International Millet Year - September 13, 2023

On September 13, the Technosaviour Club and the Biotechnology Association of Dwaraka Doss Goverdhan Doss Vaishnav College held a tournament titled "International Millets Year 2023 - Millet Delight (Creating awareness on nutritive value of Millets)." "Eat Right Millets! will be the theme of the PG Department of Biotechnology on December 1, 2022, at 12:30 p.m. Therefore, the purpose of the "Millet Delight competition" was to raise awareness of millets. The students were allowed to imaginatively present their ideas on the significance of eating a diet based at least two millets because of their nutritional advantages. By taking part in this interdepartmental club activity, the students demonstrated their creativity and acknowledged the benefits of cereal-based meals and millets. There were six students that received prizes out of the 54 students who competed. Participants feedback was collected and all the participants were provided with certificate.



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Model Making - Prize Winners

Ist Prize

Mohammed Aboobacker
- II M.Sc., Suryanarayanan
- II M.Sc.,
Kuralarasshan - I B.Sc.,
Akash.S - I B.Sc.,

IIInd Prize

VishnuPriya . A - II B.Sc.,
Shobana. JD - II B.Sc.,

IIIrd Prize

PadmaPriya - II B.Sc.,
Shrijha. S - II B.Sc.,

Ideation - Prize Winners

Ist Prize

Sarath . P -II M.Sc.,

IIInd Prize

Porchselvam.C.S - I
M.Sc.,

Abilash - I M.Sc.,

IIIrd Prize

Shri Devi - I B.Sc.,

Students Achievements

- Sai Abhimaan.S (23E4811), I M.Sc., Biotechnology received Best Oral Presentation Award at National Conference held at AMET University
- SARATH.P (22E4803), II M.Sc., Biotechnology received Third Prize at International Conference on "Biotechnological Emergence in Science and Technology SRM University
- SWETHA.J (22E4819), II M.Sc., Biotechnology received Ind Prize at National seminar on thrive for safe food new and novel technologies, organized by Dept of Microbiology, DDGD Vaishnav College
- DIVYA.R (22E4801), II M.Sc., Biotechnology received Ist at National seminar on thrive for safe food new and novel technologies, organized by Dept of Microbiology, DDGD Vaishnav College,
- GOWRI DEVI.V (22E4825), II M.Sc., Biotechnology received Ist Prize at National seminar on thrive for safe food new and novel technologies, organized by Dept of Microbiology, DDGD Vaishnav College

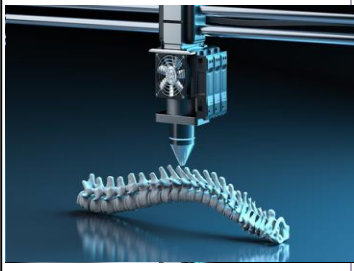
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Technosaviour- Biotechnology Club

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3-D Bioprinting



3-D printing was one of the major achievement. By using living cells, this technology can create various human body parts such as heart valves, skin, and cartilage for use in medicine. Also Bioprinting has the potential to create drugs and pills.

Intercollegiate Event- December 15, 2023

An intercollegiate event, “TECHNOSAVIOUR 2023” under the Theme of “Eco-Innovation & Sustainable Development” was organized on 15.12.2023 exclusively for the students of life sciences in Dwaraka Auditorium. The event was inaugurated by chief guest Ms. Geethanjali Radhakrishnan, Founder, CEO & MD, Adiuvo diagnostic private limited. She emphasized the importance of entrepreneurship among the students, sparking their interest in starting their own businesses ventures. Her real-life experiences in developing ground-breaking solutions in the field of opto-electronics, with a particular emphasis on early disease detection tailored to low-resource settings set the tone of the event. Following the inauguration, various competitions were held and judged based on various parameters. Overall winner trophy was received by Loyola College, Chennai and Runner-up trophy by Women’s Christian college, Chennai. The event has provided a platform for the students to interact well and upgrade their talents and secure new ideas for making the country better through scientific innovations.



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Alumni

My PhD Journey: A Tale of Challenges and Triumphs

I am delighted to share the incredible journey that led me to the successful completion of my post graduation in DDGD Vaishnav college. This academic pursuit has been a transformative experience filled with challenges, growth, and moments of profound learning. Navigating through the intricate landscape of literature reviews, methodologies, and data analysis, I discovered the power of resilience and perseverance. The support and guidance of my advisors, mentors, and peers were invaluable in overcoming obstacles and refining my research. One of the most rewarding aspects of this journey was the opportunity to engage with the scholarly community. Conferences, seminars, and collaborative projects enriched my understanding and allowed me to contribute meaningfully to the academic discourse in Biotechnology. Of course, no academic journey is without its share of late nights, self-doubt, and revisions. Each setback became a stepping stone towards greater clarity and precision in my work. The camaraderie of fellow researchers provided a supportive network, fostering an environment of shared knowledge and encouragement. As the pages of my dissertation took shape, so did my sense of accomplishment. The defense day marked not only the culmination of years of hard work but also the beginning of a new chapter I extend my heartfelt gratitude to everyone who played a role, big or small, in this transformative journey. Your support has been instrumental in shaping the researcher I am today. I look forward to continuing this intellectual odyssey and contributing to the ongoing pursuit of knowledge in Biotechnology.

