

ACHIEVEMENTS

Students of B.SC BMB 2nd year attended “ **SUMMER INTERNSHIP**” 2023 HELD ON 15TH of may 7th of June organized by center for genetics & genomics **CENTURION UNIVERSITY** of technology and management .ODISHA IN ASSOCIATION WITH GENOMICS.

S.NO	NAME OF THE STUDENT	COURSE/ YEAR
1	MOTUKURI NAVEEN KUMAR	BMB
2	ANJANI REDDY	BMB
3	MYTRI	BMB
4	SINDHU	BMB
5	YASHSWINI	BMB
6	POOJA V	BMB
7	SHREYAN	BMB
8	SOURBH	MEDICAL BIOTECHNOLOGY
9	CHARAN	MEDICAL BIOTECHNOLOGY
10	SAIKIRAN	MEDICAL BIOTECHNOLOGY

Student of B.SC BMB 2nd year has participated in the IETE sponsored three day **NATIONAL WORKSHOP ON ARTIFICIAL INTELLIGENCE FOR BIOMEDICAL SIGNAL AND IMAGE PROCESSING (AIBISP)** ORGANISED OF ELECTRONICS AND COMMUNICATION ENGINEERING AMRITA VISHWA VIDYAPEETAM COIMBATORE FROM **JULY 10-12 2023**

S.NO	NAME OF THE STUDENT	COURSE/YEAR
1	NAVEEN KUMAR	BMB

Students of B.SC BMB 2nd year has participated 2 day offline workshop on **GENOMICS AND PROTEOMICS** conducted by **ETHICAL EDUFABRICA PVT.LTD** in association with **Pravega IISC**

BANGOLRE ON 4TH &5TH NOV 2023.

S.NO	NAME	COURSE/YEAR
1	POOJA V	BMB
2	N POOJA	BMB
3	ROHITA	BMB
4	VAISHANAVI	BMB

5	NAVYA	BMB
6	PAVAN	BMB
7	SHREYAN	BMB
8	SAKETH	BMB
9	JHANSI	BMB
10	YUKTHA	BMB
11	MEGHANA	BMB
12	SRIHITA	BMB

STUDENT OF 2ND YEAR BMB has successfully participated in the 5 days hands on DRUG DISCOVERY WORKSHOP organized by zastra innovations pvt.ltd from July 4th to 12th and demonstrated successful attainment of the workshop's objectives.

s.no	Name of the student	Course/year
1.	NAVEEN KUMAR	BMB

Student of BMB 2nd year has completed HANDS ON TRAINING ON "NEXT GENERATION SEQUENCING" CONDUCTED FROM 9-11 AUGUST 2023 organised by IIT BOMBAY BY DEPARTMENT OF BIOSCIENCES AND BIOENGINEERING

S.NO	NAME OF THE STUDENT	COURSE/YEAR
1.	NAVEEN KUMAR	BMB

Student of 2ND YEAR BMB has successfully attended 2 days online webinar on NEXT GEN SEQUENCING THE POWER OF GENOMICS organized by DR.OMICS LABS FROM 2th July -30th July 2023

S.NO	NAME OF THE STUDENT	COURSE /YEAR
1	NAVEEN KUMAR	BMB

Students of 3rd year students has successfully completed "TWO DAYS SKILL TRAINING PROGRAM ON " **ANALYTICAL INSTRUMENTATION TECHNIQUES FOR MEASUREMENT OF ENVIRONMENTAL CONTAMINATES** organized by the **CSIR – NERI** NAGPUR DURING NOVEMBER 07-08 2023.

S.NO	NAME OF THE STUDENT	COURSE/YEAR
1.	SNEHA PRIYA	BMB
2.	BHAVANI	BMB

Students of 3rd year has successfully completed 3D BIOPRINTING TECHNOLOGY AND APPLICATIONS HANDS ON WORKSHOP ON JUNE 6TH 2023 organized by the center for predictive human model systems (AIC-CCMB)

S.NO	NAME OF THE STUDENT	COURSE/YEAR
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1	SNEHA PRIYA	BMB
2	SHRIYA	BMB

PRESENATATIONS :

Students of BMB 2nd year students are participated in 16th REGIONAL SCIENCE AND ENGINEERING FAIR CONDUCTED BY THE TELAGANA SCIENCE FAIR ACADAEMY.

