

Report on
Faculty Development Program cum Workshop on
"Advances Techniques in Molecular Biology and
Biotechnology"

The Department of Biotechnology (UG & PG) at Loyola academy successfully organized a Faculty Development Program cum Workshop on "Advances Techniques in Molecular Biology and Biotechnology" from 29th November to 3rd December.

This hands-on training program was designed for the Teachers from various colleges and students from other Universities. This program provided an excellent platform to enhance practical skills and knowledge in molecular biology and biotechnology especially RT-PCR, Animal cell culture, Detection of Genetically Modified Organisms, DNA isolation from plants and gene amplification by PCR, Micropropagation and Phylogenetic analysis.

The event was conducted in collaboration with GENEI, Savvy Scientifics and Hi Media.

We extend our heartfelt gratitude to the Management, Correspondent- Rev.Fr Dr. Francis Xavier SJ,

Principal- Rev. Fr. Dr. N.B. Babu SJ, Our Vice Principal- Rev. Fr. Anthony Prabhu SJ and Library Director-Rev. Fr. Ch. Anand SJ. Your support inspires us to strive for greater heights in education and research.











Loyola Academy

(Autonomous)

A “College with Potential For Excellence” by UGC
Affiliated to Osmania University, Established in 1978
Re Accredited with A Grade (III cycle) by NAAC

**Department of Biotechnology (UG&PG) is organizing
A Faculty Development Program
Workshop on
“Advanced Techniques in Molecular Biology and Biotechnology”**

Date: 29 & 30 November, 2024

Venue : Dept. of Biotechnology, Inigo Block, Loyola Academy

20 Seats Only; Registration fee Rs.500/-

Click here to register

<https://forms.gle/iabfCAZenWLkUibw7>

You will explore:

1. GMO's Detection by RT-PCR
2. DNA Fingerprinting by RFLP
3. Plant DNA Extraction
4. PCR and Gel Electrophoresis
5. Establishment of Primary cells and Cell counting from Animal tissue
6. Phylogenetic Analysis

Advisory committee

Rev Fr. Dr. A. Francis Xavier SJ, Correspondent, LA
Rev Fr. Dr. N.B. Babu SJ, Principal, LA
Rev Fr. Anthony Prabhu SJ, Vice Principal, (School of Life Sciences, LA)
Rev Fr. Ch. Anand Kumar SJ, Director of Library, LA
Dr. P. Tirupathi, Dean (School of Life Sciences, LA)

Organizing committee

| | |
|---------------------|--------------------------|
| Dr. P. SURESH KUMAR | Dr. T. SUCHITRA NAIDU |
| Dr. CH. SIRISHA | Mrs. N. KAVITHA |
| Mrs. D. GURU DEVI | Mrs. A. JAYA MADURI LATA |
| Dr. S. DHAVALA | Ms. M. CARINE |
| Dr. PADMALATHA K | Ms. ALKA. R |
| Dr. JAGANMAI G | |

Contact:

Dr. P. Suresh Kumar: 97014 07475
Mrs. D. Guru Devi: 9849693056
Mrs. A. Jaya Madhuri Latha: 9849442334



In Collaboration with



GeNei™





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(DEGREE & PG COLLEGE)

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

(Autonomous and Affiliated to Osmania University)

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www.loyolaacademyugpg.ac.in Ph: 040-27862363/27860077 Fax: 040-27867939

Date: 18-11-24

To
The principal
Loyola Academy
Old alwal, Secunderabad

Respected father,

Subject: Seeking permission to conduct a two day faculty development workshop-Req.

Regarding the aforementioned subject, we would like to inform you that the PG and UG Biotechnology departments have scheduled a two-day faculty development workshop on advanced biotechnological techniques for November 29 and 30, 2024, to train the faculty in and around Hyderabad. Twenty faculty members from other colleges will receive practical training in cutting-edge biotechnology techniques as part of this initiative, which will assist them, instruct students and give them an overview of our college's research resources and infrastructure. The program's estimated budget is Rs. 45000/- and the breakdown of expenses is provided below. In light of this, we kindly ask that you provide an advance of Rs. 5,000 to cover expenses prior to the event.

