



Gyanav - Biotechnology - Newsletter

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Dept. of Biotechnology

Dept. of Biotechnology

VISION:

Our vision is to produce competent Biotechnologists with profound expertise, providing sustainable competitive edge to present society with entrepreneurial skills.

MISSION

➤To inculcate original and novel advanced methodologies in the field of biotechnology

➤To generate opportunities for innovations in the field of biological research.

➤To expand the scope of Industry - Academia interaction towards commercialization of bioproducts.

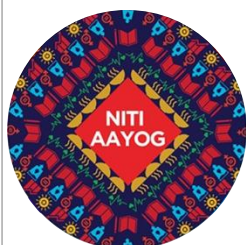
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SDGs - Sustainable Development Goals

United Nations Sustainable Development Goals (SDGs), also called Global Goals, were adopted in 2015 as a universal call to action for ending poverty, protecting the planet, and ensuring all people enjoy peace and prosperity by 2030. There

are 17 Sustainable Development Goals in total, and they recognize that action in one area will influence outcomes in others, and that development should balance economic, social, and environmental sustainability.



NITI Aayog is tasked with overseeing the adoption and monitoring of SDGs in the country as well as promoting competition and cooperation among States and UTs. The challenge NITI Aayog faces is not only to collect data on SDGs periodically, but also to proactively achieve the goals.

The MoSPI has already initiated efforts to create indicators which reflect the SDG goals and targets in parallel with the Ministries. SDGs refer to all key development sectors, such as education, health, sanitation, employment, energy, infrastructure, and the environment, and they set out time-bound goals for achieving them. It is imperative for India to meet these targets, both from a global perspective and for the sake of its own cause. Across the country, progress has already been made in recent years; for the SDGs to be fully realized, the pace of progress needs to be modulated based on evidence.

In recent years, significant progress in many parts of India has already been made, yet progress must be accelerated in an evidence-based way. In the federal structure, Indian states and Union territories (UT) are key players in implementing the SDGs and have made progress on most of the targets. In its role as the nodal institution for SDGs, NITI Aayog has sought to encourage and support collaboration among the various governmental entities.

THE GLOBAL GOALS



Recently, NITI Aayog released the 3rd edition of the SDG India Index & Dashboard 2020-21.