Sl. No	Name of the Student	Research Topic	Course/Year
1.	Anjani Reddy	Plastic Devourers: Exploring <i>Ideonella sakaiensis</i> , the PET-Eating Bacteria	II B.Sc Life Sciences
2.	Shreyan Sheshadri S Pooja.V	Current Approaches To Replace Streetlights With Bioluminescent Trees To Save Electricity	II B.Sc Life Sciences
3.	S.Yashasvi C.Akshaya Reddy N.Pooja	Psychobiotics In Mental Health, Neurodegenerative And Neuro-Developmental Disorder	II B.Sc Life Sciences
4.	V. Priya Rithika K. Kusuma Priya	Tumor Vessel targeting Therapy To Control Angiogenesis	II B.Sc Life Sciences
5.	C.Akshaya Reddy S.Yashasvi N.Pooja	Microbial Effects On Plastic Degradation	II B.Sc Life Sciences
6.	V.Gayathri N.Sharon Keerthana M.J.Anie Harshitha	Impact Of Industrial Waste Management On Aquatic Life And Marine Ecosystem	III B.Sc Life Sciences
7.	B. Tanisi Reddy	Removal of Pollutants from land using Bioremediation	II B.Sc Life Sciences
8.	E. Srinitha	Modulating the Microbiota as therapeutic intervention in type 2 Diabetes	II B.Sc Life Sciences

STUDENT TRAINING PROGRAMS/CERTIFICATIONS

Students of SOAHS attended **SUMMER INTERNSHIP 2023** organized by **CENTER FOR GENETICS & GENOMICS, CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, BHUBANESWAR, ODISHA** in association with **CENOMICS** during 15th May – 7th June, 2023.

SL. NO.	NAME OF THE STUDENT	COURSE	YEAR/SEMESTER
1.	M. Naveen Kumar	B.Sc Life Sciences	I year II Semester
2.	Anjani Reddy	B.Sc Life Sciences	I year II Semester
3.	Mythri	B.Sc Life Sciences	I year II Semester
4.	Sindhu	B.Sc Life Sciences	I year II Semester
5.	Yashaswini	B.Sc Life Sciences	I year II Semester
6.	S. Shreyan	B.Sc Life Sciences	I year II Semester
7.	V. Pooja	B.Sc Life Sciences	I year II Semester

PRIZES WON BY SOAHS STUDENTS IN 16th REGIONAL SCIENCE & ENGINEERING FAIR

Venue: Platinum Jubilee Conference Hall, Osmania University
16.12.2023

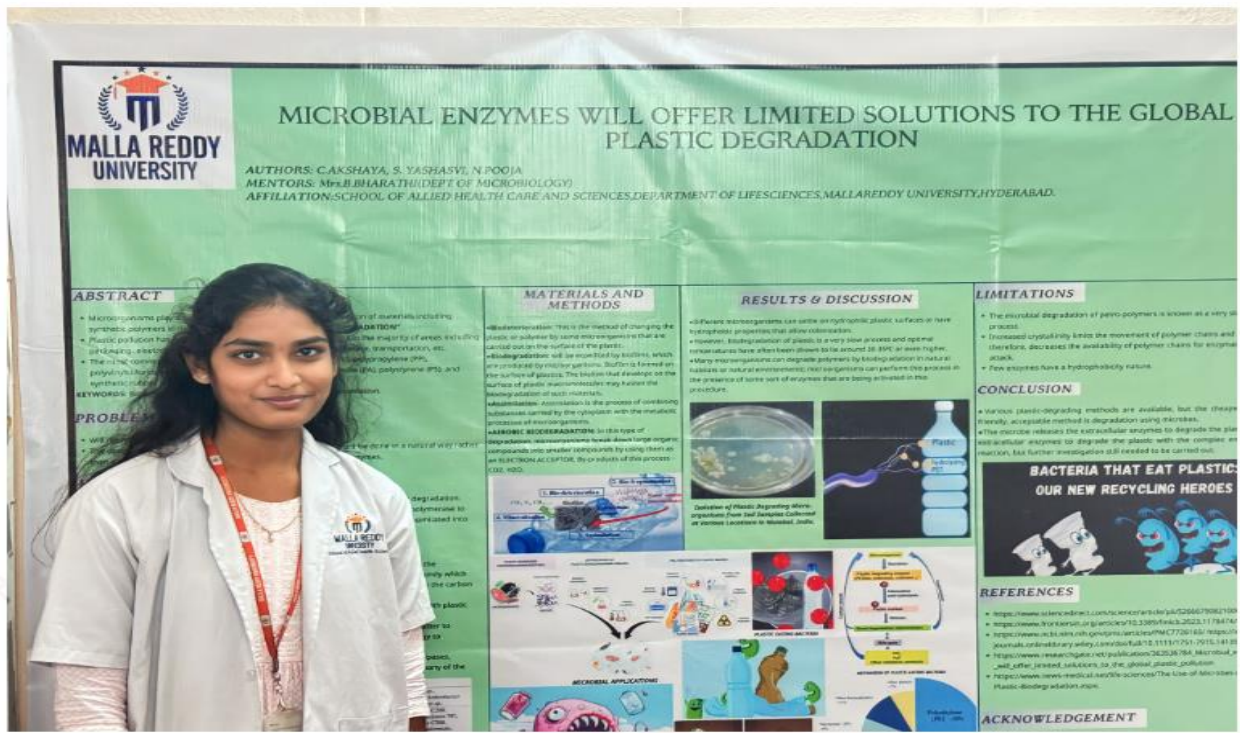
Date:

