

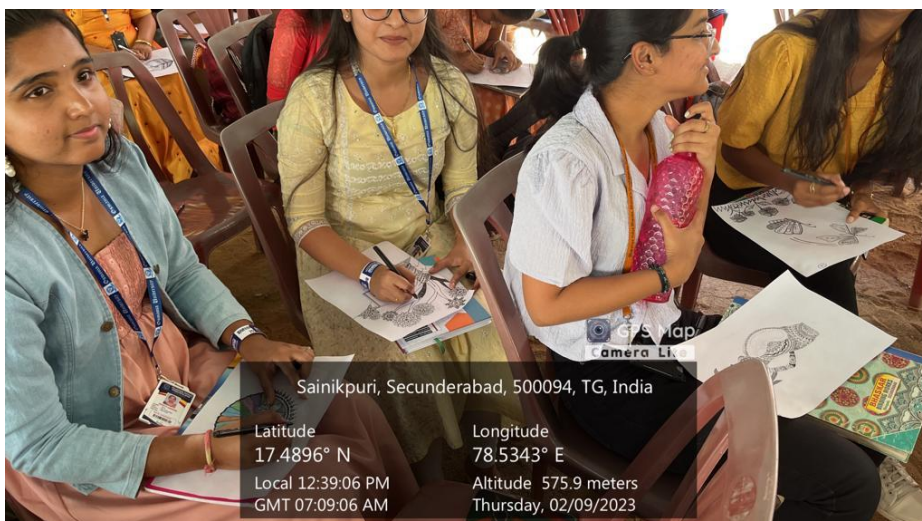
**Name of the Event: Jeeva Mandala Art**  
**Organising Department: Genetics and Biotechnology**  
**No. of Participants:**  
**Report:**

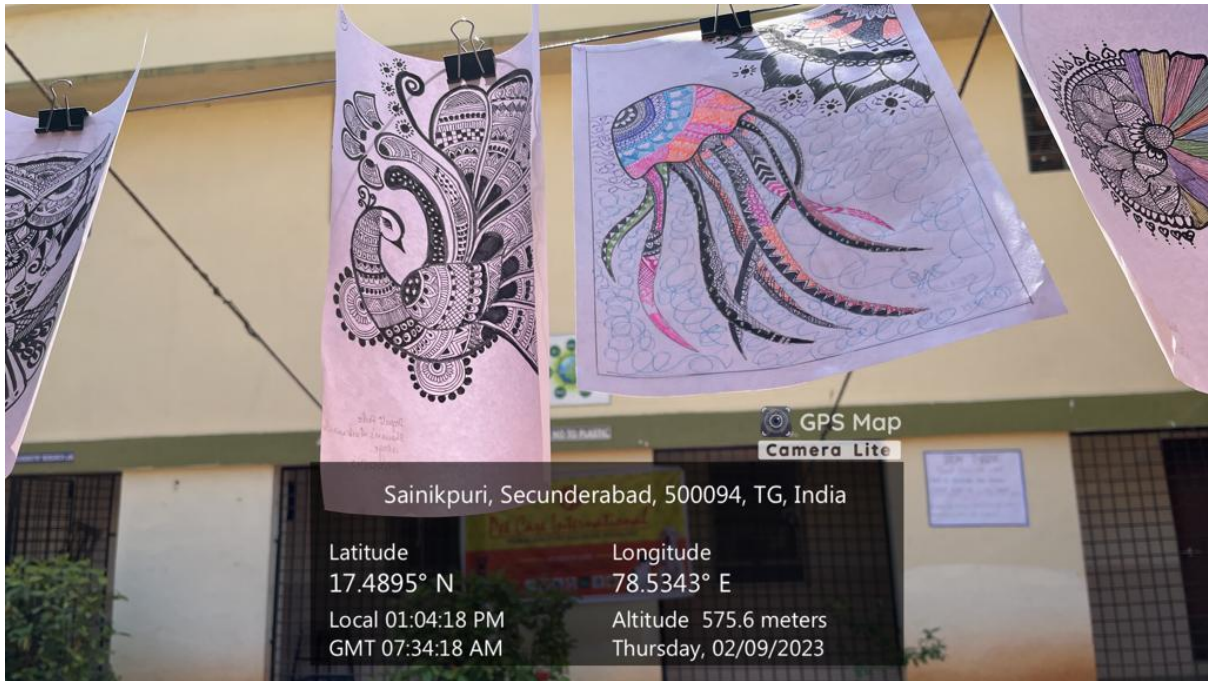
The Department of Genetics and Biotechnology organised a Mandala art Competition as a part of Bhavanotsav 2023, on 09-02-2023 at Science Quadrangle from 11AM onwards. Jeeva Mandala Art, is an individual event where students could express their creativity and connect art with life giving a significant message of the need to conserve nature. The event In-Charges were Dr Sushma Patkar and Dr V Deepa Switha. The Judge for the event was Mr Srikanth Bandi, Artist and Director, SB Art Studio. Mr Srikanth specialises in Abstract Paintings and Portraits. He also conducts art workshops for schools and other institutions.

The total number of registered participants for the event were 49. Of which 44 were inhouse participants and 5 were from other colleges in Hyderabad. Some of the colleges included Telangana Mahila Vishwavidyala, Kot and Vaishnavi School of Architecture and Planning to name a few. The event was appreciated by all.



Participants taking part in Jeeva Mandala Art competition





Final artwork at display



Mr Bandi Srikanth, the Judge of the event keenly looking at the participants Art.

**Name of the event: Iron Throne (Bio-verse 2023)**

**Organising Department: Department of Genetics and Biotechnology**

**Total no. of participants: 79**

Fun musical chairs, individual event called **Iron Throne** was conducted by **Department of Genetics and Biotechnology** under Bio-verse (School of Life Sciences, Bhavanotsav 2023) on **9<sup>th</sup> February, 2023**, in **Science Quadrangle** at **2.00 – 3.00 pm**.

The faculty in-charges for this event were **Dr. I. Rachana Kumari** and **N. Shruti**.

The total number of students who participated in this event were 79, of which 68 were in-house college and 11 were from other colleges. A total of 69 female students and 10 male student participants.

The following are the names of other colleges from where students participated:

- 1. Telangana Mahila Vishwa Vidhyala, Koti**
- 2. St Ann's Degree College**
- 3. Little Flower Degree College**
- 4. Vaishnavi School of Architecture and Planning**

The students participated with great enthusiasm and they all enjoyed it a lot.

The names of prize winners are

- 1) First prize – K. Mahesh, BVC

**Photos**



**Name of the event: Sense-A Relay (Bio-verse 2023)**

**Organising Department: Department of Genetics and Biotechnology**

**Total no. of participants: 35**

Sense-A\_Relay, a game is based on science with each team comprising three students and involving and involving dum schardes and content writing. This event was conducted by **Department of Genetics and Biotechnology** under Bio-verse (School of Life Sciences, Bhavanotsav 2023) on **9<sup>th</sup> February, 2023**, in **Science Quadrangle** at **10.00 am – 12.00 Noon**.

The faculty in-charges for this event were **Dr.S.Nagamanju and Mrs.D.Metilda Rosalin**

The total number of students who participated in this event were 35, of which 29 were in-house college and 06 were from other colleges which includes 25 female and 10 male students.

The following are the names of other colleges from where students participated:

**1. Loyola Academy, Alwal**

The students participated with great enthusiasm and they all enjoyed a lot.

The names of prize winners are

- **First prize – Team 6 from Loyola Academy**
  1. Hoshang A.V .Iyengar
  2. V.Vivek
  3. Sonali
- **Second Prize- Team 12 from Bhavan's Vivekananda College**
  1. Abhilaya
  2. Radha prasannam
  3. G.Manasvi

**Photos**





## **Report**

### **Ecotopia - 2023 on 7/01/2023**

Ecotopia - 2023 titled “A Celebration of Biodiversity” was organized by greENERGY club in collaboration with the Green Campus Program on 07-01-2023. This event was co-ordinated by Dr.B.Kalpana, Head, Department of Genetics and Biotechnology and Dr.Y.Aparna, Secretary, green campus program. Three competitions were held as part of Ecotopia -2023 namely E-colour (painting), Poster Delight (e-poster) and Talk Master (elocution) were scheduled from 2 to 3 pm. The programme witnessed around 70 enthusiastic participants.

Ecolour (painting) titled “Urbanization of lakes” had 43 participants from different programmes of the college and was conducted at the science quadrangle near chemistry lab. Mrs.Devi Mallika, Faculty of Commerce and Mrs.D.Rajini , Faculty of Biochemistry were the judges for the event. Poornima, BTMC I secured the First prize, Sai Charan, B.Com 1A secured the second prize and Anumati Singh,BCA II secured the third prize.

Poster Delight ( e-poster ) titled “Building a shared future for all life” was conducted in room no 71 , biochemistry block with 9 participants. This event was judged by Mrs. Manali Bose Faculty of French and Mrs.Prachi Nath , Faculty of English from the department of languages.Tarini Tanya from MGC II, and Chandrika from MGC III secured the first and second prizes respectively.

Talk master (Elocution ) titled “Transforming lives in India- 2050” had 16 participants .This event was conducted in room no 208 , MBA Block. Mrs. Usha Rani, Faculty, department of English and Mrs. Sharon Anil, Faculty of Computer science were the judges for the event.Alekhya from MGC II, First, Hul future for all life”da Blessy from MGC III, Second and Gayathri Sharma from MGC I, third prizes.

The event concluded with a valedictory programme in room no. 208, MBA Block with a series of cultural performances including classical dance and songs. Dr.G.S.V.R.K. Choudary, Principal, BVC, Dr.Anuradha, Life sciences Head addressed the gathering and congratulated and presented the prizes for all the winners. HoD’s of various departments and faculty members were also a part of this programme.

Ecotopia 2023 was a grand success with a huge number of participants who enthusiastically took part in all the events. Students showed tremendous verve and energy making it a fun learning experience.





Ecocolour (painting) participant



Judges observing the painting



Team of Ecolor (painting)



Poster Delight (e-poster) participant



Judges interacting with participants



Team of Poster Delight (e-poster)



Participant of talk master



Judges evaluating the participants



Participant (Elocution) Faculty incharge and Judges

Talk



Valedictory programme



Team Ecotopia - 2



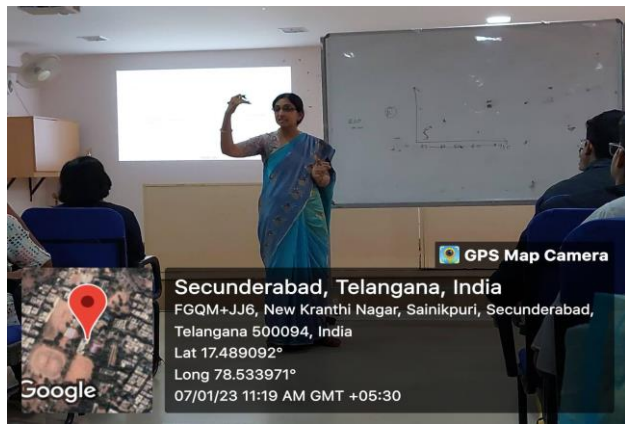
## **Report**

### **Guest Lecture by Dr. Sravanti Vaidya on 7/01/2023**

A guest lecture was organized by the Department of Genetics and Biotechnology on 7th January, 2023 from 10 am to 11 am at room no 208, MBA Block .The lecture was addressed by Dr. Sravanti Vaidya ,Project Scientist, CCMB, Hyderabad on the topic “Bioanalytical and Biophysical Techniques: An Overview”.

The lecture started with the artwork of a cell by crystallographer David Goodsell portraying the combination of art and science and spoke about the structure-function correlation of biomolecules, the function of a molecule based on its structure, their binding and interaction and the importance of chemistry in biology. She explained about the different DNA, RNA and protein sequencing methods like Edman degradation, Maxam & Gilbert method, Sanger method and Next Generation Sequencing methods and emphasized on the present demand for Bioinformaticians and the scope and opportunities in Bioinformatics. She gave an insight of how the structure of a molecule or biomolecule is determined with an example of her Ph.D research on Caspase- 6 and briefly spoke about the various bioanalytical and biophysical techniques like X-Ray Crystallography, NMR Spectroscopy, Cryo-EM and UV-Vis Spectroscopy using the FRET concept. Dr. Sravanti also showed some of her articles and molecular structures of proteasome complexes on PDB.

The entire lecture was very interesting and interactive. The students learnt the importance of mastering the concept of the subjects. They acquired research oriented knowledge which will be very useful in future.. The lecture was very beneficial and motivated the students towards their core fields. Dr. Sravanti Vaidya’s knowledge and achievements were very motivating to the students. Her teaching held the audience’s enthusiasm until the end as she was very friendly and interactive throughout the lecture. In conclusion a memento was presented by Dr. B. Kalpana, Head of Department of Genetics and Biotechnology to Dr. Sravanti Vaidya with a vote of thanks.





**BHAVAN'S VIVEKANANDA COLLEGE**  
of Science, Humanities & Commerce

Sainikpuri, Secunderabad - 500094  
Autonomous College, Affiliated to O.U.  
Reaccredited with 'A' grade by NAAC

Guest Lecture  
on

**Bioanalytical & Biophysical  
techniques: An overview**

On 7th January 2023  
Time: 10:00 A.M to 11:00 A.M

RESOURCE PERSON



**Dr. Sravanti Vaidya**  
Project Scientist, CCMB  
Hyderabad

Organized by  
**Department of Genetics & Biotechnology**

*Coordinator:*

**Dr. B. Kalpana**

Head, Department of Genetics & Biotechnology

*Venue:*

MBA Block

Room No. 208





## REPORT ON OUTREACH PROGRAM

Department of Genetics and Biotechnology of Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri conducted an outreach program on 29 -12-2022 for High School students of Zilla Parishad High School, Yapral, Secunderabad.

The aim of the program was to provide the students with knowledge related to Life Sciences, through means of various experiments, which would in turn convince the students into taking up Life Sciences as a career. The students from BtGC and MGC of sem 2,4 and 6 and BtMC of sem 2 took part in this program guided by Dr B Kalpana, Dr Sushma Patkar, Dr S Nagamanju ,Ms.D.Metilda and Ms N.Shruti . BVC students performed a total of 5 experiments, 3 model presentations and demonstrated permanent slides. They explained the basic principles about the experiments to the students of ZPHS. The experiments conducted are:

1. Isolation of DNA from onion
2. Mitosis in onion root tip cells.
3. ABO and Rh Blood Typing
4. Separation of Chloroplast pigments by Paper Chromatography
5. Preparation of Artificial seeds

The models presented were:

1. Double helical structure of DNA
2. Organisation of DNA into Chromosomes
3. Stages of Mitosis

The permanent slides included:

1. Amoeba
2. Paramecium
3. Euglena
4. Rhizopus
5. Simple plant tissues: parenchyma, collenchyma, sclerenchyma
6. Complex plant tissues: xylem and phloem

Students made all the necessary preparations a day prior to the outreach program like solvents, solutions and buffers. On the day of the event they freshly made the leaf extracts and root tips. Experiments were demonstrated to the school students who came in groups(classes 8,9 & 10). School students showed great enthusiasm in knowing the basic science experiments and noted down the information given to them

At the end of the session the school management were very thankful to the management of the Bhavan's college for conducting such a valuable outreach program for their students. The school students were also grateful to get an insight into the stream of Life Sciences. The students of Bhavan's also thanked the Department of Genetics and Biotechnology for giving them an opportunity to be part of the program and share their knowledge with the enthusiastic school students to motivate them towards studying Life Sciences.

**Impact of the Outreach program:** The outreach program was conducted with an objective to foster scientific temperament and inspire students to take up a career in Life Sciences. Research and progress in Science contributes to National Development. This outreach program was a small effort to inspire young minds to study Science and especially pursue a career in Life Sciences in future.