SDG INDIA
Index & Dashboard 2020-21
Partnerships in the Decade of Action

Science and Development

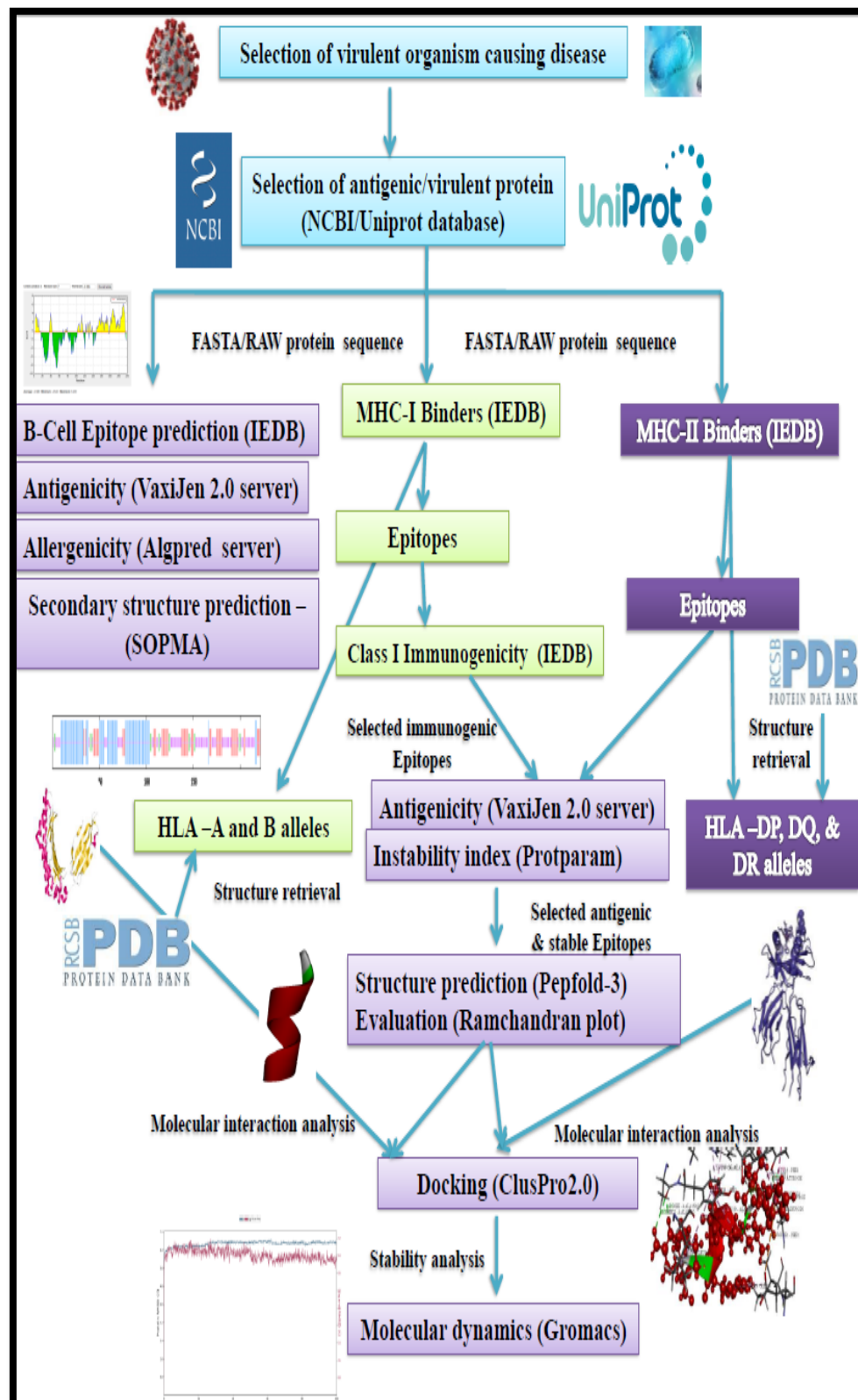
IMMUNOINFORMATIC APPROACH TO DESIGN A MULTIEPITOPE VACCINE

-Ms. G. Shoba, Guest Lecturer, Dept. of Biotechnology, DDGDVC

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We cannot solve problems with the same thinking we used to create them.

-Albert Einstein



K. Eric Drexler

The basic parts, the start-up molecules, can be supplied in abundance and don't have to be made by some elaborate process. This immediately makes things simpler.

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Science and Development

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*No great discovery
was ever made
without a bold
guess.*

- Isaac Newton

Antibiotics to cure coral disease

Researchers report the effectiveness of amoxicillin against tissue-eating disease found in corals.

[read
more.....](#) 

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SECRETAGOGIN PROTEIN IN DIABETES

-Dr. R. Ashwini, Assistant Professor, Dept. of Biotechnology, DDGDVC

Secretagogin is an EF hand Ca^{2+} binding protein first identified by Wagner *et al.* (1998) in pancreatic islet β cells while working with insulinoma cells. They have identified a unique mRNA sequence that encoded a novel Ca^{2+} binding protein related to human and murine calbindin and calretinin and named it as “Secretagogin (SCGN)” since it facilitates the release of insulin.

Sequence analysis of this proteins showed that it has six tandem repeats of an EF hand with a molecular weight of 32 KDa. Since its discovery several works have been performed in this protein which revealed its plentiful biological functions. The protein SCGN is involved in potassium –chloride stimulated calcium flux and cell proliferation. The role of SCGN in release of stress hormone corticotrophin is utilized in treating stress related ailments such as depression, burn or post traumatic stress disorder and chronic stress reaction caused due to pain.

They are used to interdict neurodegeneration in Alzheimer’s disease. In addition, they are also used as markers for brain trauma. A recent article in The New Indian Express on 22 November, 2020 states upper hand held by this novel protein in controlling obesity induced diabetes. The study was performed by a team of scientist from Centre for Cellular and Molecular Biology (CCMB). They have reported SCGN that particularly binds to insulin which increases its stability and action thereby protecting them from various cellular stresses.

In the study, obese mice with diabetes were injected with SCGN and on observation a significant reduction in excess circulation of insulin and fat mass was identified. In addition, the protein also reduced level of bad cholesterol, LDL and lipid accumulation in liver cells. The results of this study were published in iScience. These findings of SCGN as Insulin binding protein provide a new therapeutic potential against diabetes.

Words to know:

EF – Helix loop helix structural domain of Calcium Binding Protein (CBP) family

Calbindin, Calretinin – Calcium Binding Protein (CBP)

Insulinoma – Tumour of Pancreas

Murine – Household rats or mice used as animal model especially for studying cancer.

Reference:

SCGN for diabetes- <https://doi.org/10.1016/j.isci.2019.10.066>

Wagner *et al.* - doi: 10.1677/joe.0.1560469

Department Activities

Online Industry-Academia Workshop on “Health Lecture and Virtual Factory Tour”, 7th January 2021

Dr. Neerja Hajela, Microbiologist & Head of the Science Department, Yakult Danone India Pvt Ltd., Delhi addressed the students and spoke about the importance of microbes in maintaining gut health.