Prize	Name of the Student/s	Research Topic	Course/Year	Mentor/Guide
LIFE SCIENCES CATEGORY				
II Prize	E. Srinitha	Modulating the Microbiota as therapeutic intervention in type 2 Diabetes	II BSc (BMB)	Mrs. Bharathi
III Prize	V. Priya Rithika K. Kusuma Priya	Tumor Vessel targeting Therapy To Control Angiogenesis	II BSc (BMB)	Dr. S.Praveen Kumar Dr. D.Muni Kumar
ENVIRONMENTAL SCIENCES CATEGORY				
II Prize	B. Tanisi Reddy	Removal of Pollutants from land using Bioremediation	II BSc (BMB)	Mrs. Bharathi Dr. D. Muni Kumar

III Prize	V.Gayathri M.J.Anie Harshitha	Impact Of Industrial Waste Management On Aquatic Life And Marine Ecosystem	III BSc (BMB)	Dr. S.Praveen Kumar
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Students presentations at various National/International Conferences/Seminars

1. **B. Bhargavi Lakshmi** - Presented a poster entitled '**Bacteriophages to treat Antimicrobial Resistance- A Review**' at 63rd Annual International Conference of Association of Microbiologists of India (AMI) - Microbial Technologies for Sustainable BIOSPHERE. Microbio Tech – 2023 organized by Maharshi Dayanand University, Rohtak, Haryana, India during 2nd – 4th, February, 2023.
2. **M. Vinitha**- Presented a poster entitled '**Microbial Ecology and Biodiversity of Permafrost and the impacts of Permafrost Thaw**' at 63rd Annual International Conference of Association of Microbiologists of India (AMI) - Microbial Technologies for Sustainable BIOSPHERE. Microbio Tech – 2023 organized by Maharshi Dayanand University, Rohtak, Haryana, India during 2nd – 4th, February, 2023.
3. **K. Sneha Priya** – Presented a poster entitled '**Halophiles – Their mechanism of survival and applications – A Review**' at 63rd Annual International Conference of Association of Microbiologists of India (AMI) - Microbial Technologies for Sustainable BIOSPHERE. Microbio Tech – 2023 organized by Maharshi Dayanand University, Rohtak, Haryana, India during 2nd – 4th, February, 2023.

4. **K. Shriya** - Presented a poster entitled '**Advantages and disadvantages of Nanoparticles in Food Industry - Review**' at 63rd Annual International Conference of Association of Microbiologists of India (AMI) - Microbial Technologies for Sustainable BIOSPHERE. Microbio Tech – 2023 organized by Maharshi Dayanand University, Rohtak, Haryana, India during 2nd – 4th, February, 2023.

5. **Shriya KGS, Sneha Priya K** - Presented a paper entitled “**Assessment of Environmental knowledge and attitudes of Undergraduate students: A study on Environmental ethics**” in National Seminar on Science and Technology for Sustainable Development NSSTSD-2022 during 02 - 03 September, 2022, organized by Faculty of Sciences, Dr.B.R.Ambedkar Open University, Hyderabad.
Published in Conference proceedings NSSTSD -2022.