The following students attended the outreach program at ZPHS Yapral:

BtGC sem 2

J Lalitha Sai Mani Meghana -107222573011

Reetu Kumari- 107222573026

Radha Prasanna- 107222573043

Vishnu Vardhan- 107222573044

MGC sem2

Chinthamanani Harshita-107222459032

Nishanth Nangur-107222459031

Kalpanesh Sen-107222459021

Aman Khan-107222459017

BtMbC sem 2:

Y.Vaishnavi-107222444036

Isha Deep-107222444024

BtGC Sem 4:

Farshan Shaik-107221573035

Guntheti GDD Sree Vajran-107221573027

MGC Sem 6

E.Harshavardhan Reddy -107220459010

Prakruti Praveen Shenoy-107220459043

Borra Vidhatri-107220459005

BtGC Sem 6

P.Lasya-107220573025

M.Yamini-107220573049

M.Rithika-107220573040

J.Chandana-107220573035

S.Dharika-107220573026

M.Harini-107220573024



The team of Outreach Program



The faculty members of BVC and ZPHS



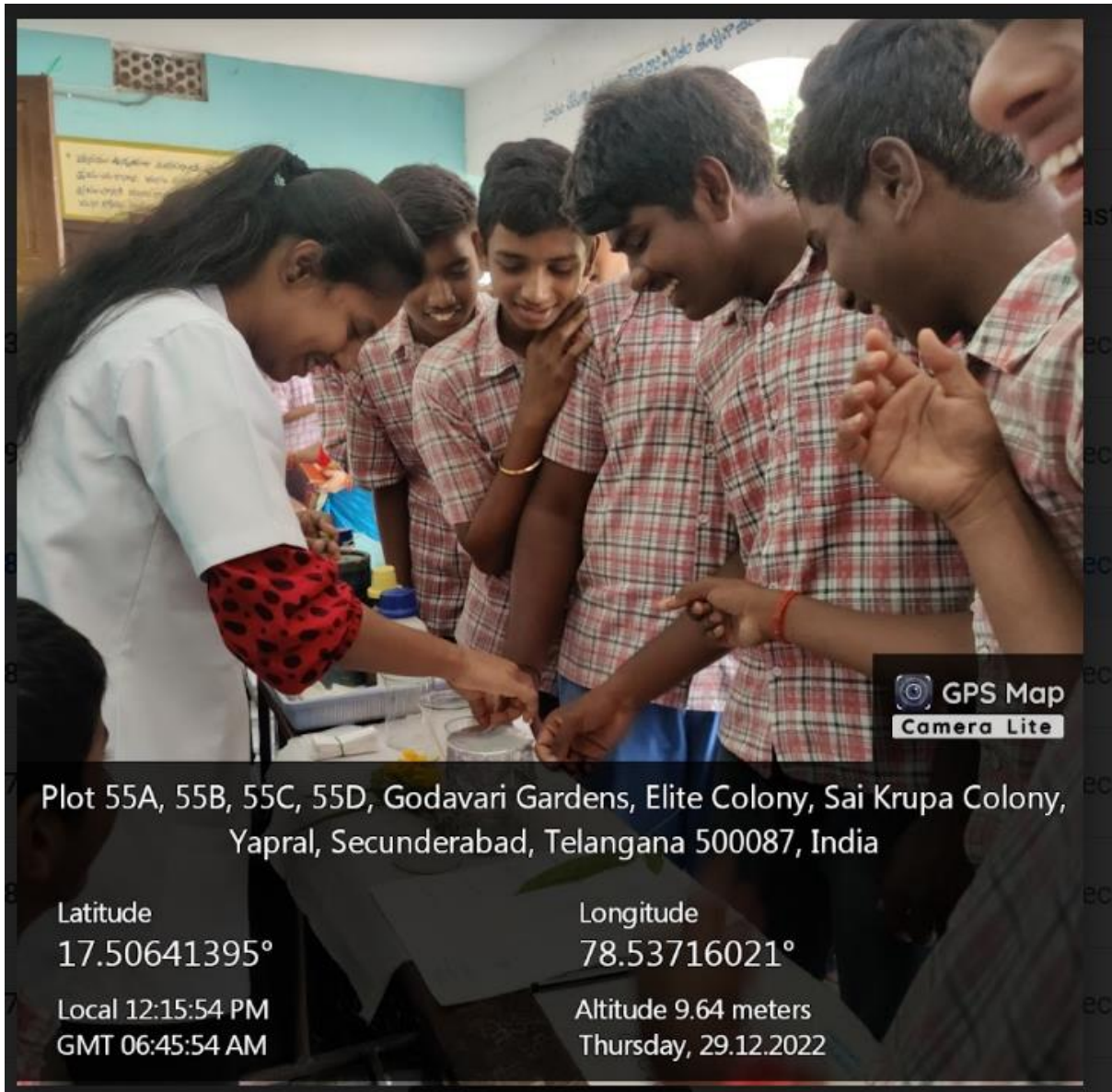
The students observing permanent slides through microscope.



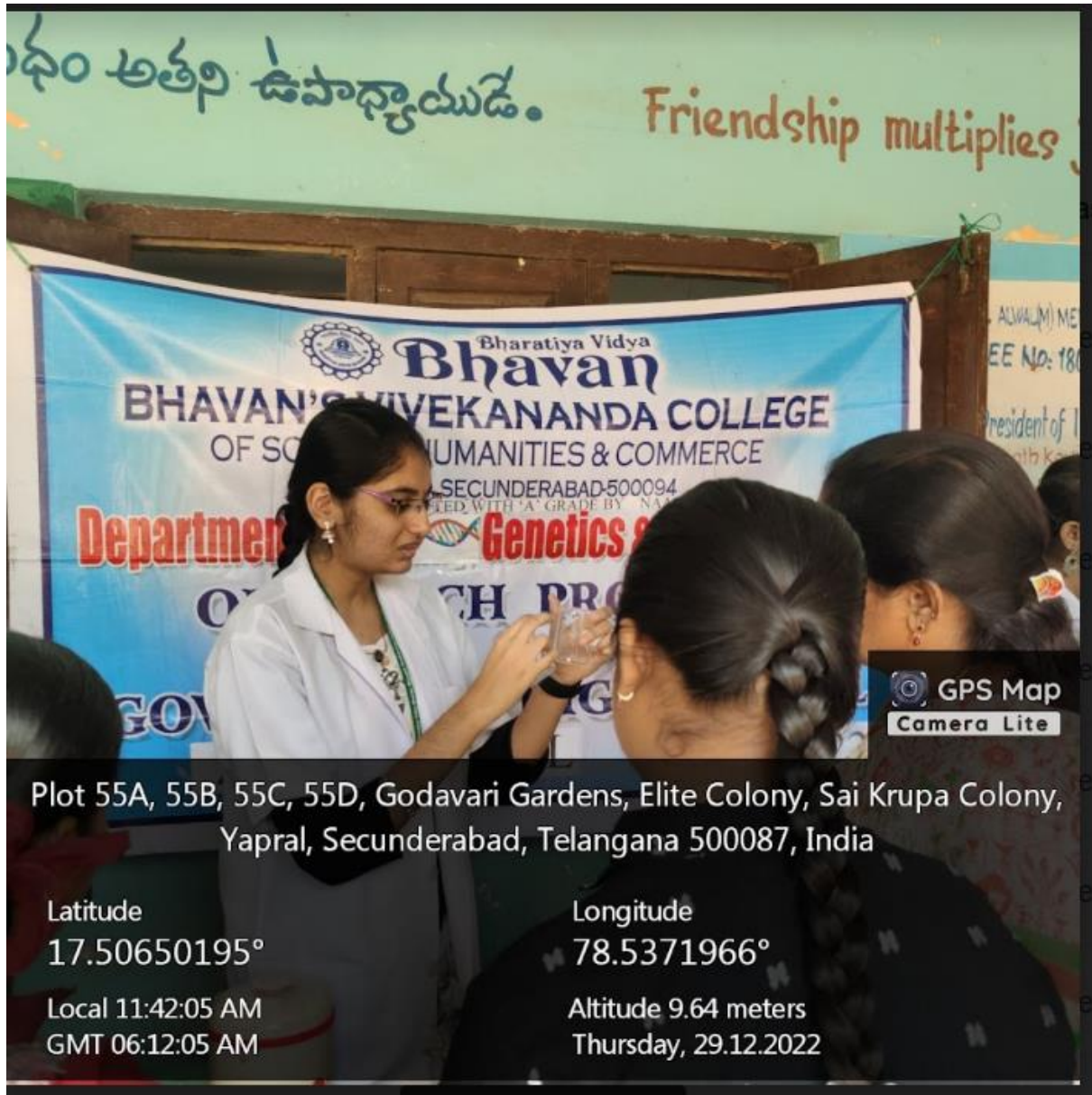
Students listening attentively to the model presentation



Students demonstration Blood Typing



School students enjoying the isolation of plant pigments using Paper Chromatography



Plot 55A, 55B, 55C, 55D, Godavari Gardens, Elite Colony, Sai Krupa Colony,  
Yapral, Secunderabad, Telangana 500087, India

Latitude  
17.50650195°

Longitude  
78.5371966°

Local 11:42:05 AM  
GMT 06:12:05 AM

Altitude 9.64 meters  
Thursday, 29.12.2022

BVC students demonstrating Isolation of DNA from Onion





# Bhavan's Vivekananda College

Of Science, Humanities and Commerce

Autonomous College – Affiliated to Osmania University

Re-Accredited with 'A' Grade by NAAC

Sainikpuri, Secunderabad – 500094

Ph : +91-04-27111611, 27115878

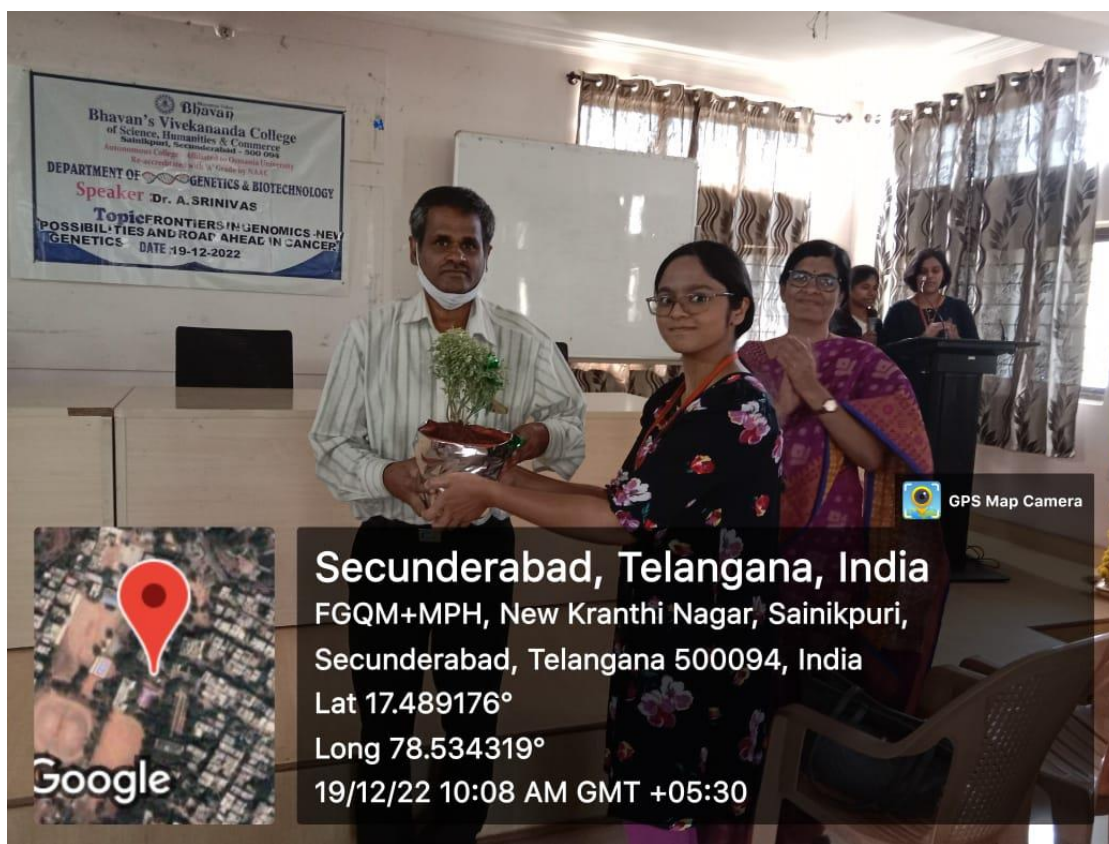
Visit us at: [www.bhavansvc.ac.in](http://www.bhavansvc.ac.in)

Date: 20-12-2022

The Department of Genetics and Biotechnology, organized a guest lecture on 19<sup>th</sup> December, 2022 at 10 am, in Room No 71, Biochemistry Block. The topic of the lecture was **Frontiers in Genomics - New Possibilities and Road Ahead in Cancer Genetics**. The Resource person was **Dr.A.Srinivas**, Assistant Professor in Genetics Department of Genetics and Biotechnology, Osmania University and In charge Head, Department of Biotechnology, University College of Science, Saifabad.

Dr. Srinivas gave an elaborate talk on cancer, cancer genetics, cancer genomics, precision of cancer medicine and careers in cancer genetics and genomics. He informed that the annual cancer cases grew by 23.6 million and that the risk of cancer is increasing with age. The most commonly occurring cancers are that of breast, lung, colon and prostate. He pointed out that a majority of cancers (in about 90-95% of cases) arise due to genetic mutations from environmental and Life style factors. While 5-10% are due to inherited genetic factors. He gave an in-depth account on oncogenes and tumor suppressor genes, mechanism of activation of oncogenes, gene amplification etc. He also explained the clonal evolution of cancer cells involving impairment of DNA repair genes. Dr. Srinivas gave an insight about the epigenetic alterations like methylations involved in cancer. While explaining the metabolism of cancer cells, he informed that most cancer cells rely on Glycolysis pathway for energy. He informed that structural genomics can be used in cancer to measure the activity of genes that are either abnormally active or silenced in cancer cells. He said that genome information about cancer is leading to better diagnosis and treatment strategies that can be used as personalized medicine. In the end he spoke about the various career options for an undergraduate student like Research Assistant, Clinical Trials Associate, lab technician, Clinical Research Scientist to name a few.

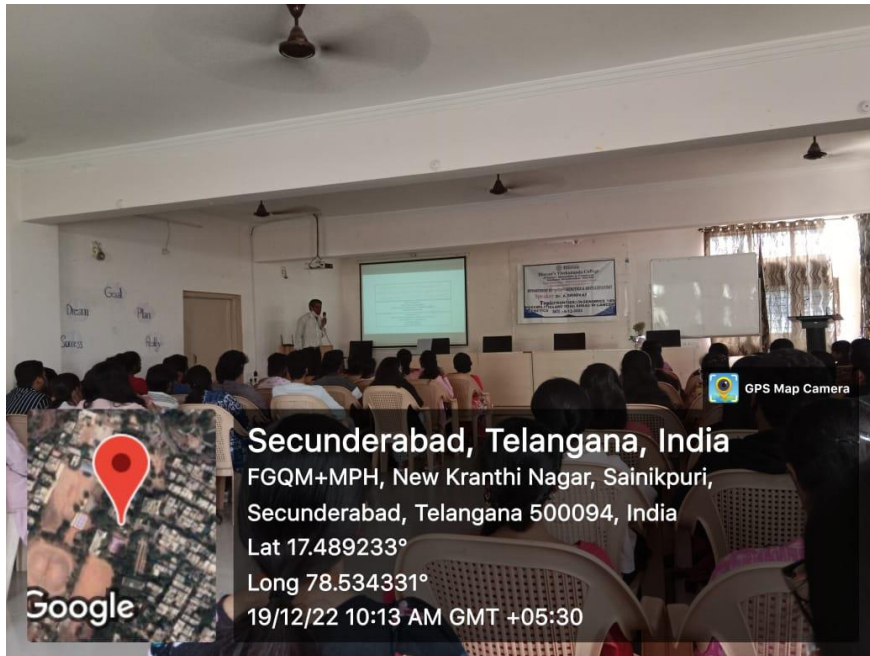
The program ended with an interactive Q&A session. Dr. Srinivas advised the students to maintain a good and healthy lifestyle to prevent cancer. Dr.B.Kalpana, Head, Department of Genetics and Biotechnology presented a memento as a token of gratitude to Dr Srinivas. Around 80 Students of MbGC, BtGC final and Second years attended the program. They found the lecture informative. Most of the students were motivated to take up a career in cancer genetics.



Ms. Medha of BtGC final year presenting a plant hamper to Guest speaker Dr. Srinivas, Dr. Kalpana Looks on.



Students keenly Listening to Dr. Srinivas.



Dr. Sinivas giving this talk.



Dr B Kalpana, head, Department of Genetics and Biotechnology, presenting a Memento to Dr. Srinivas.



**Bhavan's Vivekananda College of Science Humanities and  
Commerce  
Sainikpuri, Secunderabad- 500094  
Autonomous College, Affiliated to Osmania University,  
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**Guest lecture on  
Frontiers in Genomics - New Possibilities  
and Road ahead in Cancer Genetics**



**Resource Person**

**Dr. A. Srinivas**

**Asst. Prof. In Genetics**

**Department of Genetics & Biotechnology**

**Osmania University**

**Incharge Head**

**Department of Biotechnology, University College of Science, Saifabad.**

**Organized by  
Department of Genetics and  
Biotechnology**

**Date: 19-12-2022  
Venue: Room No. 71,  
Biochemistry Block  
Time: 10 am**

**REPORT ON SCIENCE CLUB ACTIVITY ON 22/10/22**  
**DEPARTMENT OF GENETICS AND BIOTECHNOLOGY**  
**TITLE: QUIZ DE SCIENTIA**

A quiz event was organized by the Department of Genetics and Biotechnology as a part of the science club on 22, October 2022 in room no 71(seminar hall) at Bhavans Vivekananda College, between 2:00pm and 4:30pm for exploring one's science interest.

It was a fantastic quiz event conducted by the B.Sc Bt.G.C third year students. It was pleasing to have many students of different streams coming forward to participate.

The event started with a key note address by Dr. K. Anuradha, Head, Department of Microbiology & Head for Life sciences followed by Ms. Anju Nair, Science club coordinator.

Fourteen teams where each team consisted of two candidates participated with great enthusiasm. The quiz was conducted in four rounds. The first round had twenty questions carrying one mark, with four options each. The participants were given thirty seconds to project their answers. It was great to see every participant energetically delivering their answers.

The second round increased the joy by posing twenty more questions to state true or false and justify the answer based on their knowledge and understanding. After the completion of the second round, the scores were disclosed. Based on the scores obtained by each pair the best six pairs were selected.

The third round required good observation and picture perception. In this, the pictures related to different branches of science and technology were displayed on the screen. Each question carried one mark. This triggered the scientific brains and turned out to be an engrossing round for the participants. On the account of completion, shortlisted five pairs were prepared to go for the next round.

The fourth round was riveting which pumped up the swiftness and zeal of every participant, as this was the final step for all to decide their destiny.

Every correct answer supported two marks and the incorrect deducted one from the existing score. On the completion of this round, the winners were declared and the prizes were distributed.

The first place was secured by Pranati R Mulik of MNDC III year, second runners up were Sai Siddarth and Farshan Shaik from BTGC II year and the third runners up were B. Harini and Khushi Singh from BTGC III year. By congratulating the winners and participants, the event ended successfully.