Ms. Sujatha Devarajan, Science Executive, Yakult Danone India Pvt Ltd., Chennai, ended the first session of the workshop with a lecture on intestinal health and probiotics where the students were educated on the role of natural fermented foods and the necessity of probiotics in the present world.

This was followed by a virtual factory tour of Yakult Danone India Pvt. Ltd. by Mr. Aadish and Mr. Ajay, Executives from PR team. During the virtual tour, the students learnt about the history of Yakult Probiotic and the various processes and instrumentation related to the production of probiotics.



Dr. Neerja H



Ms. Sujatha D

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*Somewhere,
something incredible
is waiting to be
known.*

- Carl Sagan

Virtual Webinar on "Fundamentals of Research Writing and Manuscript Publication", 30th January 2021

Mrs. Geetha Venkatramani, Deputy General Manager-Language Editing, TNQ Technologies, Thiruvananthapuram, Chennai guided the participants through the basics of manuscript publication, critical aspects of research writing and publishing a noteworthy research work.



Ms. Geetha V

National Level Virtual Webinar on “Insects of Forensic Importance”- 8th February, 2021

Dr. K. Sankaraiyah, Asst. professor, Department of Zoology, KMGIPSR, and affiliated to Govt. of Puducherry, introduced the students to a new field of science termed Forensic entomology. The participants learnt the basics of forensic science and the role of insects in identifying the post mortem interval.



Dr.K.Sankaraiyah

National Level Virtual Webinar on “Production Validation of Manufacturing of Biological Products”, 12th February, 2021

The session headed by **Mr. Uday Bhaskar Suram**, Deputy Manager, Sanofi Healthcare India Pvt Ltd. Medchal-Hyderabad, focused on the various aspects of Quality Assurance Process in Bioprocess Technology.



Mr.Uday Bhaskar

Neil deGrasse Tyson

The good thing about science is that it's true whether or not you believe in it.

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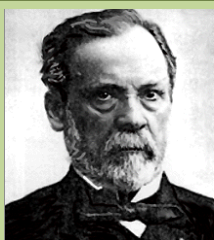


Department Activities

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*Everything is
theoretically
impossible until it is
done.*

- Robert A
Heinlein



Louis Pasteur

Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world.

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ICAB-GT- 2021-February 17 & 18, 2021

This Virtual International Conference on Advances in Biotechnology – Gene Technology (ICAB-2021) served as a platform to co-ordinate the research acquired knowledge from enthralling genetic engineering visionaries to the young aspirants deeply fascinated by the genes and their hidden facts.

The Inaugural session of the International Web Conference in Biotechnology- Gene Technology (ICAB-2021) was held at the Dwaraka Auditorium. The Inaugural Chief Guest, **Prof. N. Mathivanan**, Registrar (i/c), University of Madras, spoke about the need of advances in research in biotechnology & gene technology.

Dr. S. Santhosh Baboo, Principal, DDGDVC, delivered an interesting speech which highlighted the importance of biotechnology and the innovations in genetic research. The **Conference Proceedings** and the **Department Newsletter** was released by our honorable Principal, Dr. S. Santhosh Baboo during the inaugural.



Department Activities

ICAB-GT- 2021-February 17 & 18, 2021

The Day 1 lecture sessions were led by:

Dr. Suresh Kumar, Assistant Professor, ARBA MINCH University, Ethiopia spoke about "The Use of Invertebrate model organisms in Genetic and Toxicological Research", **Dr. Arun Meyyazhagan**, Chief and Director, EuroEspes Biomedical Research Centre, Corunna, Spain, discussed the Basic Concepts and Biomarkers and Cytogenetics in Alzheimer and Parkinson diseases: **Dr. S. Jagannathan**, Assistant Research Officer, TCARV production laboratory, Pasteur Institute of India, Coonoor, The Nilgiris Genetic Engineering Techniques in Vaccine Development.

The Day 2 lecture sessions were led by:

Dr. Balamuralikrishnan, Assistant Professor, Department of Food Science and Biotechnology, College of Life Science, Sejong University, Seoul, South Korea gave an insight on the Impacts of Mycotoxin in Livestock agriculture and the Feed additives in Livestock Industry, **Dr. Ashwini Malla**, Postdoctoral Fellow Chulalongkorn University Bangkok, Thailand, conferred the Advances in Genetic Engineering Methods for Expression of Biologics. **Dr. Kumar Saurav**, Scientist, Centrum ALGATECH Czech Republic had thrown light on the blue green world of natural products which included the quorum sensing of cyanobacteria. Following the lecture sessions on Day 1 and Day 2, the e-posters and oral presentations were conducted parallelly with internal and external judges. 50 oral presentations and 25 e-posters were evaluated by the judges and selected for prizes.