6. **Sri Vidhya V, Sai Divya K, Anshu G** - Presented a paper entitled “**Knowledge on Biodiversity - A cross-sectional study**” in National Seminar on Science and Technology for Sustainable Development NSSTSD-2022 during 02 - 03 September, 2022, organized by Faculty of Sciences, Dr.B.R.Ambedkar Open University, Hyderabad.
Published in Conference proceedings NSSTSD -2022.

7. **Shriya KGS, Sneha Priya K** - Presented a paper entitled “**Environmental Ethics: A cross-sectional study**” in First International Conference Philosophical Research, Science and Literature-ICPRSL-2022 during September 5-6, 2022, organized by Malla Reddy University, Hyderabad.
Published in Conference proceedings

8. **Sri Vidhya V, Sai Divya K, Anshu G** - Presented a paper entitled “**Knowledge on Biodiversity and our School Education System**” in First International Conference Philosophical Research, Science and Literature -ICPRSL-2022 during September 5-6, 2022, organized by Malla Reddy University, Hyderabad.
Published in Conference proceedings

List of students who secured prizes in Telangana Science Fair on 26th Nov, 2022, Osmania University, Hyderabad

Sl. No	Name of the student	Title of the project	Place
1.	Shyamanand Dubey (B.Sc BT.BC.MB) V. Srividya (B.Sc BT.BC.MB) K. Tinesh (B.Sc BT.BC.MB)	Recycling waste water into electricity by Microbial Fuel Cells (MFC's)	First prize (Environmental Sciences category)

PP-10

"A NATURAL MOSQUITO REPELLENT - EFFICACY OF *Lantana camara* & *Citronella* AGAINST DENGUE FEVER"
 (DEPARTMENT OF LIFE SCIENCE)
 AUTHORS: 1) B. TANISI REDDY 2) POOJA. V 3) SHREYAN SHESHADRI SANGA (DEPARTMENT OF MICROBIOLOGY)
 MENTOR: Mrs. B. BHARATHI (DEPARTMENT OF MICROBIOLOGY)
 SCHOOL OF ALLIED AND HEALTHCARE SCIENCES-MALLA REDDY UNIVERSITY, HYDERABAD

ABSTRACT
 Mosquitoes are a vector for various diseases, with dengue being a significant concern. The present investigation was carried out to assess the repellent efficiency of two indigenous, weed species, *Lantana camara* (Lantana) and *Citronella* (*Citronella*). The essential oils of these plants were extracted and their repellent activity was tested against the mosquito *Aedes albopictus* (Aedes). The results showed that the essential oils of *Lantana camara* and *Citronella* were effective in repelling the mosquito. The repellent activity was tested against the mosquito *Aedes albopictus* (Aedes). The results showed that the essential oils of *Lantana camara* and *Citronella* were effective in repelling the mosquito.

INTRODUCTION
 Mosquitoes demonstrate herbivorous properties against *Aedes albopictus*, making it a potential natural control method. *Citronella* and *Lantana camara* are two indigenous weed species of India, which are widely used for their natural insect-repelling properties. *Citronella* is a type of natural mosquito repellent that contains compounds called citronellal, geraniol, and citriol, which repel mosquitoes. This oil can also be used in various household and commercial products. *Lantana camara* is a weed species that is highly invasive and is a major pest in many countries. It is highly attractive to mosquitoes, making it a target for biological control. The essential oils of *Lantana camara* and *Citronella* were extracted and their repellent activity was tested against the mosquito *Aedes albopictus* (Aedes). The results showed that the essential oils of *Lantana camara* and *Citronella* were effective in repelling the mosquito.

MATERIALS AND METHODS
Lantana camara and *Citronella* leaves were collected from the campus of Malla Reddy University. These leaves were dried and homogenized in a grinder and stored in airtight containers. For the extraction of oil, Citronella distillation apparatus was used for the hydro distillation of fresh leaves of two plants, *L. camara* and *Citronella* along with water. The water in the distillation flask, a condenser, and a receiving flask. The water is heated in the distillation flask, and steam passes through the plant material, carrying volatile compounds, including essential oils. The condensed liquid, known as the distillate, contains the essential oil and water. Separate the essential oil from the water by allowing the two layers to naturally separate or by using a separating funnel.