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Teja Manda
Ph.D. in Genetics and
Molecular Biology
Nanjing Forestry
University, China

Journey at DDGDVC

During my five-year journey at DDGDVC, had a fabulous environment that helped me to carry a firm spirit throughout. My wandering time at DDGDVC was an unforgettable day, filled with golden memories. The Department of Biotechnology was a mixed-emotional paradise that taught me many valuable life lessons, shaped me into an ethical individual, and empowered me to reach my goals while remaining stress-free regardless of any situation. The academic part of life nurtured and encouraged me to take the first step in my research career and become one the best researchers in the future by exposing me to different insights about recent trends in science and technology through various conferences, workshops, value-added courses, industrial visits, alumni meet, etc. Being a part of the Department Student Council and serving as President of the Technosaviour Club associated with the Department of Biotechnology, feel utmost glad for the departmental extra-curricular activities that helped us to explore and inculcate our hidden talents and life skills. This position paved the way to become a better human and to organize things more relatively in both my personal and professional life. I am extremely grateful to the overall administrative committee of my department for their unwavering support and motivation throughout my academic journey. They have always been a motherly figure to me. I am proud to state this experience has qualified me to pursue my Ph.D. at Nanjing Forestry University, China.



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Ph.D. in Genetics and
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Achievements

Faculty Publications

Dr. M.D. Balakumaran

Isolation of carminic acid from essential oil, its characterization and applications towards replacing toxic colourants used in soaps, South African Journal of Chemical Engineering, Volume 47, 2024, Pages 28-38, ISSN 1026-9185, <https://doi.org/10.1016/j.sajce.2023.10.007>.

Dr. G. Shoba

Characterization of Vancomycin Resistant Enterococci and Drug Ligand Interaction between vanA of E. faecalis with the Bio-Compounds from Aegles marmelos. J Pharmacopuncture. 2023 Sep 30;26(3):247-256. doi: 10.3831/KPI.2023.26.3.247. PMID: 37799618; PMCID: PMC10547814.

Faculty as Resource Person

Dr. Pavithra M, Resource Person in National Workshop on Hydroponics organized by SRM Univeristy, Ramapuram on July 14, 2023

Dr. M.D.BalaKumaran, Chair Person in 1st National Conference on Biomaterials in Health Care, Sri Balaji Medical College & Hospital, Chennai on August 18.08.2023 & 19.08.2023

Dr. M.D.BalaKumaran served as Doctoral Committee Member, Bharath Institute of Higher Education and Research on September 08, 2023

Dr. G. K. Saravanan has served as Judge at International Conference organized by SRM Arts and Science, Katankulathur on October 12 & 13, 2023

Faculty Awards and Recognition

Dr. M.D.BalaKumaran received SRM-ICBEST'23 - Young Scientist Award on International Conference on "Biotechnological Emergence in Science and Technology" (ICBEST 2.0), organized by SRMIST on October 06, 2023.

Dr. M.D. Balakumaran, Head & Assistant Professor, Dr. Shoba Gunasekaran, Ms. Kiran Sharma B, Assistant professor, Department of Biotechnology, DDGDVC have received Trends in Sciences Best Paper Awards 2023" along with Mr. Ramya Ranjan Nayak S P, (M.Sc. Biotechnology, Batch 2019-2021), and cash reward of 50,000 THB for the publication "In Silico Molecular Interaction Analysis and Pharmacokinetic Profiling of Flavonoids from Catharanthus roseus (Flower) Against TXNIP Protein" after a thorough evaluation of the originality and significance of the papers, citations, downloads, view count, etc., from Trends in Sciences Journal Walailak University, Thailand. Student Mr. Ramya Ranjan Nayak S P, (M.Sc. Biotechnology, Batch 2019-2021) awarded with Rs. 20,000/- for his contribution towards the work.

Editorial Members

- Dr. P. Indumathi, M.Sc., M.Phil., Ph.D., Assistant Professor, PG Dept. of Biotechnology
- Dr. A. Sivaranjini, M.Sc., M.Phil., Ph.D., Assistant Professor, PG Dept. of Biotechnology
- Ms. S. Uma, M.Sc., M.Phil., SLET., Assistant Professor, PG Dept. of Biotechnology
- Dr. R. Ashwini, M.Sc., M.Phil., Ph.D., SET., Assistant Professor, PG Dept. of Biotechnology
- Dr. M. Pavithra, M.Sc., M.Phil., Ph.D., Assistant Professor, PG Dept. of Biotechnology
- Dr. G.K. Saravanan, M.Sc., Ph.D., Assistant Professor, PG Dept. of Biotechnology
- Dr. N. Senthil Kumar, M.Sc., M.Phil., Ph.D., Assistant Professor, PG Dept. of Biotechnology
- Ms. K. Nithya, M.Sc., M.Phil., Guest Lecturer, PG Dept. of Biotechnology
- Ms. B. Kiran Sharma, M.Sc., M.Phil., Guest Lecturer, PG Dept. of Biotechnology

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*Personalized
Medicine*



With personalized biotechnology, medical professionals can analyze genetics to identify medical risks in patients. By basing medical innovation on genetic sequencing, doctors develop unique, tailor-made health solutions.

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