Centre for Bioscience and Nanoscience Research Affiliated to Bharathiar University | DSIR SIRO Recognized | An ISO 9001: 2015 Certified 461/3 Amman Nagar, L&T Bypass Road, Eachanari, Coimbatore - 641021





Visalakshi Educational Trust

461/3, Amman Nagar, L&T BY Pass Road, Eachanari, Coimbatore-641 021, Tamil Nadu, India

Annual Report - 2024

About CBNR

The Centre for Bioscience and Nanoscience Research (CBNR) was established in 2010 under the Visalakshi Educational Trust, Coimbatore, with the aim of providing a collaborative platform for biologists to engage in knowledge exchange and benefit mutually. CBNR is dedicated to offering high-quality research facilities across various disciplines of life sciences. It is ISO 9001:2015 certified for its infrastructure and facilities and is affiliated with Bharathiar University, Coimbatore. The institute currently offers full-time and part-time M.Phil. and Ph.D. programs in Microbiology and Biotechnology and is recognized as a research institute by DSIR and SIRO.

CBNR is equipped with a well-furnished laboratory featuring modern automated instruments, enabling advanced research under the guidance of distinguished scientists from around the world. Our key research areas include bio-prospecting of polymer-based nanoscience, food nano-biotechnology, industrial nanoscience, and agricultural and medical microbiology.

CBNR comprises two full-time research supervisors, Six faculty members, eight Ph.D. scholars, and a technical assistant. Committed to excellence, CBNR takes a unique approach to delivering high-quality training and focus on providing innovative and customized programs tailored to meet the specific needs of students across various disciplines, including Biological Sciences, B.Tech., M.Tech., B.Sc., M.Sc., B.Pharm., M.Pharm., M.Phil., Ph.D., PDF, and other fields of life sciences.

Vision and Mission Statement

Our motto is "Towards Excellence"

CBNR is a premier center for higher learning in the life sciences, catering to both academic and industrial needs through research and development at an affordable cost for students. Our goal is to equip students and research scholars with essential skills in life sciences, enhancing their employability and fostering a deeper passion for the subject.

Accreditations

- ♣ Affiliated to Bharathiar University to conduct M. Phil. and Ph.D. in Microbiology and Biotechnology
- ♣ DSIR and SIRO Recognized Research Institute
- **↓** ISO 9001:2015 Certified
- **♣** MSME Approved
- **♣** BCIL Certification
- FSSAI Certified

Highlights of CBNR

- ♣ More than 115 papers published in National and International Journals
- Conducted 29 workshops & 5 Faculty Development programme
- **↓** 13 MoU with leading colleges / Industry support for the placement
- **↓** 58 students got placement so far
- ♣ Fee concession and free training for the merit & economically weaker students
- ♣ Experienced research scientist / Eminent visiting scientists from industry and academia.
- ♣ Enrichment scientific knowledge / panel discussion with scientists

Facilities

Being an Research Institute committed to do more Research works it was decided to have separate Research Lab for Microbiology, Biotechnology, Nanotechnology and Food and Nutrition by utilizing optimum space, natural light, and breeze for each lab with well equipped instruments. At present the working space of lab is more than 3500 sq.ft excluding seminar hall, library, office rooms, lounge area and garden. Free Wi-Fi campus with separate hostel for research scholars and staff members.

Benefit to the Society

In recent years, there has been a decline in the number of students opting for bioscience courses, primarily due to a lack of awareness and a limited number of technically skilled professionals in the field. To address this, we aim to raise awareness among undergraduate and postgraduate students in universities and colleges about the significance of Life science courses and its vast potential applications.

The rapid and ongoing advancements in life sciences are shaping a future fueled by innovative tools in Microbial biotechnology, Molecular biology, Food technology, and Nanotechnology. As a knowledge-driven field, Life science courses thrives on the continuous flow of new ideas and concepts, driving the development of cutting-edge research tools that contribute to a sustainable and green environment.