Dr. R.S. Suresh Kumar
Assistant Professor
ARBA MINCH University
Ethiopia



Dr. S. Jagannathan
Asst. Research Officer
TCARV Production
Laboratory
Pasteur Institute of
India, Coonoor



Dr. Ashwini Malla
Postdoctoral Fellow
Chulalongkorn
University
Bangkok, Thailand



Dr. B. Balamuralikrishnan
Asst. Professor
Sejong University
Seoul, South Korea



Dr. Arun Meiyazhagan
EuroEspes Biomed.
Research Centre
Institute of Medical
Sciences and Genomic
Medicine
Corunna, Spain

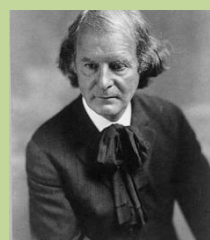


Dr. Kumar Saurav
Scientist
Centrum ALGATECH
Czech Republic

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*We cannot solve
problems with the
same thinking we
used to create them.*

-Albert Einstein



Elbert Hubbard
One machine can do
the work of fifty
ordinary men. No
machine can do the
work of one
extraordinary man.

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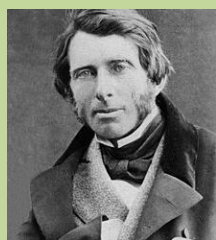


Department Activities

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The role of infinitely small in nature is infinitely great.

-Louis Pasteur



John Ruskin

The work of science is to substitute facts for appearances, and demonstrations for impressions.

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Guest Lecture on "Studies on the Operation of Microbial Fuel Cells using Pseudomonas spp.", 20th April 2021

The guest speaker for the session, **Dr. R. Manogari**, Assistant Professor and Head, Department of Biotechnology, Arcot Sri Mahalakshmi Women's College, Villapakkam communicated her research knowledge to the students. By the end of the session, the participants gained information on the use of microorganisms to reduce carbon footprint and environmental pollution.



Dr. R Manogari

Virtual Webinar on "Research Aspects in Biotechnology", 31st May 2021

A webinar in association with VJ Biotech was conducted by the Department of Biotechnology, DDGD Vaishnav College. The speaker **Dr. S. Vijaykumar**, VJ Biotech, Coimbatore stressed on the various research aspects in stem cell technology and DNA fingerprinting.



Dr. Vijaykumar S

Virtual International Webinar on "Career Guidance & Jobs of the Future", 17th June 2021

Mr. Kavin Chandrasekaran, Research & Developmental Professional, Public Speaker, Elektrobit, Germany lectured the students on how to approach recruiters and proceed with higher studies, consultancy, research and job opportunities abroad.



Mr. Kavin C

SKILL BASED TRAINING PROGRAM I

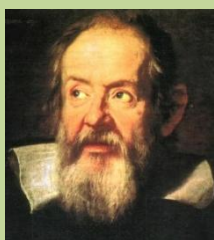
The Department of Biotechnology offered a skill-based training program (I) on "Network Pharmacology Databases" to the interested students of III UG and II PG Biotechnology for the academic year 2020-2021. **Ms. Shoba G**, Faculty, Department of Biotechnology, DDGDVC, served as the resource person for the entire program. The course was conducted between 12.06.2021 and 17.06.2021; two hours of classes were scheduled everyday and the training was completed in a time duration of 15 hours. The practical training comprised of appropriate guidance to carry out research using various tools and software in bioinformatics. The content of the module included knowledge impartment on ethnobotanical databases, UNIPROT, binding and string databases. This skill-based training program (I) on "Network Pharmacology Databases" helped the students to acquire and relate the available biomedical data efficiently and establish compound/protein/gene/diseases network which aided in additional skill development apart from academic curriculum.

Department Activities

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*Science is the poetry
of reality.*

**-Richard
Dawkins**



Galileo

You cannot teach a man anything; you can only help him discover it in himself.

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MEMORANDUM OF UNDERSTANDING

To benefit the student community by enhancing their skills/knowledge and facilitating exchange of resource materials pertaining to academics, research and workshops, the Department of Biotechnology, Dwaraka Doss Goverdhan Doss Vaishnav College signed MoUs with:

- **Kirke Cheese Private Limited-Food Safety Genie, Chennai on 02.02.2021**
- **Hubert Enviro Care Systems (P) Ltd, Chennai on 02.02.2021**
- **Golden Jubilee Biotech Park for Women Society, Chennai on 01.04.2021**



Kirke Cheese Private Limited-Food Safety Genie



Golden Jubilee Biotech Park for Women Society

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Creativity is contagious, pass it on.