First place was secured by Pranati R Mulik of MNDC III year



Second runners up were Sai Siddarth and Farshan Shaik from BTGC II year



Third runners up were B. Harini and Khushi Singh from BTGC III year





## Teachers day Report.

Teachers day is celebrated on the 5<sup>th</sup> September each year on the auspicious occasion of the birth of India's first Vice president and second president Dr.Sarvepalli Radhakrishnan who was known as an amazing teacher of his time. Commemorating his birthday, teachers day was celebrated at Bhavan's Vivekananda College on the 5th of September, 2022. The event was organized by the Department of Genetics, Biotechnology and Chemistry.

The function started by lighting the lamp by Vice chairman Air Commodore JLN Sastry VSM (Retd) ,Our Officiating principal Mrs. B. Niraimathi and the Head of the departments of the college followed by Bhavan's prayer. Ganesh Vandana was recited invoking god's abundant blessings and grace by Dr.B.kalpana from the department of Genetics and Biotechnology.

Vice Chairman addressed the gathering and reciprocated his good wishes to the entire faculty. He encouraged the teachers to rededicate themselves for excellence in their profession in the years ahead so that students under their care develop impeccable character, courage in the face of difficulty, sound knowledge of subjects, honesty, sincerity, hard work, devotion to duty , patriotism , strength of body and mind and being ever ready to serve our motherhood at all times to the extent of facing any difficulty and even sacrificing one's life.

Mrs.B.Niraimathi, officiating Principal, congratulated the faculty for the good results obtained by the college for the last academic year 2021-2022 and motivated all to strive hard to do their best to make each student's academic progression better and to take the institution on higher grounds.

We had Mrs.Madhuri Mathur , Head, Department of Languages to enlighten the gathering about education and its impact on students followed by Mr.Soumesh Routray , Faculty of Computer science thanking the management for giving him the oppotunity to be a staff and be a part of the bhavan's family.

Splendid performances awaited as a part of the cultural program. Dr.B.kalpana from the Department of Gentics and Biotechnology melodiously and beautifully sang a song , Mrs.Sanathi Priya from the Department of Mathematics and statistics played three heart touching veena recitals and Mr.kaleemullah from the Department of Commerce performed a Mime on "Teacher's Life". Fun filled quiz conducted by Dr.Sushma Patkar and Mrs.Prerna engaged the audience vibrantly . The decorations and the setup of the event, headed by Dr.S. Nagamanju and Dr.Aruna Priya caught everyones attention and appreciation. All of these were well appreciated and rewarded with a huge round of applause.

Mrs. Mary Nygi Kurian ,Head, Depatment of Chemistry concluded the event by proposing the vote of thanks.











## **Report on Sale of Eco-friendly Ganesha on August 29th, 2022**

The Department of Genetics and Biotechnology conducted the Sale of Eco Friendly Ganesha event as part of the greENERGY club activity. The event was organized on **29th August, 2022** at 2:00 pm at Science Quadrangle. It started with the address by Coordinator of the event, Dr Jyothi Nayar regarding the objectives of the club. An inaugural dance was performed by Ms Shreya Bhasker of II year BTGC, a group song, followed by flash mob by the II year BTGC & MbGC students. The event began by inviting the Officiating principal Mrs B Niraimathi, BVC for the purchase of a Ganesha idol. She conveyed her best wishes for the event. Then the stall was open for everyone. The idols were made of clay/mud and embedded with seeds. This would help in easy immersion at home in a bucket/pot of water thereby the seed shall sprout after a couple of days. The motto behind the activity is to spread awareness among students regarding the impact of environmental pollution caused due to immersion. The Plaster of Paris based idols cause huge harm to the water ecosystem.

The number of idols purchased were 80 of two sizes ie., 6” and 10” respectively. The total number of idols sold were 132 of which some were of previous years of size 12”.

As part of the event, an Elocution and poster making competition was conducted with the theme “A revolutionary idea on green India initiative”. A total of 40 students were shortlisted out of 102 participants registered for both the events. The events witnessed huge response from all the students of the college. The elocution competition was judged by Mrs Manali Bose and Ms Aishwarya and Mrs Prachi Nath was the judge for Posters, all faculties from the department of Languages.

The prize winners for elocution were: 1. Alekya MGC II year

2. Jyothi HBA II year

The prize winners for Poster making were:

1. Shreya BtGC II year

2. Radha Prasannam BTGC Year

The prize winners were felicitated the next day for their enthusiastic participation during the assembly.





Dr.Jyothi Nayar presenting a clay Ganesh idol to a student.



Volunteers presenting a token of appreciation to Judge Mrs.Prachi Nath



Volunteers presenting a token of appreciation to Judge Mrs.Manali Bose and Ms.Aishwarya



greEnergy Team


**Bhavan's Vivekananda College**  
 of Science, Humanities & Commerce, Sainikpuri, Secunderabad - 500094  
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**ON THE OCCASION OF GANESH CHATURTHI**  
**The GREenergy CLUB presents**  
**"ECO-FRIENDLY BAPPA"**  
**SALE OF ECO-FRIENDLY SEED GANESH IDOLS**

**SIZES AVAILABLE:**  

 1) 6 INCH  
 2) 9 INCH



**THEME: GO GREEN GANESHA!**


**29 29th August 2022**


**- 2:00 PM ONWARDS**


**- SCIENCE QUADRANGLE AND IT BLOCK**

**FACULTY CO-ORDINATOR: DR. JYOTHI NAYAR**    **STUDENT CO-ORDINATORS:**  
**KARTHIK : 9985199961**  
**SATYAPRASAD : 8341354198**

Flyer of Sale of green Ganesh

## SALE OF GREEN GANESHA AUGUST - 2022

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### List of Volunteers – Semester III

1. Karthik Raj- MbGC- 107221459043
2. Satya Prasad. S - MbGC- 107221459037
3. Darrshana.M- BtGC- 107221573042
4. Shreya Baskar- BtGC- 10722157037
5. Calvin Kathi- BtGC- 10722157043
6. Abhisheka Dash- BtGC- 107221573018
7. Anirvin Reddy - MNDC- 107221545016



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Sainikpuri, Secunderabad – 500094

Date: 26-05-2022

Report on "Save Soil" An Awareness Programme on soil conservation

The Green Campus Program organised an awareness program on soil conservation in association with Isha Foundation. The program was held on 24-5-22, in room no 71, Biochemistry Block, BVC. Volunteers of save earth project from Isha Foundation were the resource persons headed by Mr Arun Kumar. The program started by welcoming the Isha foundation representatives by plant hamper.

Prof Y Ashok, Principal, BVC, welcomed the guests in his address. He appreciated Sadguru for taking up initiative of saving soil. He informed that world will face disaster if soil is not conserved. He urged the students to watch Sadguru's videos. Mr Arun Kumar while addressing the audience informed that 'Save Soil' is one of the biggest movements on soil awareness, He told that the present organic content of soil is less than 0.5% and soil is decertified. He urged the students to spend 5 minutes every day on social media for saving soil.

A short video by Sadguru was played highlighting soil conservation. "Let's make it happen" was the tagline of the video. Students were deeply motivated and pledged to become Earth Buddies. The program ended with an interactive question and Answer session. Dr Y Aparna, Secretary, GCP, proposed the vote of thanks. The program was attended by 100 enthusiastic participants including NCC, NSS and Bharath Scouts and Guides GCP members. The members of Isha Foundation engaged the students with a flash mob followed by Nukkad natak.



Prof Y Ashok, Principal, BVC, giving away Plant hamper to members of Isha Foundation



Audience watching the video by Sadguru



Students enjoying the flash mob



Group Photo of participants with members of Isha Foundation

## National FDP on “Voyage from Genes to Genomics”

November 12<sup>th</sup> - 18<sup>th</sup>,2021

A National FDP on “Voyage from Genes to Genomics” was organised from 8<sup>th</sup> to 12<sup>th</sup> November 2021 by the Department of Genetics and Biotechnology, Bhavan’s Vivekananda College of Science, Humanities and Commerce, Sainikpuri , Hyderabad.

The objective of the FDP is to impart knowledge and skills in the frontier areas of Genetics and Biotechnology to enable faculty to gain greater insights in these fields which would be useful for teaching as well as research.

Prof. Y.Ashok Principal, BVC appreciated the faculty for taking an initiative to conduct a FDP program in order to update faculty with the latest technologies in the field of Science. He extended his wishes for the successful conduct of the FDP programme. The total number of participants attended was 80 on an average, each consecutive day of the FDP.



Fig 1:Inaugural Session

Day 1

<https://drive.google.com/file/d/1JCLbEWbuTSL9UoDaCKMIRtJ8Dq8yPM4b/view?usp=sharing>

- Prof. K. Thangaraj

The keynote address was delivered by Prof K Thangaraj, Director CDFD, Hyderabad. He said India is an ethnic museum indicating the immense diversity in our population. He emphasized on the role of Mitochondrial genome inheritance paving way in the evolution of the human race. His studies based on Principal component analysis revealed that Andamanese and African were found to be the founders. Also established through his work that Jewish and the Parsis had affinity to the Indian population. He also mentioned that the lacuna due to Archeological survey can be overcome by relying on genome information. His work provided an insight into Ancestral south and North Indians as the two founder populations. His work on Jewish and Finnish populations based on IBD analysis indicated the accumulation of recessive diseases due to endogamy. He urged that Investigations on ‘Population specific diseases in India’ can be undertaken by the young researchers.

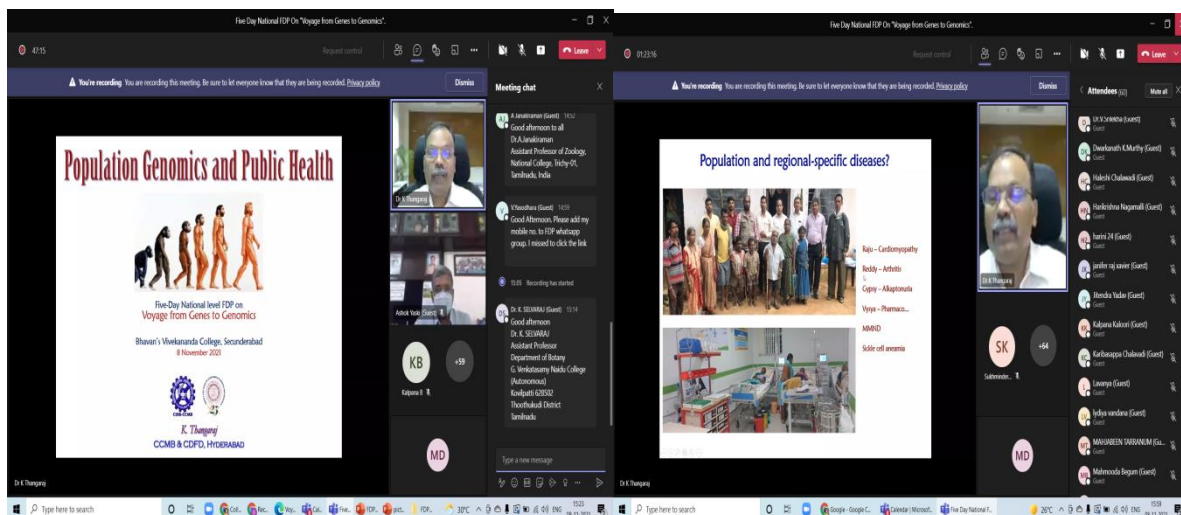


Fig 2: Title of the lecture.

Fig 3: Prof. K. Thangaraj's presentation.

- Dr. H. Surekha Rani Associate Professor, Vice-Principal, University College of Science & Chairperson-Board of Studies In Genetics. Department of Genetics &



Biotechnology, OU, emphasized that attending this FDP will pave a way for knowledge explosion in various subjects and concepts. She urged everyone to celebrate the two hundredth birthday celebration on July 20th, next year as G.J.Mendel was born on 20th July 1822. She also explained about the Human Genome Project paving a way to establish the function and disease mechanism. She motivated the participants to encourage their students to do research on human DNA.

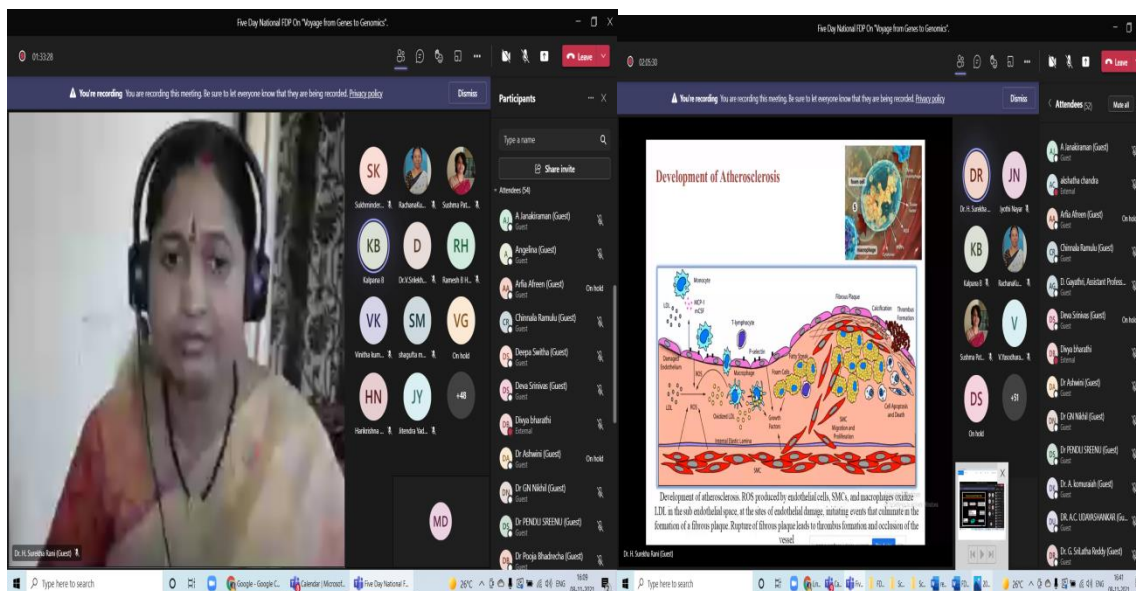


Fig 4: Dr. H. Surekha Rani In her Talk

Fig 5:Dr. H. Surekha Rani's Presentation

Day 2

[https://drive.google.com/file/d/1GIN3\\_bkxTybRT\\_6T8fdbNSxnSnXkIFo2/view?usp=sharing](https://drive.google.com/file/d/1GIN3_bkxTybRT_6T8fdbNSxnSnXkIFo2/view?usp=sharing)

- Dr. Amitava Das

Dr. Amitava Das from CSIR-IICT, Hyderabad delivered a lecture on Stem Cell Gene Therapy- Advances in Scarless Skin Regeneration using the mouse model. He started his lecture by discussing the consequences of diabetes in general and reiterated that 20-40 million people globally suffer from Diabetes associated complications that include delayed wound healing, foot ulcers, foot deformities and neuropathy. Therefore, treatment strategies, like skin transplantation associated with exogenous application of growth factors is though practiced, has considerable adverse effects. Hence, stem cell therapy is a better and preferable intervention. Their study on the role of CD117+ cells' potential to differentiate into different bone marrow cells with better proliferation ability has given promising results. They observed that Hepatic progenitor cells transdifferentiate into different types of cells of which the exogenous stem cells based on the vehicles used were found to be relatively better than the endogenous stem cells. He had been instrumental in the development of PEG-PU scaffold that has a huge demand in stem cell therapy. He also discussed the role of chemokine receptors in inflammation as a novel approach. Development of a chronic wound model for therapeutic transplantation of Mesenchymal Stem Cells with Cxcs6 gene therapy in diabetic mice was found to be more effective due its relative ability to be delivered to the site of injury without forming scars that was evident from his work.

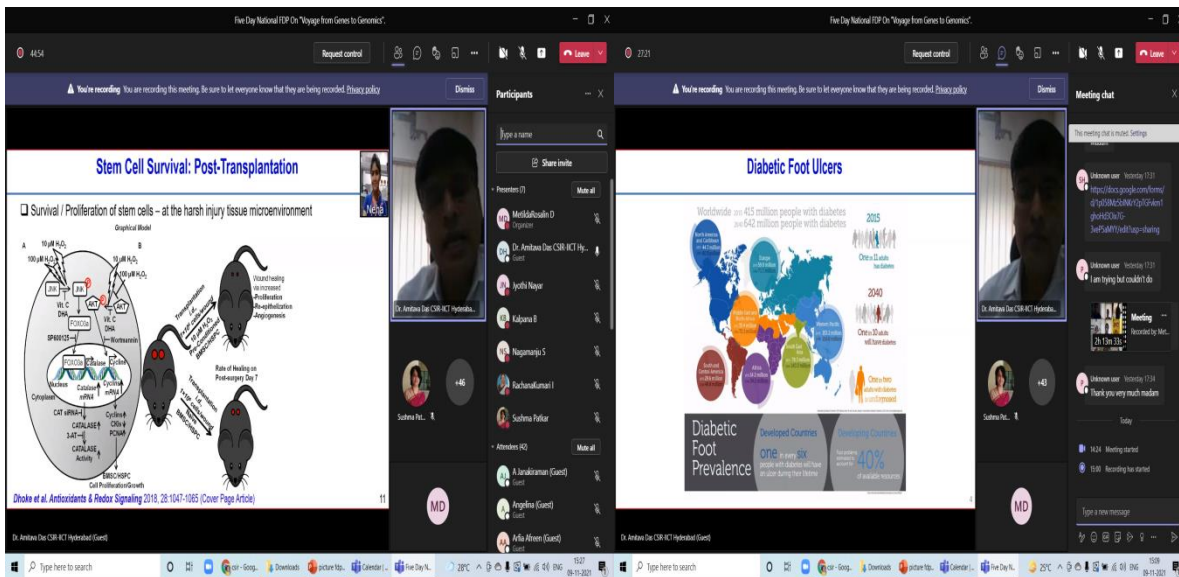


Fig 6 & Fig 7: Dr. Amitava Das's Lecture Presentation.