Thanking you
Yours sincerely,

Dr. Suchitra

gone QR code. 19/11/24

Heads of the Department of PG and UG (Biotechnology)

| S.No | Description | Amount |
|------|---|----------|
| 1. | Chemicals and Consumables | 25,000/- |
| 2. | Invited lecturers (2 days- two Guests) 3000 per each | 6000/- |
| 3. | Lunch and tea | 9000/- |
| 4. | Workshop kit (ID card, Pen, File and scribbling pad) & Certificates | 2500/- |
| 5. | Banner | 500/- |
| 6. | Miscellaneous (Gloves, hand wash, hair mask etc.) | 2000/- |
| 7. | TOTAL | 45000/- |

19/11

Receipt - 6131 + on chemicals + arrangement for guests. Guest sponsored by SAJAY scientists

Registration fees - 20 outside + 10 inside. 29,30 -> Discuss with CoE.

AP 15/11/24

Mrs. Jaya Madhuri Lakshmi Ms. Carine

19/11/24

Only on 30/11/24 Two staff



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Department of M.Sc., Biotechnology

Student-Scientist Interaction

Report

The Department of Biotechnology, Loyola Academy, organized a student-scientist interaction for MSc Biotechnology students with an opportunity to engage with an expert in the field and explore real-world applications of biotechnology. This event aimed to bridge the gap between academic learning and industrial practices, offering valuable insights into research and development.

Objectives

To gain knowledge about cutting-edge research in biotechnology.

To understand the applications of biotechnology in healthcare, agriculture, and industry.

To provide hands-on exposure through a field visit to an industrial biotechnology facility.

To explore career opportunities and research prospects in the field.

Recourse person:



Dr. Samuel Sparjan

Please click bellow link to know about Dr. Samuel Sparjan

<https://scholar.google.co.in/citations?user=gfPHgdAAAAAJ&hl=en>

Event Overview

The event took place on 11-02-2025 at the Department of Biotechnology, Loyola Academy, featuring Dr. Samuel Sparjan, Scientist-D, Head of the department, Research and Development Centre, Sowbhagya Biotech Pvt. Ltd. Hyderabad. The interaction was followed by a field visit to Agriculture block, where students observed organic fertilizers and their applications in fields.

Presentation by Dr. Samuel Sparjan

Dr. Samuel Sparjan provided an insightful presentation covering:

1. Recent Advances in Biotechnology – Developments in molecular biology, genetic engineering, and bioprocess technology.
2. Applications in Industry – Role of biotechnology in pharmaceuticals, biofertilizers, enzyme production, and agricultural biotechnology.
3. Challenges and Opportunities – Ethical considerations, regulatory frameworks, and career opportunities in the biotech sector.

Students engaged in an interactive discussion, gaining clarity on

- 1.The transition from academia to industrial research.
- 2.Essential skills for biotechnology careers.
- 3.The future scope of biotechnology in India and global markets.
4. Interaction with Industry Experts – Professionals shared insights into research methodologies, product development, and industrial challenges.
5. Biosafety & Regulations – Understanding of Good Manufacturing Practices (GMP), regulatory compliance, and biosafety measures.







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Date: 7-02-25

To
Dr.Samuel Sparjan
Scientist-D and HoD-R&D
Sowbhagya Biotech Pvt Ltd
Hyderabad

Respected Sir
Sub: Invitation for Student interaction and training Session

With respect to above cited subject, I request to you to conduct a Student interaction and training session on 11-02-2025.

Thanking you



With regards

bx
Principal

PRINCIPAL
LOYOLA ACADEMY
OLD ALWAL, SECUNDERABAD-500 010
TELANGANA, INDIA



SOWBHAGYA BIOTECH PRIVATE LIMITED

(An ISO 9001, 14001, 45001 & cGMP Certified Company)

8th Feb, 2025
Hyderabad

To
The Principal,
Loyola Academy,
Old Alwal, Secunderabad-10

Subject: Consent for Student Interaction and Training Session

Dear Sir,

I appreciate your invitation for the student interaction and training session scheduled on February 11, 2025. I am pleased to confirm my participation and extend my consent for the same.