-Albert Einstein



Kalpana Chawla

The path from dreams to success does exist. May you have the vision to find it, the courage to get on it and the perseverance to follow it.

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VALUE ADDED COURSES

FOOD SAFETY & HYGIENE STANDARDS- April 2021

The Department of Biotechnology in association with **KASE Chennai and Food Safety Genie**, Chennai offered a Value added course on **“Food safety and Hygiene Standards”** for the students of I M.Sc Biotechnology for the academic year 2020-2021.

The resource person of the value added course was Ms. K. Pavithra, Trainer and Founder of Food Safety Genie, Chennai. She is a reputed Food Safety specialist and has a rich experience in offering training to the students regarding food safety.

The course was started in the month of February on 22.02.2021 and ended in the month of April on 19.04.2021. Through the course the students learnt about the type of hazards that can occur in a food establishment, the maintenance of hygiene at different production and storage levels, the identification and prevention of food spoilage, the detection of different food pathogens and the regulations concerned with food quality assurance.

CLINICAL RESEARCH & CLINICAL DATA MANAGEMENT- May 2021

The Department of Biotechnology in association with Indian Healthcare BPO, Chennai offered a Value added course on **“Clinical Research and Clinical Data Management”** for the students of II M.Sc Biotechnology and III B.Sc Biotechnology for the academic year 2020-2021.

The resource person of the value added course was Dr. Assma Banu, Online Tutor, Indian Healthcare BPO, Chennai. She is a reputed online trainer for pharmacovigilance, clinical research, clinical data management and medical coding. She has a rich experience in offering training related to pharmacovigilance.

The course was started in the month of April on 26.04.2021 and ended in the month of May on 15.05.2021. The students gained knowledge on Clinical research, Clinical trials and phases, Drug discovery, Ethical principles in clinical research, ANDA(Abbreviated new drug application), ICH Good clinical practices, Data validation, MedDRA coding and Computer system & Development of clinical system .

THE WORDS OF INSPIRATION

**-Ms. Gayathri R, Research Scholar,
IIT Delhi**

Born and brought up in Chennai, I pursued my undergraduate (2017) in Biotechnology at SRM Institute of Science and Technology and postgraduate (2019) in Biotechnology at Dwaraka Doss Goverdhan Doss Vaishnav College. I have currently joined doctoral programme at School of Interdisciplinary Research, IIT Delhi through DBT fellowship. My postgraduate days were a multifaceted learning, developing myself to face the outer world.



**M.Sc Biotechnology
2017-2019 Batch**

The Department of Biotechnology, DDGD Vaishnav College always had an encouraging environment and supported students to participate in various activities. I was part of the Department Student council, College throwball team, participated in various workshops and conferences. Addition to academics, all these extracurricular and co-curricular activities helped to build my career path. I was recipient of UGC Postgraduate Indira Gandhi Scholarship with encouragement from my teachers at DG Vaishnav College.

Later, I qualified national level examinations as GATE BT 2020, GATE XL 2021, DBT JRF 2020 Category 1, UGC NET for Assistant Professor and was project staff with Anna University and IIT Madras before joining the doctoral programme at IIT Delhi.

When I stepped out my comfortable shell that is my college days and went for a job hunt the reality seemed different, I then sensed the competition we need to strive through to get a good position, which really instilled the focus in me to read more and to qualify these examinations. Yes, it's then I realized and started to shape my career and set my goals. So, nothing is too late or early, grasp the opportunity keep learning, the progression may be slow but it isn't IMPOSSIBLE!!

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The scientist is not a person who gives the right answers, he's one who asks the right questions.

-Claude Levi-Strauss



Niels Bohr

An expert is a person who has made all the mistakes that can be made in a very narrow field.

STUDENT ACHIEVEMENTS

Harsha M, I B.Sc Biotechnology won the second price in the Quiz competition, during VFEST 2021 organized by DDGD Vaishnav College on February 13, 2021.

Niteesh V, II B.Sc Biotechnology won the third prize in the IPL auction, during SYNERGY 2021 organized by the Department of Business Administration, DDGD Vaishnav College on March 4, 2021.

Abhinash Kumar V K, I B.Sc Biotechnology won the third prize in the Photography competition, during TECHCRAZE-2K21 organized by the Department of Computer Science, DDGD Vaishnav College on March 24, 2021.

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*A man who dares to
waste one hour of time
has not discovered the
value of life.*

-Charles Darwin



Ralph Merkle
Nanotechnology is
an idea that most
people simply didn't
believe.

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THEIR JOURNEY...