Area of Research work carried out in CBNR

- ♣ Molecular Biology/ rDNA technology /Medical Molecular Microbiology
- ♣ Bio nanotechnology Synthesis of Silver/ Gold / CNTs nanoparticles and its textile/medical applications
- ♣ Plant Biotechnology/ Ethanobotany and Biopharmacological Research
- ♣ Microbial enzyme technology / Bioremediation / Food Science
- Agricultural/ Food Microbiology/ Biotechnology / Bio preservative
- **♣** Environmental Biotechnology / Aquatic stress management
- ♣ Microbial diagnosis using rDNA technology / Plasmid mediated
- ♣ Protein Engineering / All types of Bioinformatics work
- ♣ Bioactive compounds/ antioxidant/ characterization from Herbal plants/ Microbes / Phytochemistry
- Animal cell culture / cancer biology
- ♣ Herbal drug formulation
- ♣ Nanoparticle synthesis using biopolymer, biomolecules etc.

Highlights of 2024

- Recognized by DSIR SIRO from June 2024
- **♣** FSSAI
- **↓** 17 Research Article Paper published in Scopus / Web of Science / UGC approved Journals
- **♣** 26 NCBI gene sequence submitted
- **↓** Conducted 1 national level FDP
- **1** National level Workshop
- **♣** Signed New 3 MOU with different College/ Institutions
- **↓** Trained more than 426Students from Various college
- **↓** 159 Students were undergone for intership,
- **↓** 102 Students did their main project in different topic
- **↓** 7 Workshop was conducted for different college students
- Patent awarded/ Granted / Published 3

Teaching committee

Teaching is the process of imparting knowledge, values, skills and attitudes to learners through, guidance, practice and instruction. It involves facilitating learning, fostering critical thinking, and nurturing personal and intellectual growth. Effective teaching goes beyond delivering information—it inspires curiosity, encourages problem-solving, and helps students develop the ability to apply knowledge in real-life situations. Teachers are an essential pillar of any educational institution, playing a vital role in imparting knowledge and shaping students' minds to navigate various challenges. Centre for Bioscience and Nanoscience research (CBNR) itself of having proficient and experienced faculties who work tirelessly to uphold the values and principles of the institution. The faculty members work towards creating an environment that is conducive to learning the practical knowledge, By effectively instilling discipline in students and guiding them toward the right path for a promising future.

Faculty profile

The faculty members of Centre for Bioscience and Nanoscience research have continually demonstrated excellence and distinction through their academic achievements and contributions. Their research curiosity, determination, and passion for academia have propelled them to reach new milestones.

• Chairman

Mrs. R. Nagarathinam

Centre for Bioscience and Nanoscience Research

• Trustee

Dr. R. Harshini, BAMS BAMS Doctor, Certified Medical Coder, Specializes in Ayurveda Freelance writing and content creation for wellness and alternative medicine Coimbatore, TamilNadu

• College Committee Member (Bharathiar University Nominee)

Dr.K. Srinivasan Professor and Head, Department of Physics, Bharathiar University, Coimbatore, TamilNadu

Director

Prof. Dr. R. Ragunathan., Ph.D., FSAB., Centre for Bioscience and Nanoscience Research Coimbatore, TamilNadu

• Head of the Departments - Food science and Nutrition

Dr. Jesteena Johney., Ph.D., Centre for Bioscience and Nanoscience Research Coimbatore, TamilNadu

Microbiology

Dr. K. Thangamariappan., Ph.D., Centre for Bioscience and Nanoscience Research, Coimbatore, TamilNadu

• Microbiologist

Ms. Abirami V, M.Sc., Centre for Bioscience and Nanoscience Research, Coimbatore, TamilNadu

• Biotechnologist

Ms. Vishnu Priya R, M.Sc., Ms. Mridhuna Manoharan, M.Sc., Centre for Bioscience and Nanoscience Research Coimbatore, TamilNadu