- Prof. P. Hanmanth Rao (Retd), Department of Genetics, OU

Discussed the Totality of all individuals under considerate quality of population, Numbers that summarize data for the entire population, Sample statistics, Unbiased number of statistics taken from a population. He explained about the different methods of sampling and stated that using sampling methods will have greater accuracy as it represents the population.

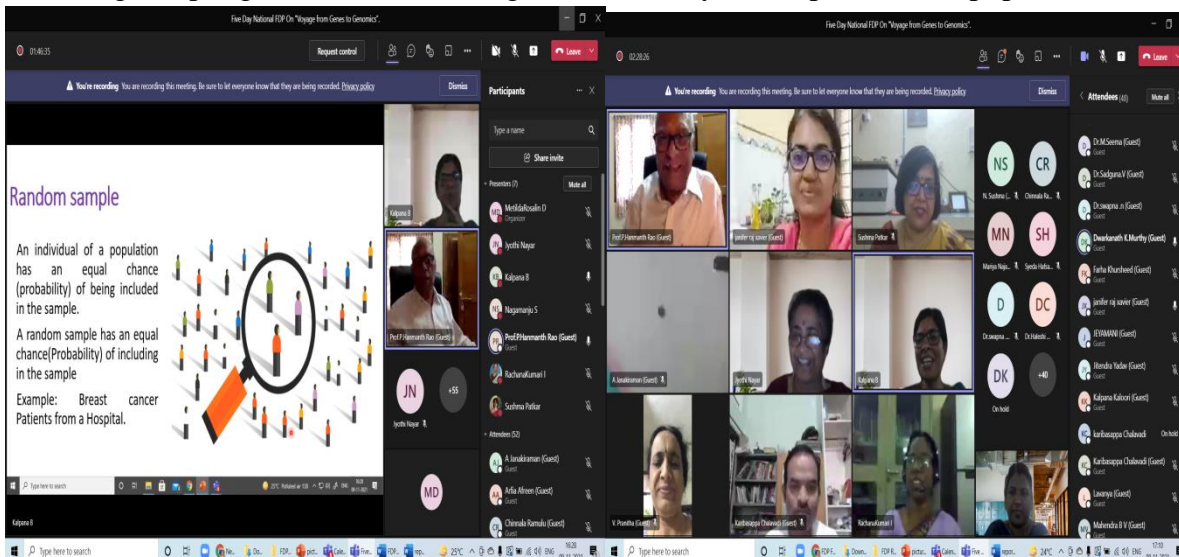


Fig 8: Prof. P. Hanmanth Rao's presentation.

Fig 9: Prof. P. Hanmanth Rao addressing the gathering to clarify doubts.

Day 3

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- Dr. V. Sritharan Director, NanoDx Healthcare Pvt Ltd, Technology Development Incubation Centre, IIT -Delhi, Haus Khas, New Delhi-16

focused on the connection breakup between the two genomes of mitochondria and nucleus. Cells cannot make DNA and RNA on their own without mitochondria. Mitochondria help in storing calcium, energy generation/production and cell death. Most of the diseases in mitochondria are due to mutations in nuclear genes and the way they are transported. Consequences of mitochondrial mutations give rise to genocopies and phenocopies. He quoted some examples of mitochondrial diseases and said that primary mitochondrial mutations are due to germline mutations either in Mitochondria or nuclear genes. Mitochondrial polymerase (Gamma) is of importance in replication and the role of Twinkle protein in unwinding of mitochondrial DNA. He observed that secondary Mitochondrial diseases (SMD) are more prevalent than Primary Mitochondrial diseases (PMD). Statins deplete Coenzyme Q10 among hypercholesterolemia patients leading to SMD. ROS damages DNA, protein, fats which in turn impair the functions of mitochondria. Alteration in mitochondrial fusion/fission leads to neurodegenerative diseases. Lastly, he concluded that treatment of mitochondrial diseases is currently unavailable. However, treatments administered are vitamin/ mineral supplements, exercises. Habits like alcohol, smoking. Stress and also linked with mitochondrial diseases. His interpretation that no two patients will respond in a similar manner. He concluded that there are 1500 genes involved in the critical functioning of mitochondria.



Fig 10 & 11:Dr. V. Sritharan’s lecture presentation.

- Dr. A. Venkateshwari I/C Director, Institute of Genetics & Hospital for Genetic Diseases, OU, Begumpet, Hyderabad.

She mentioned the indications for cytogenetic analysis and enumerated the methods of chromosome analysis, Chromosomal nomenclature. She also shared the notation we need to follow for chromosomal constitution. She stated that errors in mitosis, meiosis and cell division leads to genomic imbalance and that Molecular cytogenetics improves the detection of chromosomal aberrations. She gave a comprehensive insight on FISH, Comparative Genomic hybridisation, Spectral karyotyping, Spectral color banding relating to lymphoma patients.

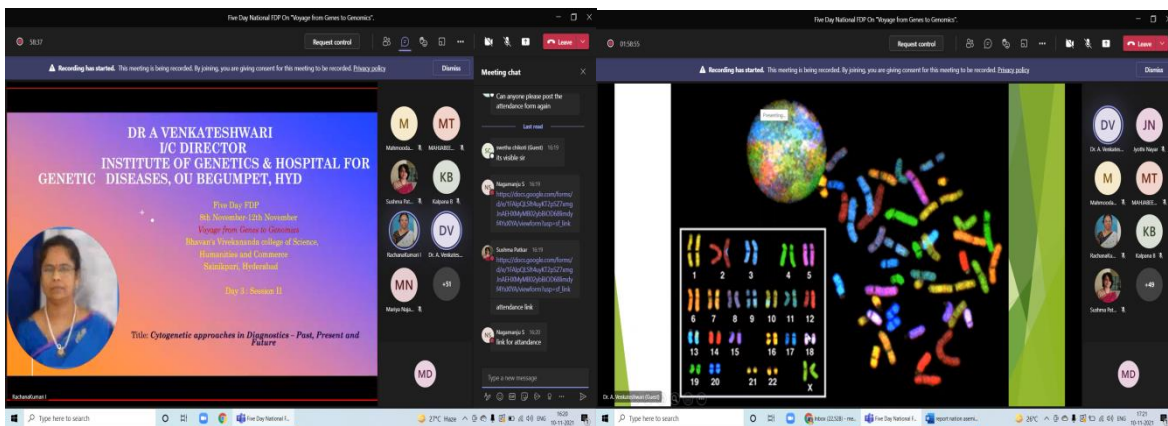


Fig 12 & 13 Dr. A. Venkateshwari’s Lecture presentation

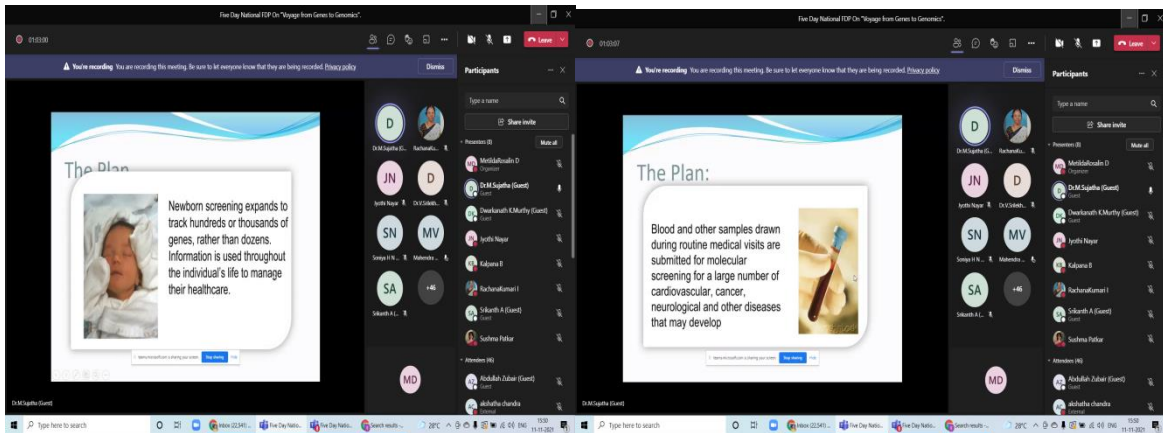
#### Day4

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- Dr M Sujatha, Senior Medical Consultant, Institute of Genetics & Hospital for Genetic Diseases, OU, Begumpet, Hyderabad.

emphasized on Wellness and its importance. The role of optimum state of 6 fillers of wellness as physical, mental, spiritual, emotional, environmental and intellectual. She also mentioned that Wellness is holistic and spiritual. She discussed the importance of epigenetic regulators in mental retardation. She also explained the relationship of genes in physical activity and its

impact on health. Exercises must be tailored based on the genetic makeup of individuals indicating the need for personalized medicine. She addressed the necessity of newborn screening as a strategy for personalized medicine and its prospects in future.



Fi 14 & 15 :Dr M Sujatha’s lecture presentation.

- Dr. A Srikanth Clinical Genomics Scientist Invitae, USA

explained about the various aspects of clinical variant interpretation such as gene – disease association, gene curations, variant interpretation, reporting, laws of function variants, missense variants, truncation variants, splice site variants and challenges in variant interpretation. He specifically gave the example of Li- Fraumeni syndrome, a type of cancer caused due to mutations in TP53 gene.

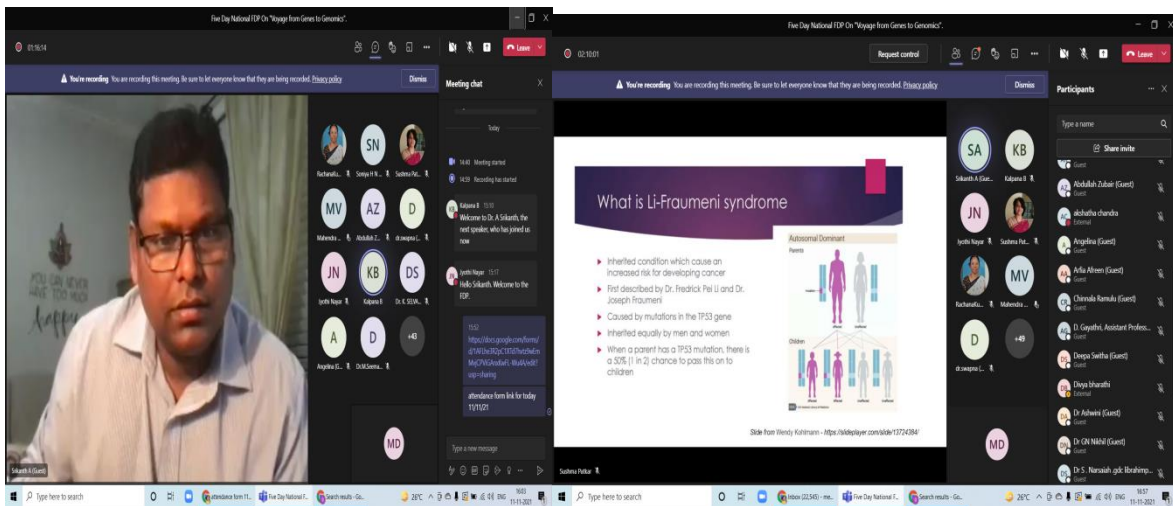


fig 16 & 17: Dr. A Srikanth's lecture presentation.

## Day 5

<https://drive.google.com/file/d/1xREF-4X60cGxVI-6KFwqyfRo-QxqQTyI/view?usp=sharing>

- Dr. Zahoorullah S MDDr. Zahoorullah S MD  
Chief Innovation Officer  
Atal Incubation Centre  
ALEAP WE HUB  
Supported by AIM NITI AAYOG GOI  
Hyderabad

gave an overview on Types of databases: Primary secondary and tertiary databases. The different components of the dashboard of various sites like NCBI, PDB and DDBJ. Generally used software's are BLAST, FASTA and CLUSTAL-W. How to search the DNA or Protein sequences from the Databases and the steps involved. Also briefly described the uses of Pairwise alignment, Multiple sequence alignment and construction of phylogenetic tree.

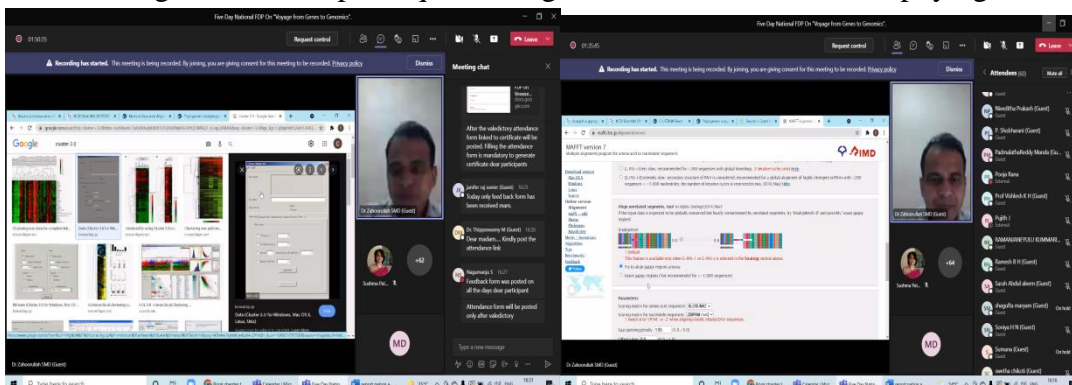


Fig 18 & 19:Dr. Zahoorullah's lecture presentation.

- Dr.Vasavi Mohan.Consultant Geneticist ,Apollo Health care and lifestyle ,Hyderabad.

stated that we live in times where genetics is a household word. She reminded that the 21st century has been a period of landmark discovery and that researchers world over are working around a multitude of questions and henceforth came with remarkable contributions .She confirmed that the genomics of the future must be a genomic for all, regardless of ethnicity ,geography or ability to afford.She urged us to update ourselves with the knowledge of advances and future challenges.

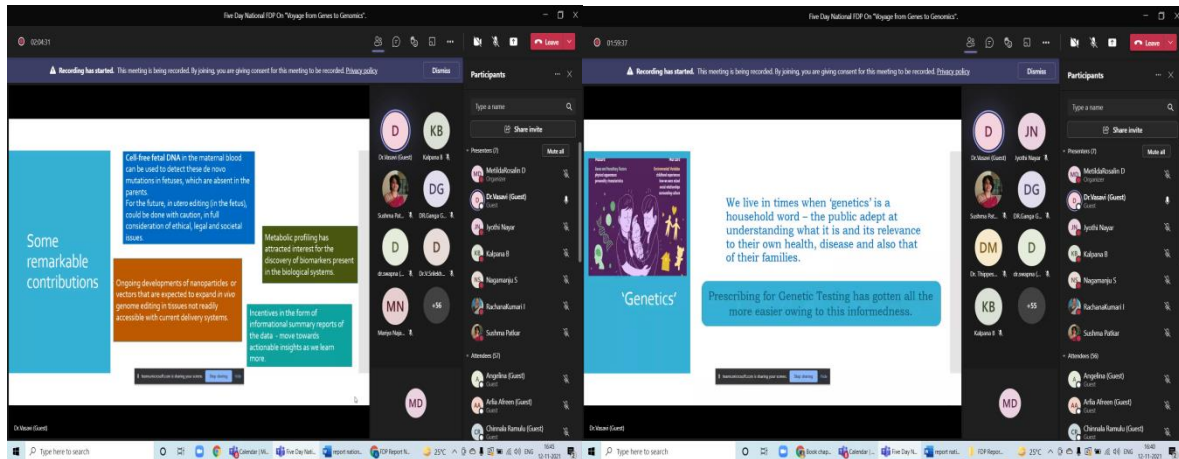


Fig 20 & 21: Dr.Vasavi Mohan’s Valedictory address.

The program concluded with the report by Dr.Jyothi Nayar,Head,,Department of Genetics and Biotechnology and Vote of thanks proposed by Dr.B.kalpana.

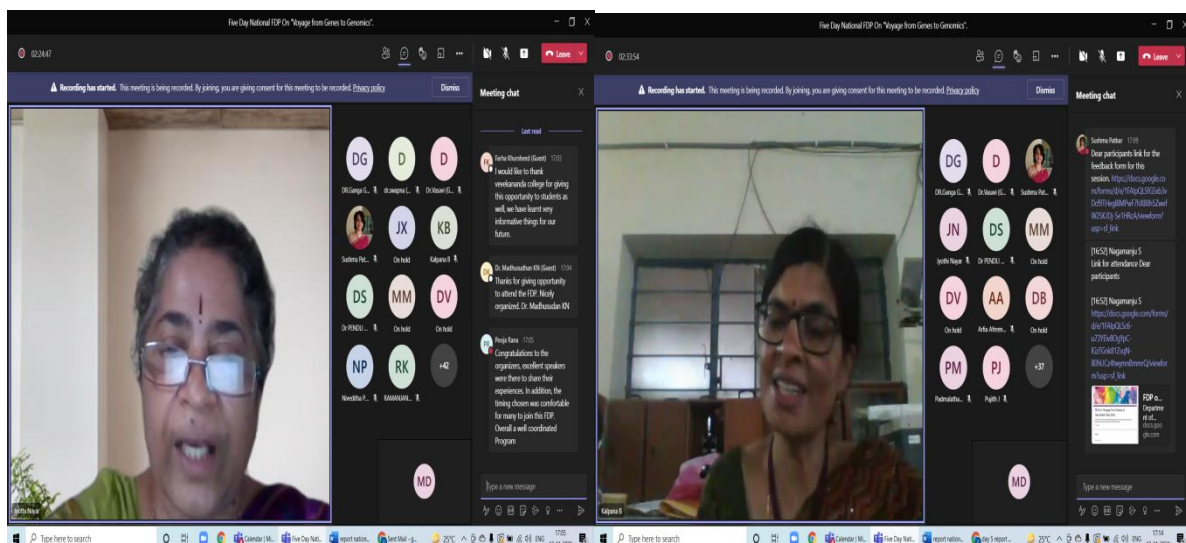


Fig 22: Dr Jyothi Nayar presenting the FDP report

Fi 23: Dr.B. kalpana proposing vote of thanks.