**-Ms. Thrishna M R, M.Sc Biotechnology,
VIT**

Like everyone else my college life was also an exciting one with so many ups and downs, nervous, anxious, and some stressful moments. I belong to Biotechnology department where all the students spend 3 years of their life as a family with the faculty members, develop a bond which I never developed during the 14 years of my school life. Like a small family, we enjoyed and learnt a lot, celebrated festivals and discussed curriculum



**B.Sc Biotechnology
2017-2020 Batch**

The department association club Technosaviour gave us a very different learning and improving platform. We were also taken for Industrial visit where we had a chance to experience working environment.

Alumni meets were organized where our seniors were invited to share their experience after graduation and also helped us clear our doubts regarding our future steps.

Our teachers were very supportive not only during our college days but also after graduation. They not only shared their knowledge but also helped us to make something innovative from it. The days I spent in this department are not some memories to be remembered, but to be cherished.

THEIR JOURNEY...

**-Ms. T Sahastra Rao, M.Sc Biotechnology,
Sri Ramachandra Medical College**

My journey at Dwaraka Doss Goverdhan Doss Vaishnav College - at the Biotechnology Department helped me excel academically to pursue my ambition on RESEARCH Platform, besides, opportunity given to express my competency, skills and talent.

I am proud to state that our department comprises of excellent experienced faculty members, and with their professional guidance I was able to fulfill my task and dreams.



**B.Sc Biotechnology
2017-2020 Batch**

In fact, this experience transformed my growth which helped me to continue my further studies of PG portfolio at Sri Ramachandra Medical College. I always admire them. I also wish to mention the contribution of my classmates who inspired me to make my journey easy.

Technosaviour- Biotechnology Club

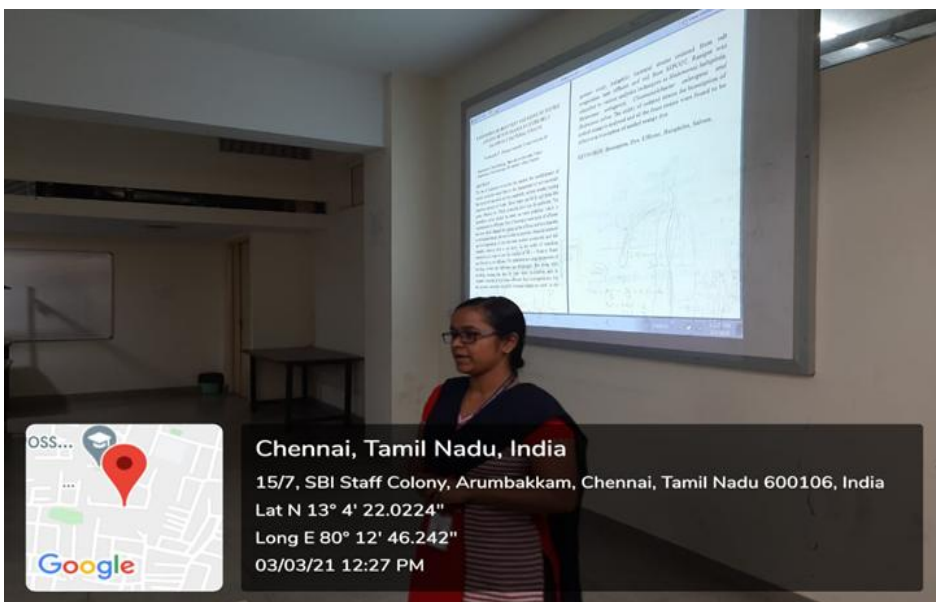
SPOT LIGHT- VIDEO CONTEST, 12th January 2021

To celebrate the “National Youth Day”, the Biotechnology Association of Dwaraka Doss Goverdhan Doss Vaishnav College organized the Spot Light - video contest on the theme “Channelizing Youth Power for Nation Building by Biotechnology”. The contest channeled the inner energies of the students and kindled their thoughts on development of India in all aspects.



EUREKA- MAKE LIFE SIMPLE, 3rd March 2021

To commemorate the National Science Day, an intradepartmental club activity was conducted with an aim to encourage students to think innovatively and present their ideas on scientific advancements. The scientific write-ups presented by the participants were judged by the faculty coordinators based on theme relevancy, creativity and clarity.



