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23.05.2024

CIRCULAR

The Department of Biotechnology is pleased to announce a Value-added Program (VAP) titled "Elevating Science: Unleashing the Potential of Animal Cell Culture," exclusively designed for IV semester MSc Biotechnology students. This program aims to provide an in-depth understanding and practical insights into the advanced techniques and applications of animal cell culture, equipping students with the knowledge and skills essential for cutting-edge research and industry practices. We encourage all eligible students to participate and take advantage of this unique learning opportunity to enhance their academic and professional competencies.

Details of the Program are as follows:

• Dates: May 27th to June 1st

• Venue:Sir MVisveswarayaSeminar Hall/ Animal Cell culture lab/ MSc Biotechnology Lab

NOTE: Kindly wear neat washed aprons for the lab sessions.

Conveners

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Expartment Hapotechnology

M.S. Ramalah College of

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M S Ramaiah College of Arts Science &

MSRIT POST, MSR Jagar Bengaluru - 560 054

Value Added Program Report: Elevating Science - Unleashing the Potential of Science

Introduction: The Value Added Program titled "Elevating Science: Unleashing the Potential of Science" commenced on May 27th, 2024, marking the inauguration of an enriching journey for M.Sc students specializing in Animal Cell Culture. Hosted at the prestigious Sir M Visvesvaraya Seminar Hall, the program aimed to delve into the intricacies of animal cell culture, viability assays, antioxidant assays, and practical applications thereof. The program concluded with a valedictory session on June 1st, 2024, where the accomplishments and experiences were celebrated.

Inauguration (May 27th, 2024): The inaugural ceremony witnessed the presence of esteemed individuals from academia. Dr. Abhijith S R, Assistant Professor in the Department of Biotechnology at MSRIT, served as the first resource person, elucidating the fundamentals of animal cell culture. Dr. Vinay Hegde, Asst. Professor, efficiently managed the event as the Master of Ceremonies (MC), while Dr. Lakshmikanth RN, HoD of Biotechnology department, extended a warm welcome to the gathering.

Exploration Phase: Continuing the journey, Dr. Uma S from Bangalore University, specialized in Forensic Science, enlightened the participants about viability assays and antioxidant assays on May 29th and 30th, highlighting their significance in clinical research. Dr. Anupama S K from Bangalore University, an expert in Microbiology and Biotechnology, led hands-on practical sessions on May 31st and June 1st, focusing on subculturing of cells and the MTT assay, thereby equipping participants with essential laboratory skills.

Participant Engagement: Throughout the program, participants actively engaged in discussions, practical demonstrations, and knowledge-sharing sessions. The enthusiastic participation and keen interest exhibited by each participant contributed significantly to the success of the program. The interactive sessions facilitated a deeper understanding of the subject matter and fostered a conducive learning environment.

Acknowledgments: The organizing committee extends sincere gratitude to Dr. Abhijith S R, Dr. Uma S, and Dr. Anupama S K for their invaluable contributions as resource persons. Their expertise, dedication, and passion for teaching greatly enriched the learning experience of the students. Additionally, appreciation is extended to all participants for their active involvement and enthusiasm, which contributed to the overall success of the program.

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Valedictory Session (June 1st, 2024): The valedictory session served as a platform to reflect on the achievements and experiences gained throughout the program. Dr. M Vinay Hegde, Assistant Professor, led the session as the MC, while Dr. Lakshmikanth RN, HoD, delivered the welcome address. Dr. Muktha H, Assistant Professor, presented a comprehensive report summarizing the program's highlights. The resource persons, Dr. Abhijith, Dr. Uma S, and Dr. Anupama S K, shared their insights and reflections on the program. Dr. Pushpa H, Vice-Principal of MSRCASC, delivered an address, followed by presidential remarks from Dr. Vatsala G, Principal of MSRCASC. The session concluded with a vote of thanks delivered by Dr. Jayashree D R, Professor.

Conclusion: The Value Added Program on "Elevating Science: Unleashing the Potential of Science" proved to be a remarkable journey of knowledge and exploration for the M.Sc students specializing in Animal Cell Culture. Through the expertise of resource persons, active participation of students, and dedicated efforts of the organizing committee, the program successfully achieved its objectives, leaving a lasting impact on the academic and professional growth of the participants.



Glimpses of Animal Cell Culture Value added Programme



Department of Biotechnology

Organises

Value Added Programme On

Elevating Science:
Unleashing the potential
of Animal Cell Culture

27 May - 1 June 2024 (For MSc Biotechnology Students)



Convenors Dr. Sowbhagya R Dr. Muktha H

* Name &

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Revend academics, the department is committed to facilitating facilities development among students. Various curricular and extraouristular activities are organized to breaden their broadings base and enhance their skill set. These activities not only ougglement their ecodemic learning but also prepare them for multiheating opportunities in the dynamic facil of biotechnology and pre-price.

About the Value assisted Course

The Value-active course on Animal Cell Culture offers students a comprehensive understanding and practical experience in a fundamental biotechnological technique free are some bay points about the course.