The participants appreciated for organizing this National FDP with such eminent scientists and confirmed that it was truly an enriching session.

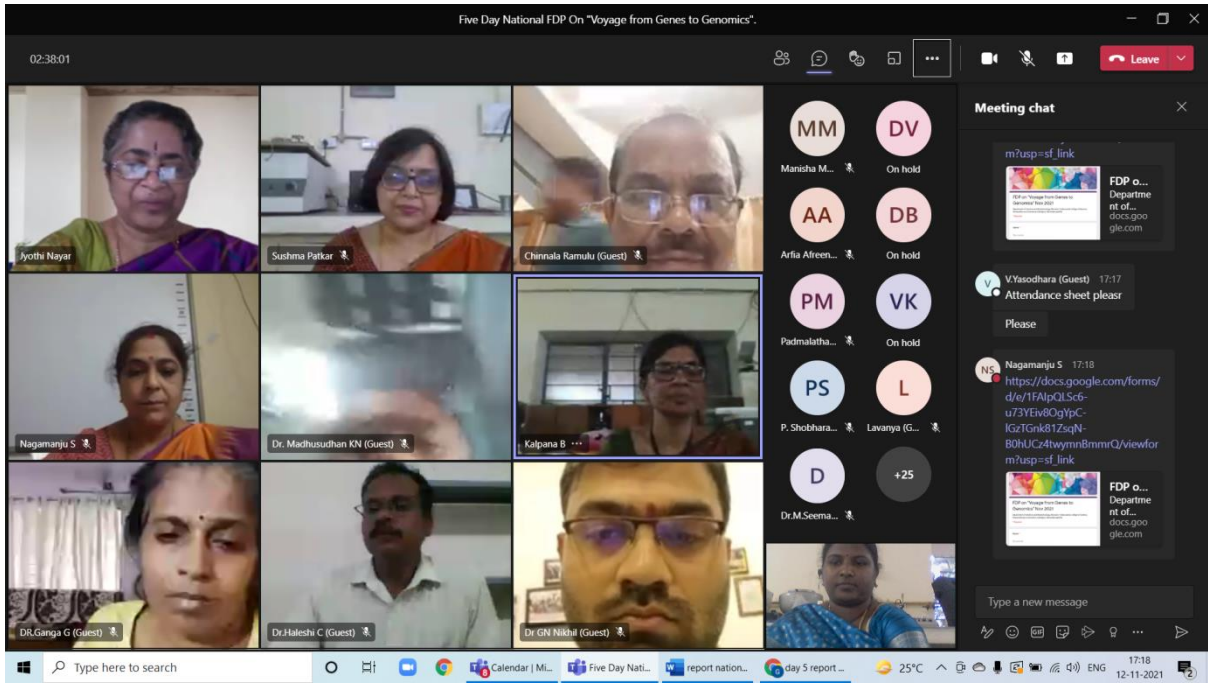


Fig 24: FDP participants expressing their appreciation for organizing this program.

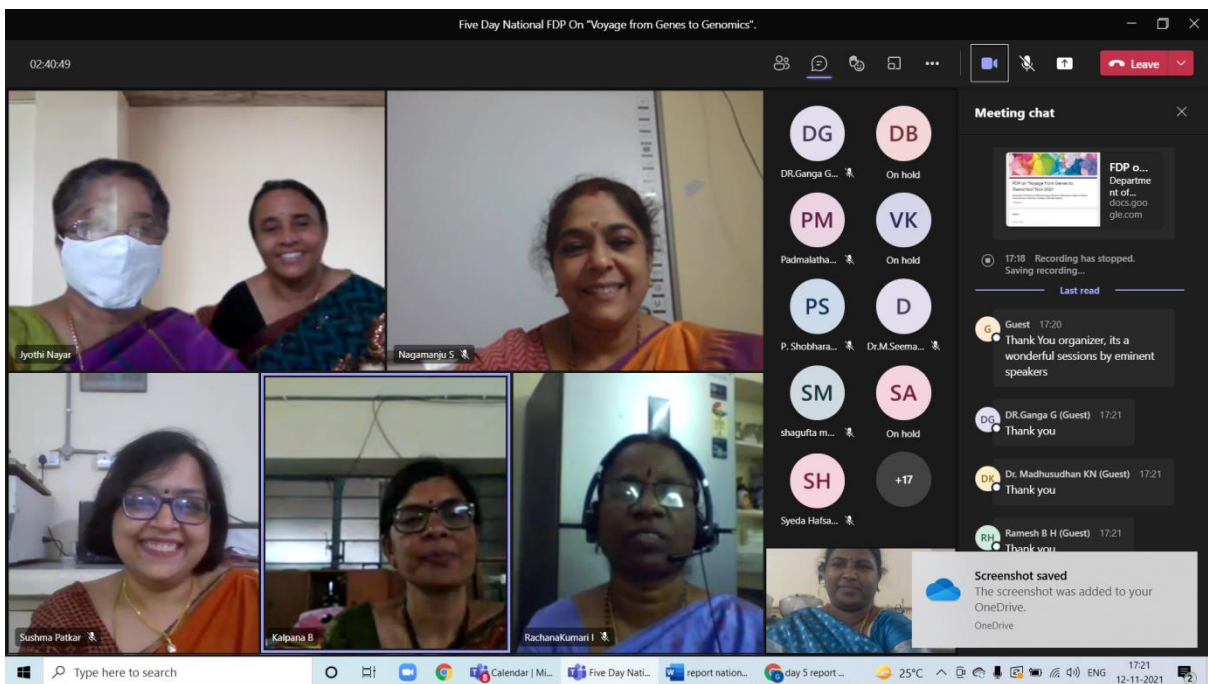


Fig 25 : Department of Genetics and Biotechnology members at the outset.





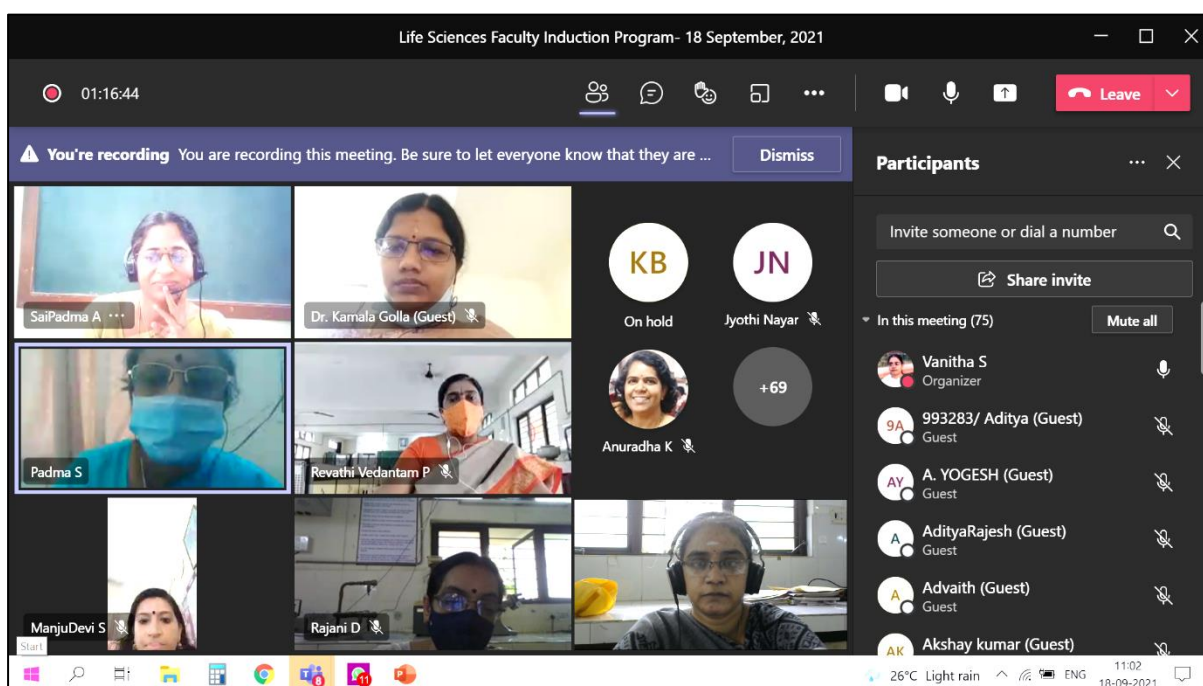
**Report on**  
**Orientation Programme “Career in Life Sciences”**  
**18<sup>th</sup> September, 2021**

Faculty of Life Sciences organized an Orientation Programme on “Career in Life Sciences” for the Intermediate students to bring awareness about the career opportunities after completion of their graduation. As a part of this programme, on 18<sup>th</sup> September, 2021 at 10:00 am a faculty induction programme was organized on online mode through Microsoft Teams. Aim of this programme was to encourage, motivate and assist the young minds of various choices in educational and professional field after their graduation.

Dr. Jyothi Nayar, Incharge, Faculty of Life Sciences and Head, Department of Genetics and Biotechnology addressed the young students and gave an overview of various branches of life sciences with job opportunities available. Followed by this, Heads of all the life sciences department presented their departmental facilities, activities, achievements, infra structure and gave an opportunity to each faculty to address and guide the students.

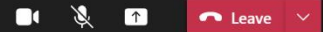
Strength of an institution is because of a strong team of alumni. They have established themselves as successful individuals in their chosen respective field. Invited alumni were Dr. Vasavi Mohan, Ms. Damini Solanki, Ms. K Saritha Reddy, Mr. Karthik Rajkumar and Ms. Aishwarya Sriram. They shared their learning experiences, opportunities that was made available to participate in various academic activities, the inevitable knowledge and guidance provided by faculty, how to utilise the resources like library, laboratory etc. With the experiences gained during their education, they described how they were able to grab the chances and excel in their chosen field.

Later the session was open for interaction. Many of the young students clarified their doubts with alumni and also with faculty. The programme came to an end with vote of thanks.



01:28:04

Request control

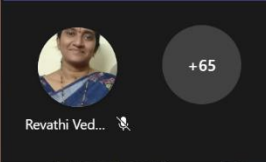
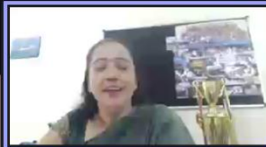


**You're recording** You are recording this meeting. Be sure to let everyone know that they are ... [Dismiss](#)

**Participants**



ManjuDevi S



Invite someone or dial a number

[Share invite](#)

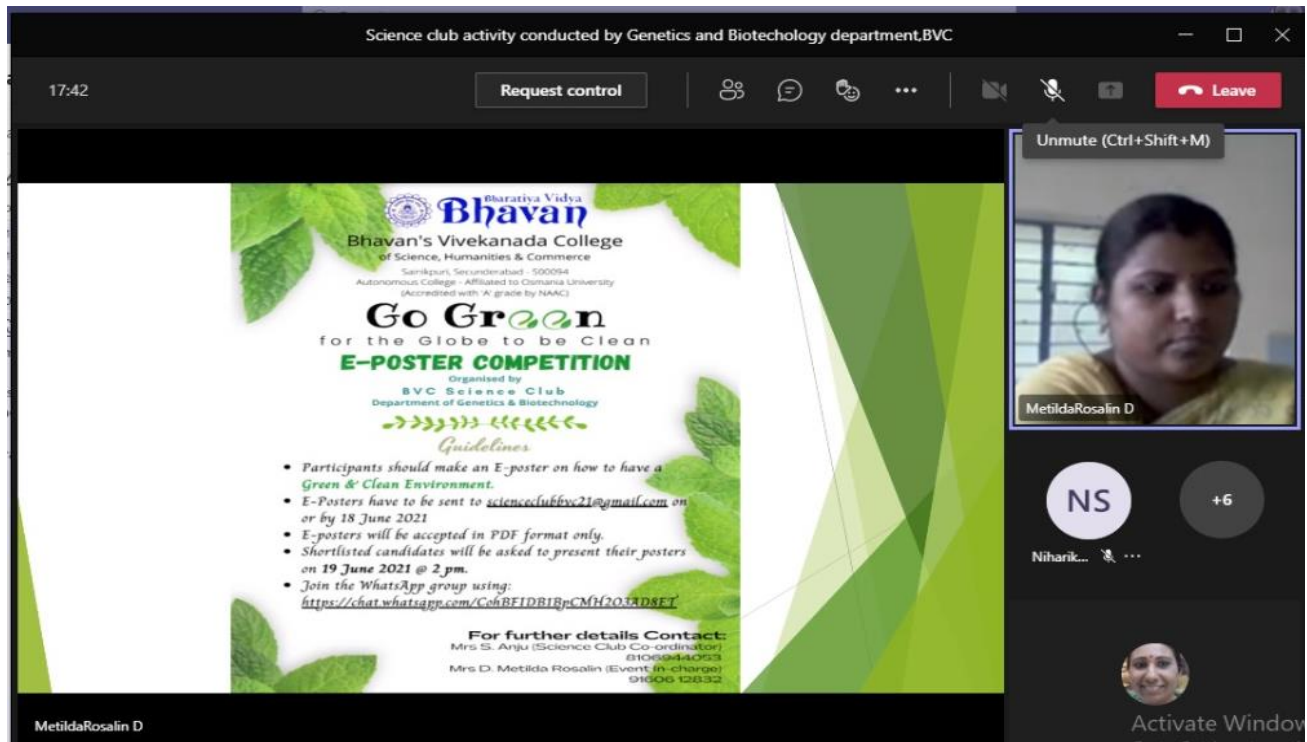
In this meeting (68) [Mute all](#)

- Vanitha S Organizer
- 9A 993283/ Aditya (Guest) Guest
- AY A. YOGESH (Guest) Guest
- A AdityaRajesh (Guest) Guest
- A Advaiith (Guest) Guest
- AK Akshay kumar (Guest)

## Science Club - e-Poster Presentation.

The Department of Genetics and Biotechnology organized an e-Poster event for Science club on Saturday, 19th June 2021, titled “Go green for the globe to be clean”. This event was conducted to bring awareness on protection of the environment.

Ten students were shortlisted of which A. Sai Shiva Shankar of MGC 1st Year, J. Chandana of BTGC 2nd year and Anjani Jaya of BTGC 2nd year, Lasya of BTGC 2nd year secured first, second and third prizes respectively. Thirty-three students participated in the event and agreed the event was an eyeopener and certainly a need of the hour.



The screenshot shows a Zoom meeting interface. The main content is a slide titled "Go Green for the Globe to be Clean E-POSTER COMPETITION". The slide is organized by the BVC Science Club, Department of Genetics & Biotechnology, at Bhavan's Vivekanada College of Science, Humanities & Commerce. The slide includes guidelines for participants, such as making an e-poster on how to have a green & clean environment, sending it to scienceclubbvc21@gmail.com by 18 June 2021, and joining a WhatsApp group. Contact information for Mrs. S. Anju and Mrs. D. Metilda Rosalin is also provided. The Zoom interface shows a video feed of a participant named Metilda Rosalin D. and a list of other participants including Niharik... and +6.