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Winners

SPOT LIGHT

First Prize

Ms. Swetha S

II B.Sc. Biotechnology

Second Prize

Mr. Yuvaraj S

II B.Sc. Biotechnology

Third Prize

Ms. S. Aishwarya

I B.Sc. Biotechnology

Winners

Eureka

First Prize

Ms. Subhiksha S

I M.Sc. Biotechnology

Second Prize

Mr. Mohan M

I B.Sc. Biotechnology

Third Prize

Ms. Namrutha D S

I B.Sc. Biotechnology

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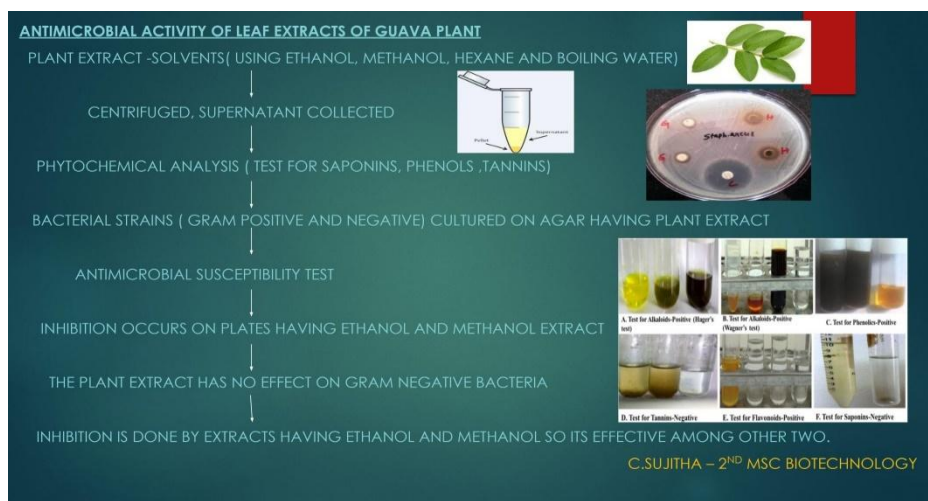
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SCIENCE PROPHET- POSTER PRESENTATION, 29th January 2021

The activity served as a platform for the students to communicate their research ideas in a visually structured manner. The participants presented their posters relevant to the theme via Google Meet.



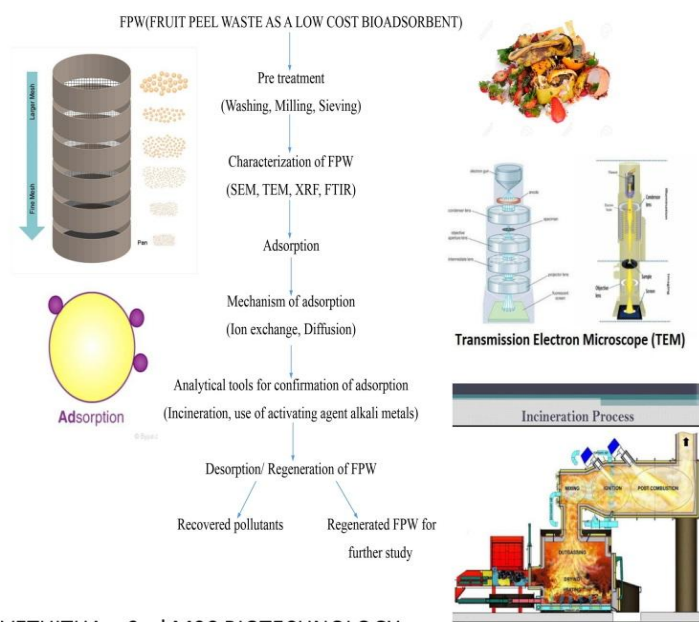
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Winners Bioinstrumentation

First Prize
Ms. Pavithra A
II B.Sc. Biotechnology

Second Prize
Ms. Dhivyaa Gomathi
II B.Sc. Biotechnology

Third Prize
Ms. Paarkavi S
I B.Sc. Biotechnology



S.NIVETHITHA – 2nd MSC BIOTECHNOLOGY

Winners Work Flow System for Science

First Prize
Ms. Nivethitha S
II M.Sc. Biotechnology

Second Prize
Mr. Vishaka Aravind V
III B.Sc. Biotechnology

Third Prize
Mr. Karthikeyan R
III B.Sc. Biotechnology

ONLINE WEBINAR ON WOMEN IN LEADERSHIP, 8th March 2021

With the aim to celebrate women and create awareness on their equality and rights, **Ms. Shri Shruthi**, Entrepreneur and Social Activist, CEO of Kanaiyazhi and ArapporIyakkam motivated the students while sharing her experiences as a woman entrepreneur.

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Technosaviour- Biotechnology Club

LETTER TO MOTHER NATURE, 5th June 2021

"Letter to Mother Nature" -the seventh club activity for the academic year 2020-2021 was observed on 05/06/2021 to commemorate **World Environment Day** and to accentuate the importance of Nature and environment to the students by organizing three different contests which included, **Digital Mixed Media Collage**, **Drawing** and **Essay Writing** for the students of the department of Biotechnology.