- Introduction to Animal Cell Culture Students will learn about the principles and techniques involved in priceing animal cells in a controlled environment.
- 2 limitation and Culture of Colla? The course covers the precess of exciteting early from animal tiscues and estimating them under artificial conditions, providing insights into red behaviour and growth dynamics.
- 2 Hefunical Ferspective. Students will englars the evolution of animal cell culture from its engine as a leboratory technique to its current applications in various trains.
- A Media Correlepment. The development of basic tissue sulture media is officially highlighting its crucial role in enabling the greath of a wide range of cable under different conditions.
- Eurotional Studies: Through in vitre culture of isolated code from different entimals, students gain insights into the functions and mechanisms of operation of serious cod types, contributing to the advancement of biological brownings.
- If Applications. The course defines into the diverse applications of animal guill culture, including its role in concer research, vaccine production, and game therapy. Students understand how this technique is private in these areas and its contribution to extending and madical advancements.
- 7 Fractical Training transferon training in laboratory settings above students to gain practical expensions in handling call cultures, performing experiments, and analysing results, preparing them for future research or professional endocurses in limitscheelegy.

PATRONS Dr. M.R. Joyanam Chairman Sri M.R. Janakiram, Birector, GE Sri M.R. Kondandaram, Director Sri B.S. Ramaprasad. Sti G. Ramachandra, Chief of Fi Dr. Votable G. Principal, MSRC. Prof. Suresh J. Deputy Registra Dr. Pushpa M. Vice Princip College Co- Ordinator RESOURCE PERSONS Dr. Abhijith S R , Assistant Profi Dept of Biotechnology, MSRIT Dr. Uma. S. Assistant Professor. I of Forensic Science, Bangalore University Dr. Anupama S K. Assistant Pre Dept. of Microbiology & Biotechnology, Bangalore Univers ORGANIZING COMMITTEE Dr. Lakshmikanth R N. HoD, Dept. of Biotechnology Dr. Channarayapa, R& D Head Dr. Jayashree D.R. Professor Dr. Sowbhogya R. Asst Professor Dr. Muktha H. Asst Professor Dr. Ramesha N. Professor Dr. Vinay Hegde, Asst Professor



Course Modules

- Fundamentals of Animal Cell Culture:
 Understanding the basic principles and techniques involved in animal cell culture.
- Cell Subculturing and Maintenance Protocols: Practical guidance on subculturing techniques and maintaining cell lines for sustained growth and viability.
- Drug Efficacy Testing using Cell Lines:
 Exploring methods and protocols for assessing the effectiveness of drug samples on cultured cell lines.
- Cell Viability Assessment Techniques:
 Hands-on training in various assays and
 methods used to evaluate cell viability and
 cell counting techniques.
- Exploring Applications in Biotechnology and Medicine: Examining real-world applications of cell culture techniques in biotechnology, cancer research, vaccine development, and regenerative medicine.



Course Duration: 30 Hours Time: 11.00 am - 4.30 pm Scan for Registration



Last date for registration:
20 May 2024
Certificate will be provided upon
successful completion
of the course.

Course outcome

On sucessful completion of the course Students will be able to:

- Gain a comprehensive understanding of the fundamental principles underlying cell culture techniques
- Develop proficiency in utilizing animal cell culture systems to investigate cellular metabolism, unravel the intricacies of cellular function in health and disease.
- Acquire practical skills in manipulating the microenvironment of cultured cells, and optimizing cell-substrate attachment, thereby facilitating experimental design and data interpretation.
- Explore the diverse applications of animal cell culture in biomedical research and biotechnology, recognizing its pivotal role in advancing scientific knowledge and therapeutic innovations





Value Added Program "Elevating Science: Unleashing the Potential of Animal Cell Culture"

Date: 27th May to 1st June 2024

Participants: IV Sem MSc Biotechnology students

Time: 11.00 a.m. to 4.30 p.m.

Venue: Sir M Viveswaraya Seminar Hall, Animal Cell Culture lab and MSc lab

Programme Schedule

Day	y Date	Resource persons	Modules
1	27/05/24	Dr Abhijith K R	Fundamentals of Animal Cell Culture
2	28/05/24	Dr Abhijith K R	Cell subculture, maintenance and drug efficacy testing
3	29/05/24	Dr Uma S	Cell viability assessment techniques
4	30/05/24	Dr Uma S	Exploring applications in biotechnology and medicine
5	31/05/24	Dr Anupama S K	Hands on session of cell viability assessment
6	01/05/24	Dr Anupama S K	Hands on session of cell viability assessment

Value Added Programme on

"ELEVATING SCIENCE: UNLEASHING THE POTENTIAL OF ANIMAL CELL CULTURE"

Organized by the Dept. of Biotechnology from 27th May to 1st June 2024

VALEDICTORY SESSION - 1st June 2024

Venue: Sir M Visweswaraya Seminar Hall

Time: 11.30 a.m. to 12.00 noon

Programme schedule

MC	Dr. Vinay Hegde, Assistant Professor
Welcome	Dr. Lakshmikanth RN, HoD
address	·
Comprehensive	Dr. Muktha H, Assistant Professor
Report	N. CODYM
Address by	Dr. Abhijith, Dept. of Biotechnology, MSRIT
Resource	Dr. Uma S, Dept. of Forensic Science, Bangalore University
Persons	Dr. Anupama S K, Dept. of Microbiology & Biotechnology, Bangalore University
Address by	Dr. Pushpa H, MSRCASC
Vice-Principal	
Presidential	Dr. Vatsala G, Principal, MSRCASC
Remarks	
Vote of Thanks	Dr. Jayashree D R, Professor



Value Added Program - "Elevating Science: Unleashing the Potential of Animal Cell Cultures"

Date: 27th May to 1st June 2024 Participants: III Sem MSc students

Time: 11.00 a.m. to 4.30 p.m. Venue: Sir M Vishweshwaraya Seminar hall, Animal Cell Culture lab and MSc lab

Attendance Sheet

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