• Industrial Expert

Mr. V. Subramanian., Director SynKroMax Biotech, Chennai, TamilNadu

• Chief Executive advisory

Dr. Natarajaseenivasan Kalimuthusamy, Ph.D., Professor, Department of Microbiology Bharathidasan University Tiruchirappalli Tamil Nadu

• Visiting Scientist

Dr. Girilal M, Ph.D., Associate Professor and Head, Dept of Food Tecxhnology, Saintgits College of Engineering, Kerala

• Scientific Advisory Committee

Mr. Arun Joy Mulackal Sweid Foods Ltd, QA Technician British Columbia

Ph.D awardee / Thesis submitted

❖ From the Department of Biotechnology, Mrs. Kalima.S has submitted her thesis and awrded Ph.D from Bharathiar University in February 2024 for her thesis titled "Bioprospecting of *Bacillus subtilis, Bacillus endophyticus* and *Bacillus tequilensis* isolated from cultivated land soils and its potential applications".



❖ From the Department of Biotechnology, Mrs. Shameela Khadeeja has submitted her thesis and awrded Ph.D from Bharathiar University in April 2024 for her thesis titled "Bioprospecting study of various bioactive compounds extracted from mangrove plants Acanthus ilicifolius, Bruguiera gymnorhiza and Excoecaria agallocha and its potential applications – A comparative study".



FDP conducted by CBNR

These sessions are designed to enhance teaching methods by reflecting on personal experiences in teaching, learning, and assessment. The initiative emphasizes professional development through conversation and the exchange of experiences.

CBNR has organized 5 days Online FDP programme on February 2024 (5 to 9) on "Perspectives Innovations and Future Developments in Biological Sciences" – PIFDB-24. Totally 46 members participated including faculty members, and research scholars from various states.



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Faculty Development Programme 2024 (Online)

5th February 2024 to 9th February 2024. (5 days)

"Perspectives, Innovations and Future Developments in Biological Sciences"

(PIFDB- 24)

About CBNR

Centre for Bioscience and Nanoscience research (CBNR) was founded in 2010 under Visalakshi Educational Trust, Coimbatore. The goal of CBNR is to render a common platform for the biologists to interact with each other mutual benefit and providing high quality research facilities in various disciplines of life sciences. It has been certified by ISO (9001-2015) for its infrastructure and facilities. It is affiliated to Bharathiar University, Coimbatore and it presently offers full time / part time M. Phil., and Ph.D., programs in Microbiology and Biotechnology. Centre for Bioscience and Nanoscience Research (CBNR) is imparting cutting-edge practical skills and knowledge to the students pursuing bachelor's, master's, and doctoral degree programmes in medicine, pharmacy. Food, agri, civil engineering, biotechnology, miocrobiology, biochemistry, biosciences and more. CBNR has signed MoUs with 10 educational institutes/industries and received one patent .

OBJECTIVE of the FDP (PIFDB- 24)

The key objective of this FDP is to acquire updated with the awareness on scientific developments beside with the advancement in the field of Biosciences. The PIFDB- 24 aim to prepare faculty members scientists and research scholars to grasp better how biosciences. It also focuses on the impact of scientific advancements and technological innovations in today's era. The PIFDB- 24 content is projected to provide development of recent advancement in the areas of Biosciences.

- Last date for Registration: 01/02/2024
- Registration fee: 450/Gpay
- Mode of Programme: online
- •Time: 3.00 pm to 4.15 pm Certificate will be Provided



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- MAX LIMIT 100 Participants
- Selection will be done on First Come First Serve Basis.
- Targeted Participants:
- HoDs/Assistant and Associate professors / Scientists/BoS / IQAC coordinators /NAAC Coordinators/NBA coordinator



