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PROGRAMME REPORT ON

Guest Lecture-Unrevealing the Metabolomics of Phytodrugs in Drug discovery and development

Resource Person

Dr.P.Suresh Kumar, HoD, Biotechnology Anna university, Trichy

Organized by

Bio-Tech- PMIST

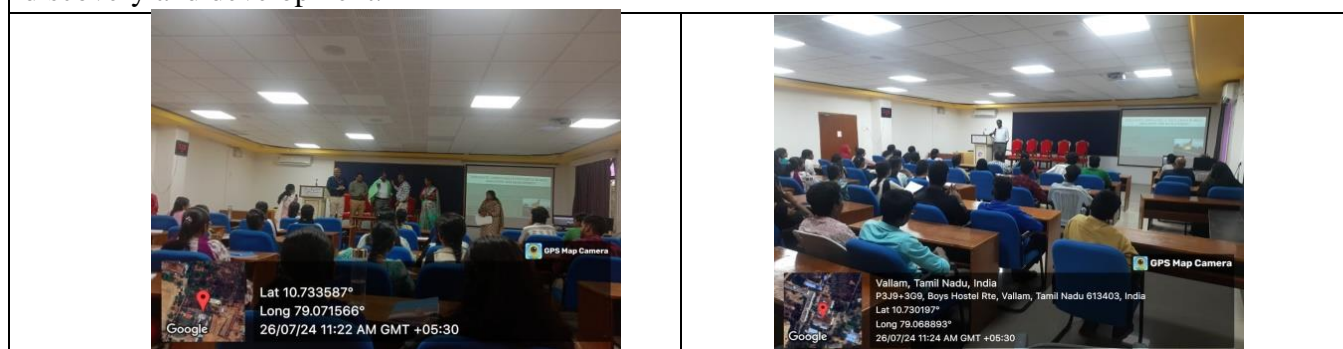
Name of the programme	Unrevealing the Metabolomics of Phytodrugs in Drug discovery and development
Date	26 07 2024
Venue	Richard Dawkins Hall , PMIST
Number of Participants	40
Resource Person:	Dr.P.Suresh Kumar, HoD, Biotechnology Anna university, Trichy

Report of the Event

The objective of the program is to explore the role of metabolomics in understanding the pharmacological properties of Phyto-drugs, and its application in drug discovery and development. The lecture aims to provide biotechnology students with insights into how metabolomics can enhance the efficacy and safety of natural products in therapeutic use.

The lecture titled "Unrevealing the Metabolomics of Phyto drugs in Drug Discovery and Development," delivered by Dr. P. Suresh Kumar, aimed to shed light on the significance of metabolomics in the field of Phyto pharmaceuticals. Dr. P. Suresh Kumar discussed how metabolomics, the study of small molecules or metabolites in biological systems, plays a pivotal role in understanding the complex biochemical processes underlying the therapeutic effects of plant-based drugs. The lecture highlighted the potential of metabolomics to identify biomarkers, improve the safety and efficacy of phytodrugs, and facilitate the optimization of drug development processes. By examining the metabolic profiles of plants used in traditional medicine, students were introduced to the cutting-edge technologies that are reshaping the future of drug discovery and development. The lecture provided biotechnology students with an in-depth understanding of how metabolomics can help uncover the therapeutic mechanisms of phytodrugs, guide the development of novel drugs, and ensure their clinical success. The session also underscored the importance of interdisciplinary collaboration between biotechnology, pharmacology, and chemistry in advancing the field of natural product-based drug development.

The outcome of Dr. P. Suresh Kumar's lecture on "Unrevealing the Metabolomics of Phyto drugs in Drug Discovery and Development" provided biotechnology students with a comprehensive understanding of the critical role metabolomics plays in the exploration and development of plant-based therapeutic agents. Students gained valuable insights into how analyzing the metabolic profiles of plants can reveal key bioactive compounds, enhance drug efficacy, and reduce potential side effects. They also learned about the potential of metabolomics to bridge traditional medicine and modern drug discovery, enabling the identification of new molecular targets for therapeutic intervention. Overall, the session broadened the students' perspective on the emerging field of phytomedicine, encouraging them to explore its potential in their future research and careers in drug discovery and development.



Programme schedule / Circular / brochure:



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Unrevealing the Metabolomics of Phytodrugs in Drug discovery and development

26.07.2024, RICHARD DAWKINS HALL , PMIST

**Dr.P.Suresh Kumar, HoD,
Biotechnology Anna university, Trichy**

Theme: Therapeutic Approaches of
phytodrugs in drug discovery and
development

**Organized by
Department of Biotechnology**

Participant's list

S.No	Register Number	Name	FN
1.	1012024002	S.Sivasarathi	S.S. Sivasarathi
2.	1012024003	T.Vanchinathan	T.V.
3.	1012024004	Agalya A	A. Agalya
4.	1012024007	G.A.Mahalakshmi	G.A. Mahalakshmi
5.	1012024008	Jayashree	Jayashree
6.	1012024009	M. Kalpana	M. Kalpana
7.	1012024010	Sabarinathan I	T. Sabarinathan
8.	1012024011	B.Halith Bucker	Bucker Don
9.	1012024012	Tanniska Shri. R.A	R.A. Tanniska Shri
10.	1012024013	Ruban P	Ruban
11.	1012024014	Abishek	P. Abishek
12.	1012024015	M. Mohamed Safik	M. Mohamed Safik
13.	1012024016	Nanditha	Nanditha
14.	1012024018	Dhayanithi. A	Dhayanithi. A
15.	1012024019	B.Tharagai	B. Tharagai
16.	1012024020	Renuga Devi S	Renuga Devi. S
17.	1012024021	Sidharth Mohan	Sidharth Mohan
18.	1012024022	Amirtha Varshini Palanisamy	ABSEN
19.	1012024023	Sameera M	ABSEN
20.	1012024024	G.Dhivya Narayanan	G.Dhivya Narayanan
21.	1012024025	Mohamed Raja. R	Mohamed Raja. R

22.	1012024026	C.Mathibhaskarshwaran	C.Mathibhaskarshwaran
23.	1012024027	S.Bhavana	ABSEN
24.	1012024028	Atchaya R	R. Atchaya
25.	1012024029	Santhoshkumar. T	T. Santhoshkumar
26.	1012024030	B.Rajabalaji	B. Rajabalaji
27.	1012024031	Srinithi	S. Srinithi
28.	1012024032	Sri Padhmawathi.R	Sri Padhmawathi.R
29.	1012024033	Manojkumar.D	D. Manojkumar
30.	1012024034	Lavanya Lakshmi.G	ABSEN
31.	1012024035	Yokesh S	S. Yokesh
32.	1012024036	Harshavarthini G	G. Harshavarthini
33.	1012024037	Poojha. S	P. Poojha
34.	1012024038	Princiya Mary.X	P. Princiya Mary
35.	1012024039	Akshya Krishna R S	R. S. Akshya Krishna
36.	1012024040	Noora Jasmine. S	S. Noora Jasmine
37.	1012024041	Harini .K. R	H. Harini
38.	1012024042	Gifta. J	J. Gifta
39.	1012024043	Niranjini.M	M. Niranjini
40.	1012024044	Jessica Miracline .E	ABSEN
41.	1012024045	Bahavadarani.D	D. Bahavadarani
42.	1012024046	Sowmiya J	ABSEN
43.		Vinesh Raj. E	E. Vinesh Raj
44.		K.Dharshini	K. Dharshini



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