Science club activity conducted by Genetics and Biotechnology department,BVC

17:42

Request control

Unmute (Ctrl+Shift+M)

MetildaRosalin D

NS +6

Niharik... ⋮

Activate Window

MetildaRosalin D

**Bhavan's**  
Bhavan's Vivekanada College  
of Science, Humanities & Commerce  
Sainikpur, Secunderabad - 500054  
Autonomous College - Affiliated to Osmania University  
(Accredited with 'A' grade by NAAC)

**Go Green**  
for the Globe to be Clean  
**E-POSTER COMPETITION**

Organised by  
BVC Science Club  
Department of Genetics & Biotechnology

*Guidelines*

- Participants should make an E-poster on how to have a Green & Clean Environment.
- E-Posters have to be sent to [scienceclubbvc21@gmail.com](mailto:scienceclubbvc21@gmail.com) on or by 18 June 2021
- E-posters will be accepted in PDF format only.
- Shortlisted candidates will be asked to present their posters on 19 June 2021 @ 2 pm.
- Join the WhatsApp group using:  
<https://chat.whatsapp.com/CobBFIDBIBpCMH2O1AD8ET>

**For further details Contact:**  
Mrs S. Anju (Science Club Co-ordinator) : 9106944063  
Mrs D. Metilda Rosalin (Event in-charge) : 91606 12032

Prize winning e-posters

First- A. Sai Shiva Shankar - MGC I



Second- J. Chandana - BTGC I



Third- Anjani Jaya - BTGC II



Third - P. Lasya- BTGC I



# **Report on WORLD ENVIRONMENT DAY celebrations - 5<sup>th</sup> June 2021**

**Bhavan's Vivekananda College of Science, Humanities and Commerce celebrated World Environment Day on 5<sup>th</sup> June to create awareness about the UN decade on "ecosystem restoration" with the theme of "Reimagine, Recreate, Restore" to prevent, halt and reverse the degradation of the diverse ecosystems on Earth. The aim of the celebration was to give an opportunity to students to express their ideas to conserve mother nature and to discuss significant issues related to environment and sustainable living.**

**The Program was coordinated by Dr S Nagamanju, Asst. Prof. in Biotechnology, under the guidance of Dr Jyothi Nayar, Head, Department of Genetics and Biotechnology. On this occasion, Principal Prof. Y Ashok gave his valuable message to the staff and students highlighting the need to take steps to save Mother Earth. Vice Principal, Ms B. Niraimathi, also gave her valuable message on the occasion. Dr Jyothi Nayar, Coordinator of the event, enlightened everyone on the global efforts to conserve nature.**

**As a part of the World Environment Day celebrations, various departments of the college were actively involved in bringing awareness among students through various activities.**

- 1. The Departments of Life Sciences conducted a Quiz on Environment Sustainability and e-Waste Management on Kahoot platform. The quiz competition was organized by quiz master, Adimula Sai Shiva Shankar from MbGC 1<sup>st</sup> year. The quiz competition was open to all and consisted of 40 questions. The quiz had a huge participation of 240 members with an average score of 85%.**

- 2. As a part of the celebration, Dr. S Nagamanju, the coordinator for the event gave a presentation on the cultivation of fresh microgreens that can be grown in simple plastic waste containers on cellulosic paper with minimal use of water. The organically grown microgreens can enrich dishes with nutrition and taste.**
  
- 3. As part of the World Environment Day celebrations, students of Department of Management Studies gave presentations on the theme- Climate Change. A total of 13 teams from BBA and MBA participated. The students spoke on various topics that included:**
  - Global Warming**
  - 10 Actions to be implemented by companies to reduce climate change**
  - Human impact on environment**
  - Green House effect**
  - Causes and effect of climate change**
  - Human impact on environment**
  - Ecosystem Restoration**
  - Melting Glaciers**
  - Climate Risk index 2021**
  - Sustainable development**
  - Indicators of climate change**
  - Overview on Climatic changes**
  - Impact of Climate change on Nature and Wild life**
  
- 4. The students from Physical Sciences (MECs IA, IB and IIB) gave presentations on e-Waste Management.**
  
- 5. The BCA II Year students of Fusion Tech club gave presentations on energy conservation. They gave interesting presentations on various methods to reuse and conserve energy. Students proposed various models such as extension of solar panels with capacitors, IoT applications for pool ride and smart switch to conserve electricity.**

- 6. The Department of languages, in coordination with the We For E Team, presented a short video on ‘Strategies for Water Management’, to raise awareness on the amount of fresh water available on Earth, and the possible threats that life on earth is likely to face in the coming times. The BA and MSCs students of second year actively participated in the video making.**
  
- 7. The Department of Commerce, along with Voice - the Commerce Club, came up with the idea – Spruha: Go green with passion and save the environment, you must be the change you wish to see in the world. Students presented their ideas through poster presentations, best out of waste DIYs, and videos on plantation of saplings.**

**The World Environment Day celebration saw a very enthusiastic participation by students of various streams enlightening the gathering on various burning issues on environment. They came up with innovative ideas of managing e-waste, conserving energy by vehicle pooling, growing of plants in balconies, maintaining indoor plants to purify air and so on.**

**At the end of the event, the winners of the quiz were announced. The winners were: 1. Srila of MNDC-1, 2. Nanda K of MPCs 1A and 3. Suruchi of BBA-1B. The first prize was a Lifestyle gift voucher of rupees 500. Certificates were given to the second and third prize winners.**



World Environment Day-20210605\_092934-Meeting Recording (1).mp4 - VLC media player

Media Playback Audio Video Subtitle Tools View Help

world environment day program: x +

mail.google.com/mail/u/0/#inbox/QgrclHsNmHNdMhGWjgStnzTzdfgQpvlwb?projector=1&messagePartId=0.1

World Environment Day Celebrations- Program Schedule.doc

Open with

1 of 2

World Environment Day Celebrations- Program Schedule.doc

**Bhavan's Vivekananda College  
Of Science, Humanities and Commerce  
World Environment Day 2021**

**Date: 5<sup>th</sup> Jun, 2021**

**Virtual Celebrations (Microsoft teams)**

**Time: 2.30. Pm**

**Program Schedule**

- Welcoming the Guests
- Bhavan's Prayer
- Message by Prof Y Ashok , Principal BVC
- Message by Ms B Niraimathi, Vice Principal BVC
- Message by Dr Jyothi Nayar, Head, Department Of Genetics and Biotechnology; Coordinator – EnviroSafe; Coordinator greENERGY
- World Environment Day - Events
- Vote of thanks by Dr S. Nagamanju, Asst. Prof. Department of Genetics and Biotechnology

Page 1 / 2

02:21 4:00:00

27°C Rain showers 10:26 PM 6/12/2021

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Meeting options x | Inbox (2,642) - sushma.gh Presenting... Give control Stop presenting

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world environment day.pptm

Open with Google Slides

It Is Not Yours, nor Mine.  
It Is Ours. So, Protect  
Your Mother Who Nourished You.  
**Happy World Environment Day**

World Environment Day was established in 1972 by the United Nations Conference on the Human Environment. The conference resulted from

Page 2 / 7

03:00 4:00:00

27°C Rain showers 10:27 PM 6/12/2021

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00:51 4:00:00

27°C AQI 23 10:05 PM 6/12/2021

World Environment Day-20210605\_092934-Meeting Recording (1).mp4 - VLC media player

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**DAYS 7 TO 9/10 ALLOW THE SPROUTS TO GERMINATE UNDER SUNLIGHT IN BALCONY INTERMITTENTLY WETTING THE TISSUE BENEATH THE SPROUTS.**

34:32 4:00:00

27°C Rain showers 10:22 PM 6/12/2021

# TYPES OF E-WASTE

Scanners and Copiers

Computer Equipment

Personal Electronic Devices

Monitors and Laptops

Cell Phones

Audio / Video Equipment

Televisions

Types Of E-Waste

Coral Waters

55:14

4:00:00

27°C Rain showers

10:22 PM 6/12/2021

STRATEGIES FOR ENERGY CONSERVATION IN CAMPUS

Energy conservation has enabled Intel to save 4.5 billion kilowatt-hours of energy, resulting in a cost savings of \$500 million, all while reducing Intel's carbon footprint.

DEPARTMENT OF BCA

1:35:32

4:00:00


27°C Rain showers

10:23 PM 6/12/2021

Media Playback Audio Video Subtitle Tools View Help


## II. Nymphalidae

1. *Hypolimnys misippus* (Danaid Eggfly)




Female                      Male

3. *Junonia lemonias lemonias* (Chinese Lemon Pansy)



2. *Junonia hierta hierta* (Oriental yellow Pansy)



07:24                      42:09

27°C Rain showers                      10:34 PM 6/12/2021

Media Playback Audio Video Subtitle Tools View Help

# QUIZ REPORT

Environment Sustainability and Waste Management	
Played on	5 Jun 2021
Hosted by	SHIVA (MGC-1)
Played with	238 players
Played	40 Questions of 40 Questions

Overall Performance	
Total correct answers (%)	85.83%
Total incorrect answers (%)	15.17%
Average score (points)	33164.76 points

18:14                      42:09

27°C Rain showers                      10:35 PM 6/12/2021

World Environment Day-20210605\_132935-Meeting Recording (1).mp4 - VLC media player


Media Playback Audio Video Subtitle Tools View Help

**It's time for Results....**

**you guys excited for the winners?**

**What's the surprise 🤔**

**And the winners are...**



+43 R RB A2 ND

Varsha S. avash papra MDC, 1st year roll 26 V Jaya MDC (22) 10 Sirla MNDC (Guest) Jyothi Nayal S Shra (Guest) Nagamurthy S

19:08 42:09

27°C Rain showers 10:35 PM 6/12/2021

World Environment Day-20210605\_132935-Meeting Recording (1).mp4 - VLC media player

Media Playback Audio Video Subtitle Tools View Help

**1<sup>st</sup> WINNER**

**SIRLA MNDC-1**

**2<sup>nd</sup> WINNER**

**Nanda K Mpcs 1A**

**3<sup>rd</sup> WINNER**

**Suruchi BBA-1B**

+42

A2 A2 ND

10:35 10 Sirla MNDC (Guest) Jyothi Nayal S Shra (Guest) Nagamurthy S

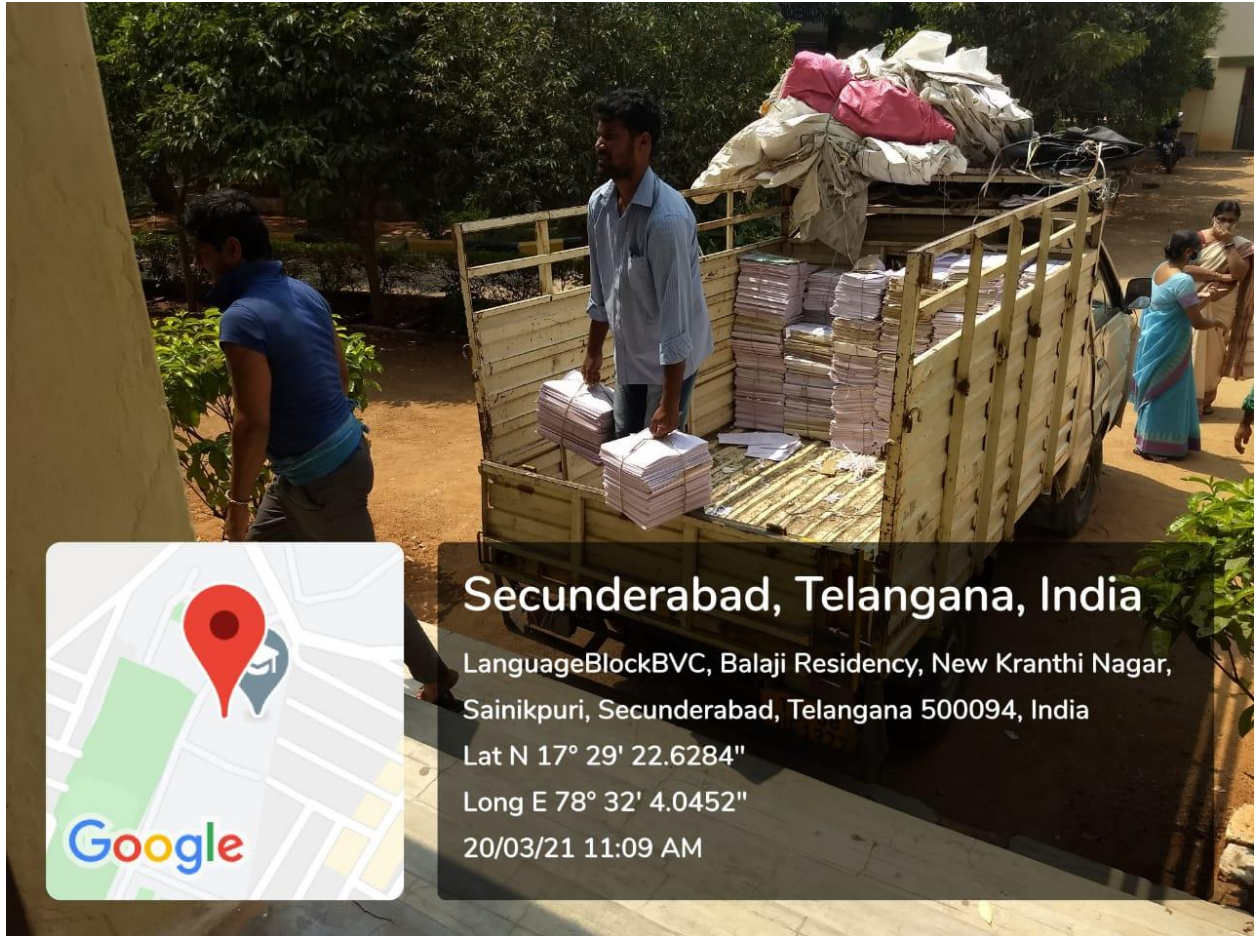
20:02 42:09

27°C Rain showers 10:35 PM 6/12/2021

## Report on recycling of waste paper 2021

Waste paper from examination branch, library and various departments were collected. A total quantity of 11730kgs collected was lifted by ITC for recycling on 20-03-2021.





## Secunderabad, Telangana, India

LanguageBlockBVC, Balaji Residency, New Kranthi Nagar,  
Sainikpuri, Secunderabad, Telangana 500094, India

Lat N 17° 29' 22.6284"

Long E 78° 32' 4.0452"

20/03/21 11:09 AM



## Secunderabad, Telangana, India

134/1, near Bhavan's Degree College, Defence Colony,  
Sainikpuri, Secunderabad, Telangana 500094, India

Lat N 17° 29' 22.4592"

Long E 78° 32' 3.858"

20/03/21 11:07 AM



## **ECO FEST 2021**

The greEnergy club of the Department of Genetics & Biotechnology, Bhavan's Vivekananda College of Science, Humanities and Commerce, Sainikpuri, organized ECOFEST on 16th Jan, 2021..

The 'gre-Energy' club of the Department conducted ecofest with the objective to be one with nature, conserve it and appreciate our planet Earth. Its stived to inculcate traditional values and culture among our youth and also reignite the use of natural and organic food products to boost our immune system. It even encouraged the use of eco-friendly products and reduce the use of plastic. The fest motivated students to walk through nature and capture its beauty and appreciate biodiversity.

The event was organized online through Microsoft teams. It was graced by the Air Cmde J L N Sastry (VSM) Vice Chairman BVB, Sainik Puri Kendra, Prof. Y Ashok Principal BVC, Vice Principal Mrs B Niraimathi, Dr Madhumita Bhattacharjee, Life Sciences Faculty in charge, Dr. Jyothi Nayar Head, Department of Genetics & Biotechnology and Coordinator greEnergy Club, Heads of the Departments, staff and students.

Eco-Fest 2021

45:10

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### ECO-FEST 2021

EVENTS:

1. ECO FRAMES
2. ECO HUNT
3. ECO SWAR
4. ECO WARRIORS
5. ECO PRINCE AND PRINCESS

Nagamanju S

+125 D MB KB CM MY

Ramana S Rachana Kumari Jyothi Nayar Nagamanju S

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15:11 16-01-2021

The significance of Ecofest was to make young boys and girls appreciate our culture, tradition and connect with nature, understand the use of organic material in their day to day life thus playing a vital role in controlling pollution and imbibe the use of eco-friendly materials in daily life. The ecofest provided a platform for students to explore their innate talents in photography, singing, communication skills and to name a few. It for using natural immune boosters.

Ecofest The event commenced with the virtual lighting of the lamp, bhavan,s Prayer, address by Sastry sir, Principal sir, Briefing of the fest by Dr Jyothi Nayar and Inaugural song by Dr B Kalpana. The Ecofest went for a week during which various events were conducted for students as part of the fest.

1. Eco frames (Glimpses of nature - home garden)
2. Eco Hunt ( treasure hunt of all eco friendly items at home in a minute)
3. Eco Swar ( classical/ Semi classical vocal on nature)
4. Eco Prince and Eco Princess (Traditional attire of Indian state)

As a Part of the fest two students, Vaishnavi MiGC Final year and First K. Sravani MNDC exhibited their culinary skills and shared the recipe of a natural immune booster that also rejuvenates the mind and body.

**Vaishnavi MiGC III yr**



**K. Sravani MNDC I yr**



The fest was successful owing to enthusiastic participation from almost 84 students of Life sciences

- 1. Eco frames** (Glimpses of nature - home garden), Eco frames featured photographs taken by students from their balcony or garden. 47 students took part in eco frames and captured some of the best forms of nature. The prize winners are

**I Diksha V BtGC II yr**

**II Aryan Gupta MGC II yr**

**III Namratha Pawar MNDC 1yr**

**I Diksha V BtGC II yr**



**II Aryan Gupta MGC II yr**



**III Namratha Pawar MNDC 1yr**



- 2. Eco Hunt** ( treasure hunt of all eco friendly items at home in a minute) Ecohunt is a game where ecofriendly items will be collected in and around the house. The items to be collected were displayed on the slides. Each slide was shown for ten seconds. There were ten participants

who had to memories them and collect the materials within five minutes. Two students were declared the winners in the game.

**I Tejeswini BtGC IIyr**



**II Neha Niranjana BtGC II yr**



3. **Eco Swar** ( classical/ Semi classical vocal on nature). Eco Swar was an online vocal singing competition of Indian classical and semi-classical music event 8 Participants sent their song recordings in the Google Classroom which was created specifically for the event. The participants were judged on the basis of their ability to sing as per the Raagam (traditional pattern of notes), Taalam (rhythm) and proper Shruthi (pitch). vocal singing competition of Indian classical and semi-classical music. The winners are

**I Sree Vidya Keertana BtGC IIIyr**

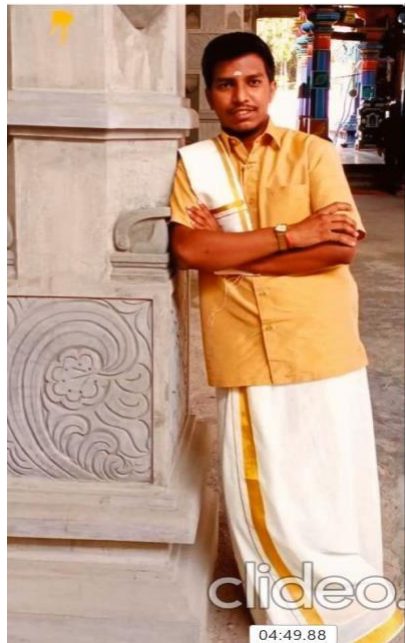


**II Lalitha Pavani BtGC II yr**



**4. Eco Prince and Eco Princess** (Traditional attire of Indian state). Students dressed up in the traditional attire of Indian state considering every minute details in the attire and spoke about the tradition and harvest festival of the state they represented. Total 11 students participated (boys and 6 girls). For the selection of the deserving Eco Prince and Eco Princess audience polling was conducted in which the students in the audience actively did the polling and declared the winners of the event who were crowned Eco Prince and Eco Princess of the EcoFest 2021.