Prof. K. Emmanuvel Rajar

Prof. Basavaraj Hungund





Dr. S.Vijayanand

An Innovative Path for Better Society

Dr. Davit B. Dhruv





DR. Maruvoorarasi Prabu

CBNR Organising Committee

CHIEF PATRON

Dr. R. Ragunathan

Director, Research Supervisor Centre for Bioscience and Nanoscience Research Coimbatore, Tamil Nadu, India

CONVENER

Dr. Jesteena Johney Head of the Institution

Centre for Bioscience and Nanoscience Research Coimbatore, Tamil Nadu, India

MEMBER

Dr. K. Thangamariyappan

Scientist, Dept. of Microbiolog Centre for Bioscience and Nanoscience Research Coimbatore, Tamil Nadu, India

Advisory committee

DR. Sevanan Murugan

Associate Professor Department of Biotechnology Karunya Institute of Technology and Sciences (Deemed to be University) Karunya Nagar, Coimbatore- 641 114, Tamil Nadu, India

Dr. Senthil Kumar

Research Directo Sree Abirami College of Pharmacy Coimbatore, Tamil Nadu, India



Centre for Bioscience and Nanoscience Research



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Faculty Development Programme 2024 (Online)

5th February 2024 to 9th February 2024. (5 days)

"Perspectives, Innovations and Future Developments in Biological Sciences"

(PIFDB-24)

Day I (05-02-2024)

Program Schedule 3.00 - 4.00 p.m.

Day II (06-02-2024)

Dr. S. Vijayanand Dr. Davit B. Dhruv Young Innovative Technologist, Assistant Professor,

Associate professor Department of Life sciences Kristu Jayanti College Bangalore , Karnataka. India

"Unveiling the Potential of Phytochemicals"

Day III (07-02-2024)

Department of Physics, Saurashtra University

Rajkot - 360005. Gujarat, India. "Nano Science to Nano Technology: An Innovative Path for Better Society

Prof. Basavaraj Hungund

Professor and Head, Department of Biotechnology KLE Technological University Hubballi-580031. Karnataka. India

"Importance of research and innovation in life science education"

Day IV (08-02-2024)

DR. Maruvoorarasi Prabu Innovation fellow at BIRAC EYUVA CENTRE PSGR Krishnammal College for Women Coimbatore

"Innovations in Modern Biological Sciences and Research Funds Generation"

Day V (09-02-2024)

Prof. K. Emmanuvel Rajan

Head, Department of Animal Science Chair School of Life Sciences Bharathidasan University, Tiruchirappali - 620024

"Social Behavior: The Contribution of early-life Social Experience"

Centre for Bioscience and Nanoscience Research

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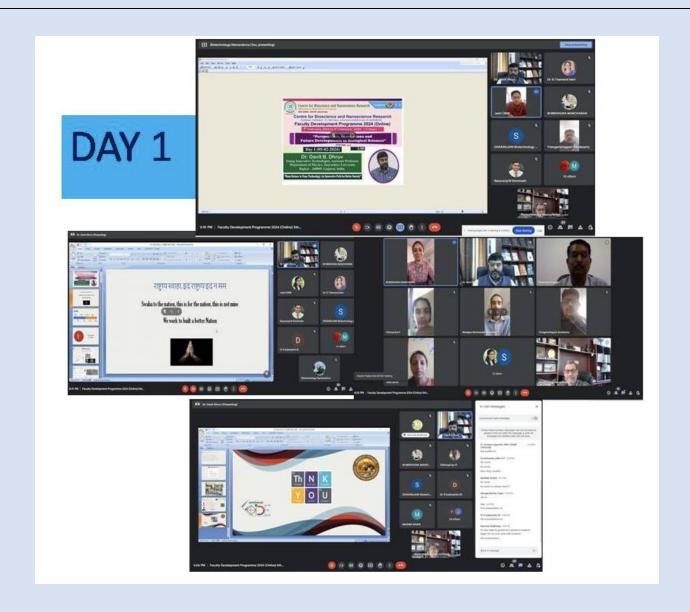
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0422-2930408, 9894303087 cbnrcindia@gmail.com www.cbnrindia.com







Membership in professional bodies

❖ Faculties of Dr. R. Ragunathan, Dr. Jesteena Johney, Ms. Mridhuna Manoharan, Ms. Vishnupriya R, Ms. Abhirami V, took membership in BGR publications since October 2024.