Looking forward to the session and a meaningful engagement with the students.

Best regards,

Scientist-D & GM

Head of the Department
Bioscience
Research and Development Centre
Sowbhagya Biotech Private Limited
Hyderabad, TS- 500051
పరిశోధన మరియు అభివృద్ధి కేంద్రం
సోవభాగ్యా బయోటెక్ ప్రైవేట్ లిమిటెడ్
హైదరాబాద్, తెలంగాణ-500051

School children visited Biotechnology Department

As part of their curriculum, students from Suchitra Academy came to our biotechnology labs to learn about the cutting-edge methods and tools used in biotechnology. This helped them to become more proficient practitioners and made the decision to pursue biosciences as their field of study. Around 100 students belongs to 6 th to 10 standard visited our labs. Students of M.Sc Biotechnology explained about different type's equipments like Microscopes, laminar air flows, PCR and RT-PCR machines, Autoclaves, Plant tissue culture lab animal cell culture with inverted microscope, centrifuges and apparatus used in our dept. Faculty belongs our department helped them in understanding Biotechnology. Rev Fr. Anthony Prabhu, Vice Principal, School of Life Sciences supervised the entire event.









**Interaction with CEO of Bharat Biotech, Padmabhushan Dr. Krishna Ella
on National Science Day-28 th February 2025.**



Padmabhushan Dr. Krishna Ella

https://en.wikipedia.org/wiki/Krishna_Ella

On the occasion of National Science Day, Final year M.Sc students interacted with CEO of Bharat Biotech, Padmabhushan Dr.Kishna Ealla at GITAM University, Hyderabad.

The highlight of the event was an inspiring address by the CEO of Bharat Biotech; Padmabhushan Dr.Kishna Eall.

Dr. Krishna Ella is an Indian scientist and entrepreneur. He is the founder and Executive Chairman of Bharat Biotech. Ella and his company were responsible for developing India's own COVID-19 vaccine, Covaxin, World's 1st clinically proven conjugated Typhoid Vaccine, TypbarTCV and ROTAVAC.

He spoke in detail about the importance of research in science, especially in the field of vaccine discovery. He emphasized the role of innovation in shaping the

future and how perseverance and dedication are key to success in scientific endeavors. His insights on the development of vaccines and the challenges faced in medical research provided valuable learning.

Apart from the lecture, our students also got the opportunity to explore various science exhibitions set up by the university, showcasing groundbreaking research and technological innovations. The visit was highly informative and motivating, as it encouraged students to think creatively and contribute to the scientific community.



Industrial visit to

Indian institute of Millet research, IIMR-CSIR

Indian institute of oil seed research, IIOR-CSIR &

Indian institute of rice research, IIRR-CSIR

Our Biotechnology visited Professor Jayashankar Telangana Agricultural University on Thursday. Approximately 35 students, pursuing an MSc in biotechnology, accompanied by Associate Professor Dr Ch Shirisha and Assistant Professors D Gurudevi and Dr K Padmalatha, explored various facilities including the Institute of Biotechnology, Central Instrumentation Cell, Horticulture Garden, and the Agri Info Hub located within the university's administration building . Students also toured the Indian Institute of Rice Research in Rajendranagar and the Indian Institute of Oilseeds Research. The field trip aimed to enhance their understanding of advanced molecular techniques in biotechnology



Loyola PG students explore PJTAU

HANS NEWS SERVICE
HYDERABAD

A group of postgraduate students from Loyola Academy in Alwal visited Professor Jayashankar Telangana Agricultural University on Thursday. Approximately 35 students, pursuing an MSc in biotechnology, accompanied by Associate Professor Dr Ch Shirisha and Assistant Professors D Gurudevi and Dr K Padmalatha, explored various facilities including the Institute of Biotechnology, Central Instrumentation Cell, Horticulture Garden, and the Agri Info Hub located within the university's administration building.