**Eco Prince Siva Shankar MiGC I**



**Eco Princess Hima Binbu MiGC I**

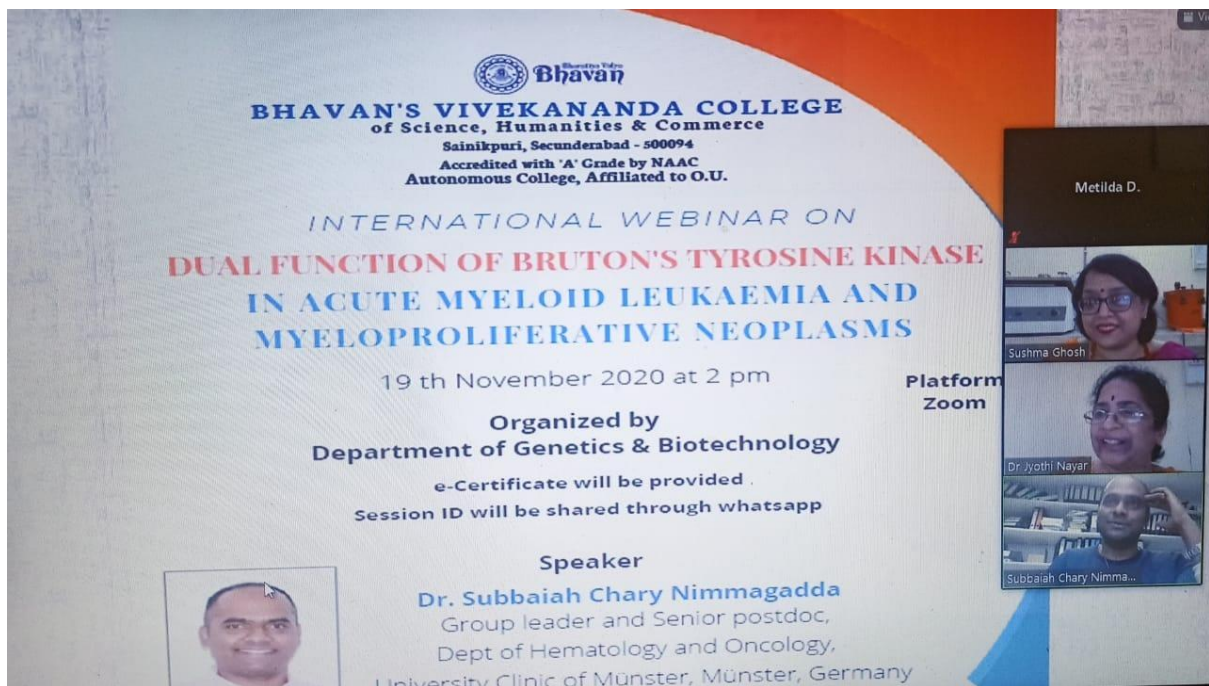


## WEBINAR BY DR. SUBBIAH CHARY NIMMAGADA ON 19-11-2020

Dr. N.S Chary, was the resource person for the webinar conducted by the Department of Genetics and Biotechnology. The webinar was conducted on the Zoom platform. The topic of the webinar was Dual function of Bruton's Tyrosine Kinase in Acute Myeloid Leukemia and Myoproliferative neoplasms. Dr. Chary is currently the Lab leader and senior Post Doc at Dept of Hematology and Oncology, University Clinic of Münster, Münster, Germany. His area of research includes Acute myeloid leukaemia and JAK2-VF Myeloproliferative neoplasm.

Dr Chary explained his research work in a very detailed and simple manner. He emphasised the role of BTK in AML. He explained that the traditional drugs for AML have harsh effects on the patients. Where aa Novel molecules like NSC effect the cell survival and migration thereby may play a vital role in cancer treatment. All the participants appreciated her research work and interacted with her at the end of the webinar.

There were about 106 participants in the webinar, including life sciences students of BVC. Some of the participants were from other countries like Czech Republic, England, Russia to name a few. Dr. Chary answered the queries by some of the participants regarding his presentation. The webinar was taken appreciated by all.



The image is a screenshot of a Zoom webinar. The main part of the screen displays a presentation slide with the following text:

**BHAVAN'S VIVEKANANDA COLLEGE**  
of Science, Humanities & Commerce  
Sainikpuri, Secunderabad - 500094  
Accredited with 'A' Grade by NAAC  
Autonomous College, Affiliated to O.U.

INTERNATIONAL WEBINAR ON  
**DUAL FUNCTION OF BRUTON'S TYROSINE KINASE**  
**IN ACUTE MYELOID LEUKAEMIA AND**  
**MYELOPROLIFERATIVE NEOPLASMS**

19 th November 2020 at 2 pm

Platform  
Zoom

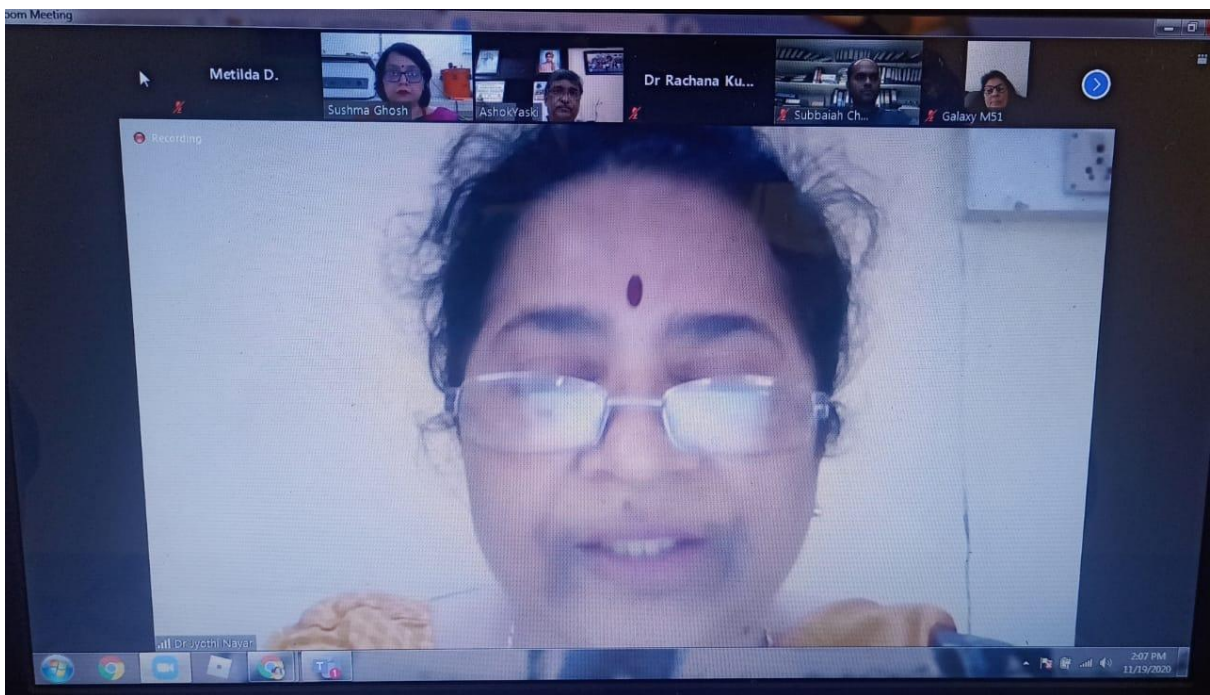
Organized by  
**Department of Genetics & Biotechnology**

e-Certificate will be provided  
Session ID will be shared through whatsapp

Speaker  
**Dr. Subbaiah Chary Nimmagadda**  
Group leader and Senior postdoc,  
Dept of Hematology and Oncology,  
University Clinic of Münster, Münster, Germany

On the right side of the screen, there is a vertical stack of video thumbnails for participants. From top to bottom, the visible thumbnails are:

- Metilda D.
- Sushma Ghosh
- Dr. Jyothi Nayari
- Subbaiah Chary Nimma...



**Dr. Subbaiah Chary Nimmagadda**  
Group leader and Senior postdoc,  
Dept of Hematology and Oncology,  
University Clinic of Münster, Münster, Germany.



**Research focus:** Acute myeloid leukaemia and JAK2-VF Myeloproliferative neoplasm

**Research Experience**

- ❖ Group leader and Senior postdoc Clinic of Muenster, Muenster, Germany.
- ❖ Postdoctoral fellow, 2018-19 Technical University of Munich, Germany

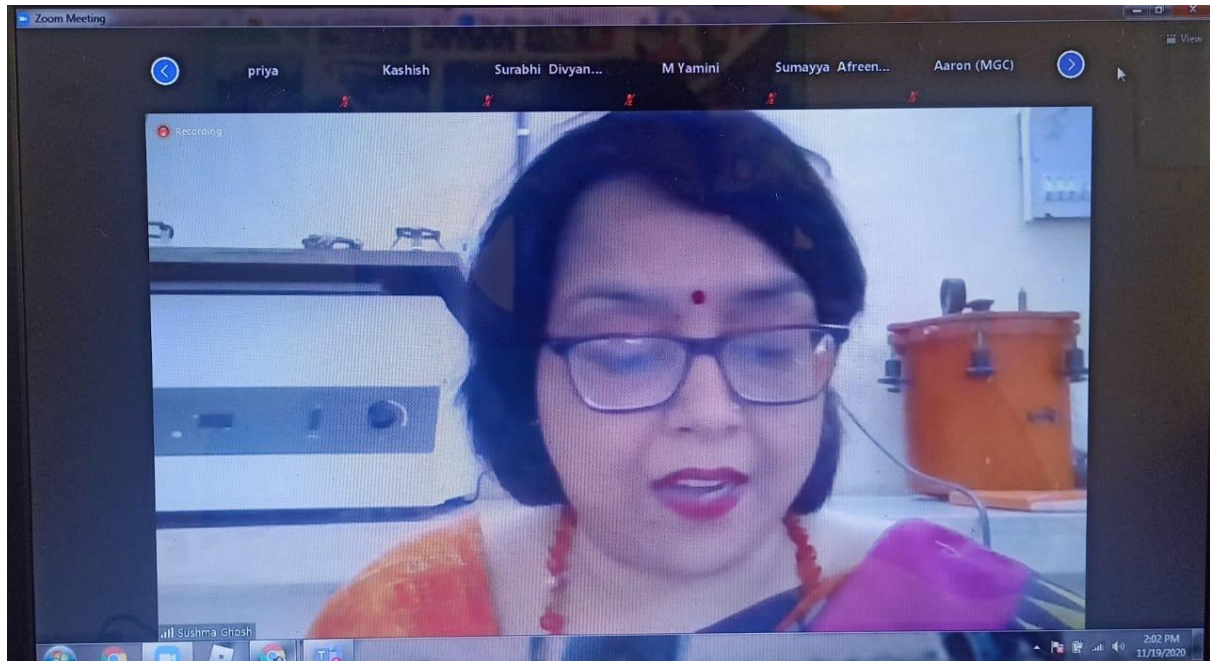
**Education**

**PhD Biochemistry** in 2013, Identification and characterization of Abelson interactor novel substrate of Protein Kinase D2. Germany  
**MSc Biotechnology** 2006, Bharathidasan University, TamilNadu, India.  
**BSc Biotechnology**, 2004, Loyola Academy, Osmania University.

**Publications (Since 2017)** 6 Research Papers in Various International Journals

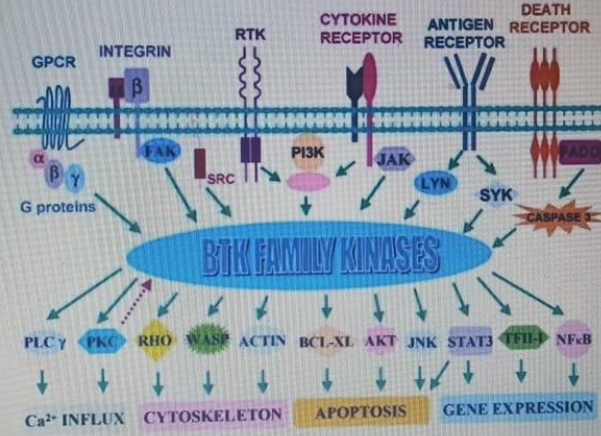
**Funding:**

Title Sponsor Duration Grant; Preclinical studies of TL-895 and KRT232 in AML and JAK2-V617F MPN, Telios Pharma, USA, 3 years € 350000  
Impact of stress-dominated routine on cancer crisis management. Volkswagen, Germany, 1.5 years € 120000

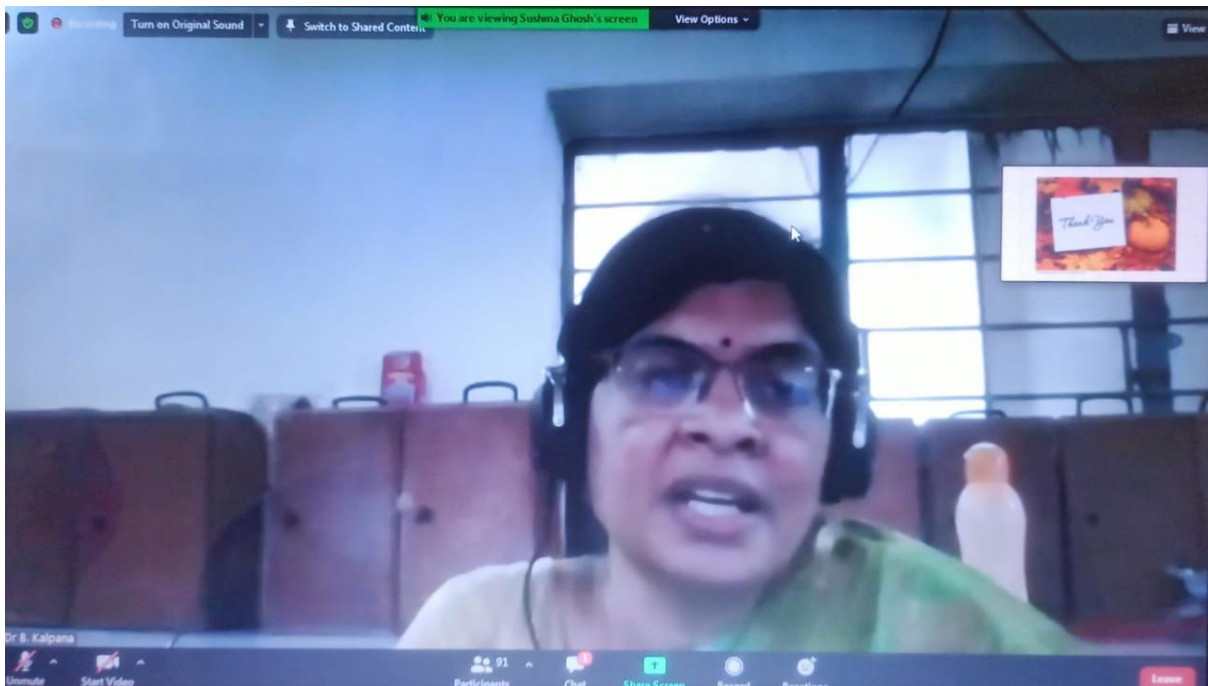




### Signaling network of the Btk family kinases















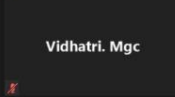

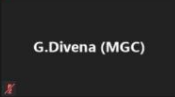

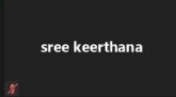
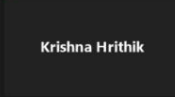
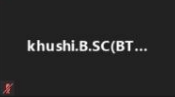

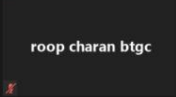

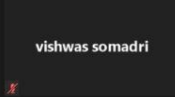


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Zoom Meeting

Speaker View

 Dr. B. Kalpana	 Sushma Ghosh	 Subbalaah Chary Nimmag	 Sumana	 Dr. Rachana Kumari
 Dr. Jyothi Nayar	 AKSHARA MGC	 Surabhi Divyangini	 Medhida D.	 Ankitha Putti
 Galaxy M51	 Dhakshayini	 Anusha	 Akshata deshpa...	 Vidhatri. Mgc
 R.Sai.Keerthan	 G.Divena (MGC)	 Aaron (MGC)	 sree keerthana	 Krishna Hrithik
 khushi.B.SC(BT...	 Vaishnavi	 roop charan btgc	 Rani.T	 vishwas somadri

Mute Stop Video Security Participants Chat Share Screen Record Support Reactions More

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**Resource persons for Certificate Course - Clinical Genetics: Diagnosis and Management  
conducted by the Institute of Genetics & Hospital for Genetic Diseases, Begumpet,  
Osmania University, Hyderabad**

Dr I Rachana Kumari and Dr. B.Kalpna from the Department of Genetics & Biotechnology were requested to be resource persons and take online training classes for the certificate course in Clinical Genetics conducted by the Institute of Genetics and Hospital for Genetic diseases, Begumpet, O.U. The PG diploma course had MBBS graduates, B Pharmacy and M.Sc. Life Sciences students. The classes were scheduled from 14-09-2020 to 03-10-2020 through Skype platform. The lecture schedule was for one hour every day. The training was well received through interaction and appreciated by the students.