- ❖ Dr. R. Ragunathan was certified for Premium Membership in Universal Society of Food and Nutrition from 16.12.2024.
- ❖ Dr. R. Ragunathan was a fellow member of I20R India, International Institute of organized Research from 4th October 2024

Provided Expert Peer Review for National and International Journals

- ❖ Dr. Jesteena Johney acted as a peer Reviewer for the International Journal Food Science and Applied Biotechnology on 15 January 2024.
- ❖ Dr. R. Ragunathan acted as a Reviewer for the Asian Journal of Food Research and Nutrition on 29 January 2024.
- ❖ Dr. Jesteena Johney awarded for the Excellence in reviewing a Research paper for Journal of Advances in Biology and Biotechnology 7th December 2024.
- ❖ Dr. R. Ragunathan acted as a Reviewer for the Heliyon Journal on November 2024
- ❖ Dr. R. Ragunathan acted as a Reviewer for the Journal of Environmental Biology

 December 2024

Courses completed by faculty members

❖ Dr. . Ragunathan attended two days webinar on 'Biomanufacturing of fermented milks: a step towards health status and social well being' organized by SMC College of diary science, Kamadhenu University, Anand (Gujarat) in association with Biotechnology Industry research assistance council (BIRAC) DBT, government of Indiaduring 18 and 19 January 2024.

Award

❖ International Innovative Scientist Award – Dr. R. Ragunathan, Director and Research Supervisor, Centre for Bioscience and Nanoscience Research, Awarded by the Honorable Education Minister of Tamil Nadu, Mr. Anbil Mahesh Poyyamozhi in the conference "International Science Technology and Research Awards Congress 2024" on 20 December 2024.

Research Activities

Research advisory committee meeting

Centre for Bioscience and Nanoscience Research annual Research Advisory Committee (RAC) meetings to assess the progress of PhD scholars and provide guidance, feedback, and recommendations on research projects, proposals, and initiatives. These efforts aim to foster and strengthen the research culture on campus. Committee members ensure that all research activities align with best practices, ethical standards, and the institute strategic objectives. The committee consists of the following members:

1) Prof. Dr.R.Ragunathan,

Director Centre for Bioscience and Nanoscience Research Coimbatore, TamilNadu

2) Dr. Jesteena Johney

Head of the Departments - Food science and Nutrition Centre for Bioscience and Nanoscience Research Coimbatore, TamilNadu

3) Dr. Rama bhat P

Head, Department of Biotechnology, Alvas College Moodbidri, Karnataka

4) Dr. G. Rajalakshmi

Head, Department of Biotechnology, Hindustan college of arts and science, Coimbatore, TamilNadu

5) Dr. Dhanya V

Assistant professor and Head

Department of Microbiology

San International College of Arts and science, Coimbatore, TamilNadu

Research Review Meeting

Research Review meeting for the Ph.D Research scholar was conducted on 26.07.2023 at Johnas salk seminar hall, all the research scholar of Department of Biotechnology and microbiology was participated and presented their research finding. Dr. P. Selvakumar, Associate professor and Head, Department of Biotechnology and Nanotechnology, PSGIAS, Coimbatore.

DC meeting conducted for the Department of Biotechnology

❖ DC meeting for Mrs. Brinda C.M, Department of Biotechnology, Centre for Bioscience and Nanoscience Research was conducted on 28.06.2024, in the presence of DC member Dr. Thamarai, Department of Microbiology, Sri Ramakrishna College of Arts and Science, Coimbatore.