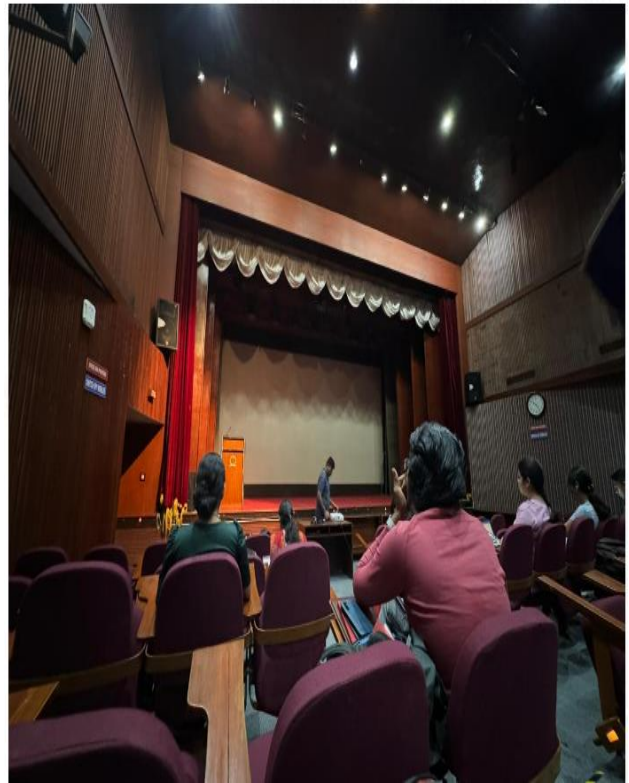
RESULTS AND DISCUSSION
Lantana camara has a proven repellent effect against *Aedes albopictus*. One application of *Lantana camara* extract in coconut oil can provide more than 50% protection for up to 4 hours. The mean protection time is 1.9 hours. It contains a variety of alkaloids, glycosides, terpenes, carbohydrates, flavonoids, tannins including high amounts of carotenoids, which can repel mosquitoes. *Citronella* oil's main components that repel mosquitoes in Eucalyptol, Eucalyptol, Camphor, Limonene, Citral and Citronellal.

Concentration	L. camara (Number of Mosquitoes)	C. citriol (Number of Mosquitoes)
0.0	100	100
0.25	~75	~70
0.5	~50	~45
1	~30	~25
1.5	~15	~10
2	~5	~5

CONCLUSION
 In conclusion, the exploration of herbal formulations for mosquito control, particularly in combating diseases like dengue, offers a viable alternative. The mosquito repellent efficiency of two weeds, *L. camara* and *Citronella*, against *A. albopictus* mosquitoes, the vectors for dengue is found to be effective. The success of the formulations in positions them as viable candidates for the development of a natural, chemical-free, and eco-friendly mosquito repellent, contributing to a sustainable approach in the fight against mosquito-borne illnesses.

REFERENCES
 1. https://www.researchgate.net/publication/318500000_Efficacy_of_Leaves_of_Lantana_camara_as_Mosquito_Repellent
 2. <http://www.adonolife.com/abstract/article/146111>
 3. https://www.researchgate.net/publication/318500000_Efficacy_of_Leaves_of_Lantana_camara_as_Mosquito_Repellent
 4. https://www.researchgate.net/publication/318500000_Efficacy_of_Leaves_of_Lantana_camara_as_Mosquito_Repellent
 5. https://www.researchgate.net/publication/318500000_Efficacy_of_Leaves_of_Lantana_camara_as_Mosquito_Repellent

Off line workshop at IISC Bangalore





**NATIONAL SEMINAR ON
SCIENCE AND TECHNOLOGY
FOR SUSTAINABLE
DEVELOPMENT
AMBEDKAR UNIVERSITY**





WORKSHOP AT TISSUE CULTURE LAB, Hyderabad.