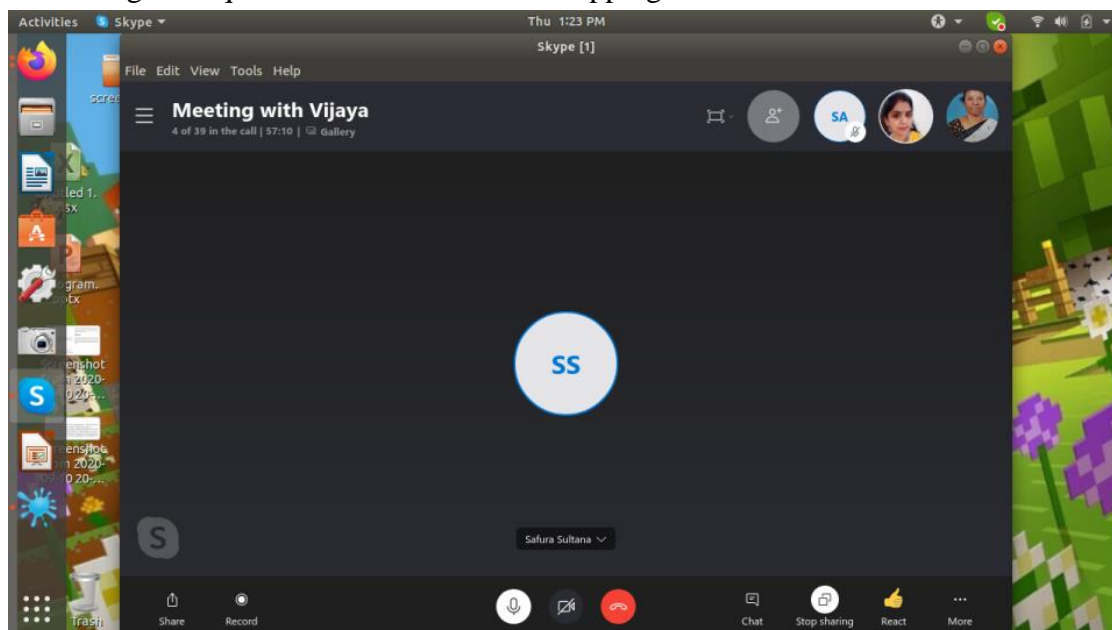
Topics covered by Dr. I. Rachana Kumari:

**Biostatistics**

- Probabilities, sampling techniques
- Concepts of statistical population and sample from a population
- Qualitative and Quantitative data - Nominal, Ordinal, Ratio,
- Discrete and Continuous data
- Primary data, Designing a questionnaire and a schedule, Secondary data and sources of secondary data
- Presentation of data: Diagrammatic and Graphical representation of data; Frequency distributions and Cumulative frequency distributions; Histogram, Frequency polygon,
- Descriptivestatistics: Concepts of central tendency or location, Absolute and relative measures of dispersion
- Correlation and Regresion, Interpretation
- Tests used in statistical analysis :Sampling Distributions : Concepts of random sample, Parameter, Statistic Standard error, Distribution of sample mean and sample variance from a normal population. Hypothesis testing Student's t, Chi Square and F distributions and Statistics.
- Applications with simple illustrations. Distributions,

Topics covered by Dr. B. Kalpana:

- Hardy Weinberg equilibrium
- Linkage analysis
- Linkage disequilibrium & Association mapping



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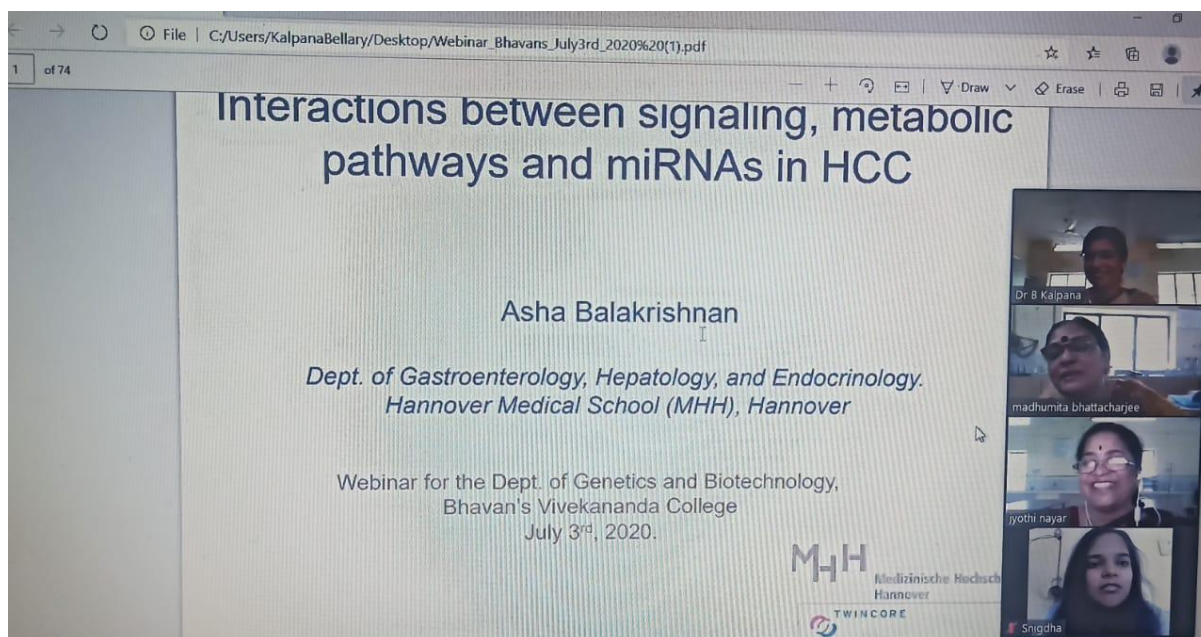
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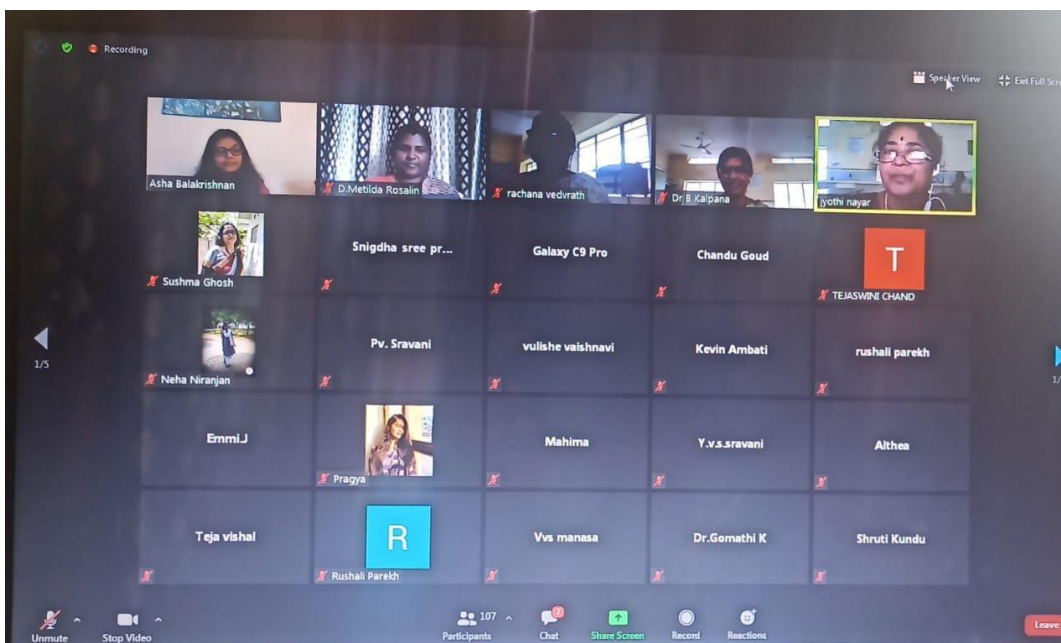
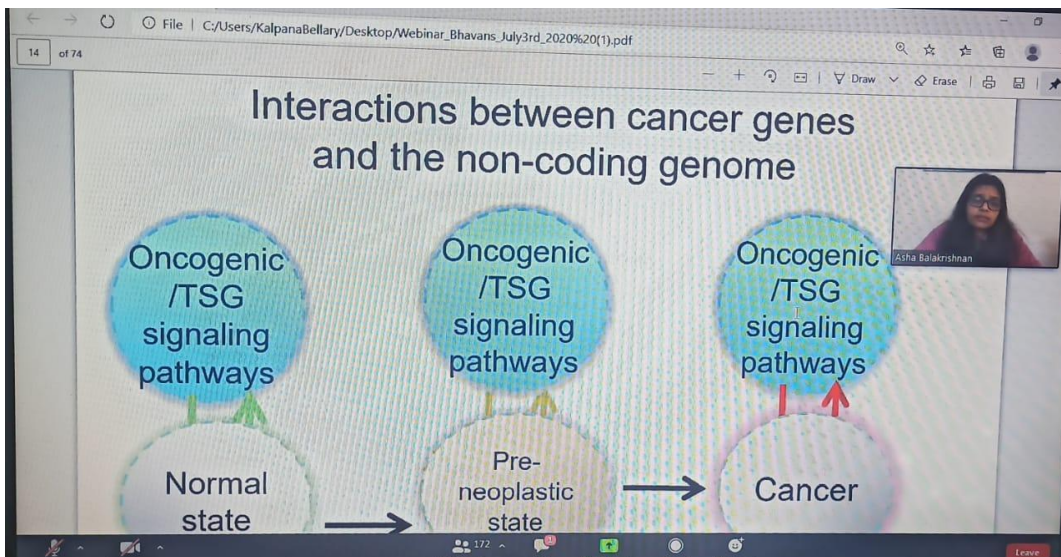
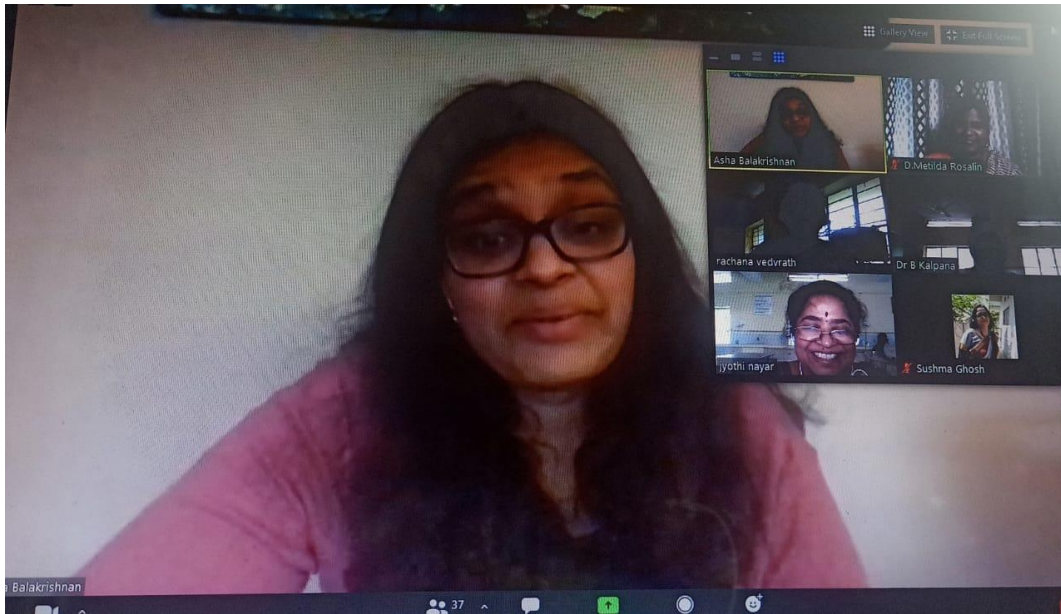
## WEBINAR BY DR. ASHA BALAKRISHNAN ON 03-07-2020

Dr. Asha Balakrishnan, an alumna of BVC (1995-1998, B.Sc- GBC-Genetics, Botany, Chemistry), was the resource person for the webinar conducted by the Department of Genetics and Biotechnology. The webinar was conducted on the Zoom platform. The topic of the webinar was: **Interactions between signaling, metabolic pathways and miRNAs in Hepatocellular Carcinoma (HCC)**. Dr. Asha is currently the Principal Investigator at TWINCORE, Hannover Medical School (MHH), Hannover, Germany. Her topic of research at Hannover Medical School is: Molecular basis of HCC and the role of microRNAs, metabolic and signaling pathways in HCC and liver regeneration.

Dr Asha explained her research work in a very detailed and simple manner. All the participants appreciated her research work and interacted with her at the end of the webinar. There were about 160 participants in the webinar, including life sciences students of BVC. Dr. Asha answered the queries by some of the participants regarding her research and in general higher education and research in Germany. The webinar motivated students to take up higher studies and research in the field of life sciences.



The image is a screenshot of a Zoom webinar presentation. The main slide is titled "Interactions between signaling, metabolic pathways and miRNAs in HCC" and is presented by Asha Balakrishnan, who is affiliated with the Department of Gastroenterology, Hepatology, and Endocrinology at Hannover Medical School (MHH). The slide also mentions that the webinar is for the Department of Genetics and Biotechnology at Bhavan's Vivekananda College, held on July 3rd, 2020. Logos for MHH (Medizinische Hochschule Hannover) and TWINCORE are visible at the bottom of the slide. On the right side of the screenshot, there is a vertical stack of four video thumbnails showing participants: Dr. B. Kalpana, madhumita bhattacharjee, jyothi nayar, and Snigdha. The browser address bar at the top shows the file path: C:/Users/KalpanaBellary/Desktop/Webinar\_Bhavans\_July3rd\_2020%20(1).pdf.



## **Report on “Ayurvedic preventive measures by drugs and pranayam for COVID 19” webinar**

The Department of Genetics and Biotechnology, Bhavan’s Vivekananda College of Science, Humanities and Commerce, organized a webinar on “Ayurvedic preventive measures by drugs and pranayam for COVID 19” on 11<sup>th</sup> May, 2020. It was a live session from 3pm.

The main objective of the webinar was to create awareness among the people regarding COVID- 19.

The speaker of the webinar was Dr. N. Vijaya Lakshmi who has an MD in Ayurveda and PG Diploma in Yoga to her credit. She obtained her Post Graduation in Ayurveda Samhita from Banaras Hindu University, Varanasi and received her Master’s in Sanskrit from Osmania University, Hyderabad.

The session started with the introductory note by the Principal, Prof.Y.Ashok, followed by a welcome address by Dr.Jyothi Nayar, Head, Department of Genetics and Biotechnology. Dr. Nayar introduced the resource person to the audience. Dr.Vijaya lakshmi delivered her lecture and explained about Ayurvedic lifestyle, Seasonal detoxification, ways to improve immunity, Vyadhikshamatva- using food as immune booster, Manasikanidana- Emotions and its role in Immunity, Sankramikaroga- Microorganisms and their mode of transmission, AdhyaatmikaNidana- Spiritual cause of Grahakopa which includes panachamahabutas as well.

The speaker demonstrated Pranayama through a video recording which included Bhastika, Kapalabhati, Bramari and Udgeeta pranayam. She also emphasized on the need of Ayurvedic drugs to be used as medicine and the importance of meditation and suryanamaskar.

The webinar concluded with the question and answer session which was answered politely by the speaker. Various participants shared the feedback that the Webinar was very informative and was definitely a need of the hour.

The total number of registrations for the webinar was 254 which included people even across the globe.

**List of Registrations for one day international webinar in “Ayurvedic preventive measures by Drugs and Pranayam for COVID- 19” on 11.05.2020**

S.No	Name of the place	No.of candidates registered
1	Bahrain	1
2	Dubai	1
3	Massachusetts	1
4	A.P	3
5	Bihar	3
6	Chhattisgarh	3
7	Delhi	8
8	Gujarat	1
9	Haryana	1
10	Himachal Pradesh	2
11	Karnataka	5
12	Kerala	1
13	M.P	2
14	Maharashtra	4
15	Puducherry	2
16	Rajasthan	2
17	TamilNadu	55
18	Telangana	157
19	West Bengal	1
20	U.P	1
<b>Total no.of registrations</b>		<b>254</b>



The image shows a Zoom webinar interface. The main slide is titled "BHAVAN'S VIVEKANANDA COLLEGE" and "WELCOME TO WEBINAR ON Ayurvedic preventive measures by Drugs and Pranayam for Covid-19". The slide also mentions the college's affiliation with O.U. and accreditation by NAAC. The Zoom interface includes a sidebar with thumbnails of the presentation slides, a bottom toolbar with icons for chat, mute, video, and screen share, and a video gallery showing three participants.

**BHAVAN'S VIVEKANANDA COLLEGE**  
OF SCIENCE, HUMANITIES & COMMERCE, SAINIKPURI, SECUNDERABAD- 500094  
ESTD. 1993, AFFILIATED TO O.U., ACCREDITED WITH 'A' GRADE BY 'NAAC'  
AUTONOMOUS COLLEGE

**WELCOME TO WEBINAR**  
ON  
**Ayurvedic preventive measures by  
Drugs and Pranayam for Covid-19**  
Organized by  
**Department of Genetics and Biotechnology**

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