Prior to this visit, the group also toured the Indian Institute of Rice Research in Rajendranagar and the Indian Institute of Oilseeds Research. The field trip aimed to enhance their understanding of advanced molecular techniques in biotechnology. Scientists at the university addressed the students' questions and provided insights into the laboratory equipment. Dr Anuradha and Dr Laxmi Prasanna from the Institute of Biotechnology explained the latest lab equipment and techniques used in the experimentation labs. Dr V Sudhakar, the Public Relations Officer, coordinated the Loyola students' visit.





వ్యవసాయ విశ్వవిద్యాలయం ను సందర్శించిన లయోలా అకాడమీ విద్యార్థులు

వ్యవసాయ విశ్వవిద్యాలయాన్ని సందర్శించిన లయోల అకాడమీ విద్యార్థులు

బుద్వేల్, జనవరి 9 (ప్రభాత ఉదయం): అల్వాల్ లోని లయోల అకాడమీ విద్యార్థులు గురువారం ప్రొఫెసర్ జయశంకర్ తెలంగాణ వ్యవసాయ విశ్వవిద్యాలయం ను సందర్శించారు. ఎమ్మెస్సీ బయో టెక్నాలజీ చదువుతున్న 35 మంది విద్యార్థులు అసోసియేట్ ప్రొఫెసర్ డాక్టర్ సీహెచ్ శిరీష, అసిస్టెంట్ ప్రొఫెసర్లు గురుదేవి. డాక్టర్ కె.పద్మలత ల ఆధ్వర్యంలో వ్యవసాయ విశ్వవిద్యాలయం పరిధిలోని

ఇనిస్టిట్యూట్ ఆఫ్ బయో టెక్నాలజీ, సెంట్రల్ ఇంస్టిట్యూట్ ఆఫ్ సెల్, హార్విక్లర్ గార్డెన్, పరిపాలన భవనంలోని అగ్రి ఇన్నోహబ్ ను సందర్శించారు. అంతకు ముందు వారి రాజేంద్రనగర్ లోని జాతీయ వరి పరిశోధనా సంస్థ, భారతీయ నూనె గింజల పరిశోధనా సంస్థను సైతం వారు సందర్శించారు. పలు అంశాలలో అవగాహన పెంచుకునే దరుకు ఈ పర్యటన ఉపయోగపడిందని విద్యార్థులు తెలిపారు.

వ్యవసాయ విశ్వవిద్యాలయాన్ని సందర్శించిన లయోల అకాడమి విద్యార్థులు



రాజేంద్రనగర్,జనవరి 09 అల్వార్ లోని లయోల అకాడమి విద్యార్థులు గురువారం ప్రొఫెసర్ జయశంకర్ తెలంగాణ వ్యవసాయ విశ్వవిద్యాలయం సందర్శించారు. ఎం.ఎస్సీ బయోటెక్నాలజీ చదువుతున్న సుమారు 35 మంది విద్యార్థులు అసోసియేట్ ప్రొఫెసర్ డాక్టర్ సి.పాచ్.శిరీష,అసిస్టెంట్ ప్రొఫెసర్లు గురుదేవి,డాక్టర్ కె. పద్మలత ఆధ్వర్యంలో వ్యవసాయ విశ్వవిద్యాలయం పరిధిలోని ఇన్ స్టిట్యూట్ ఆఫ్ బయోటెక్నాలజీ,సెంట్రల్ ఇన్ ప్రూమెంటేషన్ సెల్, హార్టికల్చర్ గార్డెన్, పరిపాలన భవనంలోని అగ్రి ఇన్స్ హాబ్ ను వారు సందర్శించారు. అంతకుముందు వారు రాజేంద్రనగర్ లోని జాతీయ పరి పరిశోధనా సంస్థ,అలాగే భారతీయ నూనె గింజల పరిశోధన కేంద్రం ను కూడా వారు సందర్శించారు.పలు అంశాల్లో అవగాహన పెంచుకునేందుకు



వారు ఈ క్షేత్ర పర్యటన నిర్వహించారు. విద్యార్థులకు ఉన్న ప్రయోగశాలలో పలు ఎక్స్ ప్లింట్ల వినియోగంపై వారికి పలు అనుమానాలను శాస్త్రవేత్తలను నివృత్తి చేశారు. అవగాహన కల్పించారు.