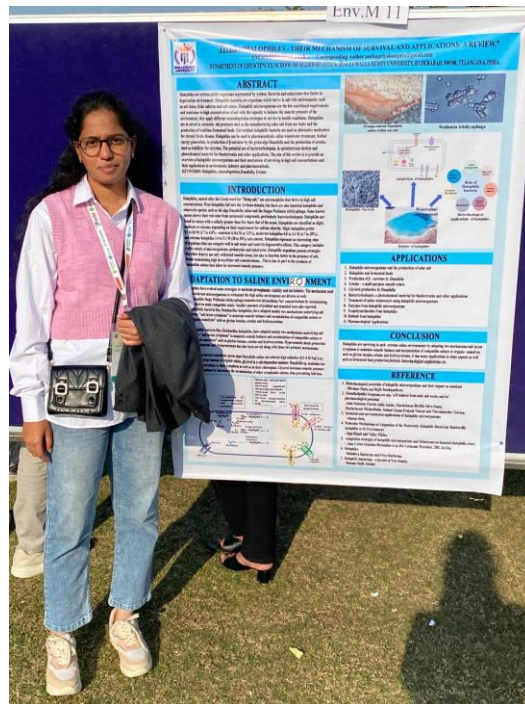




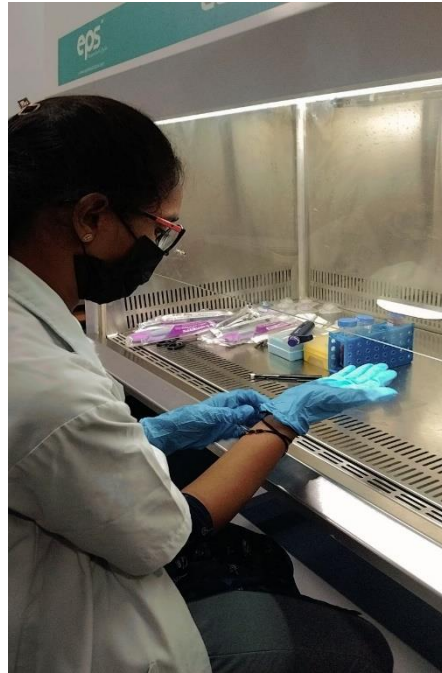




AMI INTERNATIONAL CONFERENCE AT MAHARSHI DAYANAND UNIVERSITY, ROHTAK, HARYANA



WORKSHOP AT SATHYABAMA UNIVERSITY

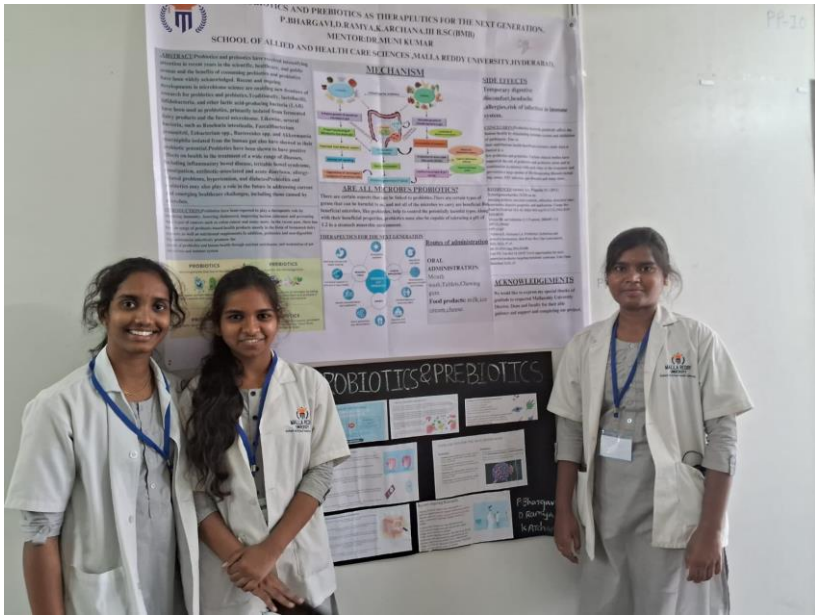




WORKSHOP AT CCMB ON 3D BIOPRINTING



NATIONAL CONFERENCE AT DEPARTMENT OF BOTANY, OSMANIA UNIVERSITY



TRAINING AT NEERI



WORKSHOP ON VACCINE TECHNOLOGY AT BITS, HYDERABAD



SCIENCE FAIR- WINNERS AT OSMANIA UNIVERSITY