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Winners

Drawing

First Prize
Mr. Mohan M

I B.Sc. Biotechnology

Second Prize
Ms. Yuvashree C

I B.Sc. Biotechnology

Third Prize
Ms. Namrutha D S

I B.Sc. Biotechnology

Digital Mixed Media Collage

First Prize
Ms. Sundari S

II B.Sc. Biotechnology

Second Prize
Ms. Paarkavi S

II B.Sc. Biotechnology

Essay Writing

First Prize
Ms. Roopika S
I B.Sc. Biotechnology

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Technosaviour- Biotechnology Club

A SALUTE TO WARRIORS, 1st July 2021

“Letter to Mother Nature” -the seventh club activity for the academic year 2020-2021 was observed on 05/06/2021 to commemorate **World Environment Day** and to accentuate the importance of Nature and environment to the students by organizing three different contests which included, **Digital Mixed Media Collage, Drawing** and **Essay Writing** for the students of the department of Biotechnology.



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Winners

Drawing

First Prize

Ms. Karthika A

I M.Sc. Biotechnology

Second Prize

Ms. Dhivyaa Gomathi

II B.Sc. Biotechnology

Third Prize

Ms. Shreenisha M

I B.Sc. Biotechnology

Runners up

Mr. Pradeep K

I M.Sc. Biotechnology

Ms. Bhargavi J

II B.Sc. Biotechnology

Mr. Naveen Kanth

I B.Sc. Biotechnology

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Faculty Publications

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Dr. M.D. BalaKumaran & Ms. G. Shoba

Anju K, **Shoba G**, Sumita A, **Balakumaran MD**, Vasanthi R, Kumaran R. Interaction of acridinedione dye with a globular protein in the presence of site selective and site specific binding drugs: Photophysical techniques assisted by molecular docking methods. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Volume 258, 5 September 2021, 119814. (Impact factor: 4.098)

Ms. G. Shoba

Anchana, S.R., Girija, S.A., **Shoba, G.** and Priyadharsini, V.J., Detection of csgA gene in carbapenem-resistant *Acinetobacter baumannii* strains and targeting with *Ocimum sanctum* biocompounds. *Iranian Journal of Basic Medical Sciences* 2021 May;24(5):690-698. (Impact factor: 2.699)

Panikar, S., **Shoba, G.**, Arun, M., Sahayarayan, J.J., Nanthini, A.U.R., Chinnathambi, A., Alharbi, S.A., Nasif, O. and Kim, H.J., Essential oils as an effective alternative for the treatment of COVID-19: Molecular interaction analysis of protease (Mpro) with pharmacokinetics and toxicological properties, *Journal of Infection and Public Health*, Volume 14, Issue 5, 2021, Pages 601-610. (Impact factor: 3.718)

Sogasu, D., Girija, A.S., **Shoba, G.**, and Priyadharsini, J.V., Molecular characterization and epitope-based vaccine predictions for ompA gene associated with biofilm formation in multidrug-resistant strains of *A.baumannii*. *In Silico Pharmacology* 2021, 9, 15.

Faculty Awards

Ms. G. Shoba, Guest Lecturer, Young Researcher Award 2021 from Institute of Scholars (InSc) during March 21 for the publication Molecular characterisation of csgA gene among ESBL strains of *A. baumannii* and targeting with essential oil compounds from *Azadirachta indica*, *Journal of King Saud University - Science*, Volume 32, Issue 8, 2020, Pages 3380-3387. (Impact factor: 4.011)

Dr. A. Sivaranjini, Assistant Professor, received the **Adarsh Vidya Saraswati Rashtriya Puraskar** from Glacier Journal Research Foundation in March 2021.

Dr. M.D. Balakumaran, Head (i/c) and Assistant Professor received the **IOP Publishing Outstanding Reviewer Award** from IOP Publishing, Bristol for his outstanding review during May 2021.

Faculty served as a Resource Person

Dr. M. Pavithra, Assistant Professor, Department of Biotechnology, DDGDVC served as a "Resource Person" during the debate on the topic "Does Women Empowerment prevail more in Family or Society?" organised by Sacred Heart College, Tirupattur on March 8, 2021

Dr. A. Sivaranjini, Assistant Professor, Department of Biotechnology, DDGDVC served as a "Resource Person" and delivered a lecture entitled "Down Syndrome- An Insight of the Disease" in the Virtual Webinar on World Down Syndrome Day organized by Sri Ramakrishna College of Arts and Science, Coimbatore held on March 22, 2021

Dr. M. Pavithra, Assistant Professor, Department of Biotechnology, DDGDVC served as a "Resource Person" in the BIODRASILLANCE VT'21 – "A Virtual Two Day National Conference", organized by the Department of Biotechnology, Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai on April 24, 2021

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