❖ DC meeting for Mrs. Linima V.K, Department of Biotechnology, Centre for Bioscience and Nanoscience Research was conducted on 10.09.2024, In the presence of DC member Dr. S. Mohandas, Department of Biochemistry, PSG College of Arts and Science, Coimbatore.



❖ DC meeting for Mrs. Geethu Suresh, Department of Biotechnology Centre for Bioscience and Nanoscience Research was conducted on 11.09.2024, In the presence of DC member Dr. S. Mohandas, Department of Biochemistry, PSG College of Arts and Science, Coimbatore.



Research Article Published in National and International Journal

Sl.	Authors	Title of the work	Name of the	Year,
No			Journal	Volume,
				Page No.
1	RV M. Swarnalatha,	Biogenic Synthesis of Silver	Journal of	2024.
	R. Ragunathan,	Nanoparticles using Chromolaena	Environmental	13 (4), 59
	Jesteena Johney	odorata Leaf Extract and its	Nanotechnology	
		Antioxidant, Antimicrobial, and		
		Anticancer Activitie		
2		Optimization of laccase production by	Biomass	2024
	Geethu Suresh,	Pleurotus pulmonarius through solid	Conversion and	
	Ragunathan R,	substrate fermentation of tender coconut	Biorefnery	
	Jesteena Johney	fber: enhanced laccase production and		
		biomass delignification		
3	KT Thendral, M	Development of manganese cobalt oxide	Inorganic	2024
	Amutha, R	(MnCo2O4) nanoparticle as	Chemistry	168,
	Ragunathan, K	multifunctional agents for antibacterial,	Communications	112854
	Saranya	anticancer and dye degradation		
		applications		
4	Geethu Suresh,	Assessing the impact of corn steep	Nano-Structures	2024
	Ragunathan R,	liquor as an inducer on enhancing	& Nano-Objects	39, 101226
	Jesteena Johney	laccase production and laccase gene		
		(Lac1) transcription in <i>Pleurotus</i>		
		pulmonarius during solid-state		
	Ragunathan R,	Evaluation and characterization of	Plant science	2024.
	Jesteena Johney, S.	vachellia leucophloea ((Roxb.) Maslin,	Today	11(1); 160-
	Sandhya	Seigler & Ebinger using phytochemical,		170
		antioxidant, GC-MS, antibacterial, and		
		anticancer properties		
6	Ragunathan R,	Biosurfactant production by Bacillus	Journal of	2024.
	Jesteena Johney,	amyloliquefaciens, characterization and	Environmental	45(3); 338-
	C.M. Brinda	its potential applications	Nanotechnology	348
7	K. Tamil Thendral,	Versatile biopolymer–functionalized	Ceramic	2024.
	M. Amutha,	copper cobalt oxide nanocomposite	international	50(10);
	R. Ragunathan	(Ch/CuCo ₂ O ₄): Synthesis and		16929-
		applications in antibacterial, anticancer,		16939
		and photocatalysis		

8	Parvathy Menon P R	Anti-Diabetic Activity And Anti-	Journal of	2024.
	Nirmala Devi N	Oxidant Activity of <i>Kalanchoe Pinnat</i> a	Survey in	11(4); 32-
	R Ragunathan	and their Characterization Studies.	Fisheries	38
	Jesteena Johney		Sciences	
9	Sidharth.K Sruthy	Characterization of the Phytochemicals	Journal of	2024. 45
	Mohan, M.	and Antioxidant Properties of Extracts	Advanced	(3); 718-
	Thangavel, R.	From <i>Wrightia Tinctori</i> a R.Br.	Zoology	725
	Ragunathan	O		
10	Ramachandra	Exploring the therapeutic potential of	Food Science	2024. 7 (1)
	Ragunathan Rithish	cinnamon and clove essential oils for	and Applied	122-132
	Jayakumar Pranav ,	mitigating foodborne diseases:	Biotechnology	
	Sasidharan Satheesh	bioactivity and molecular interactions		
	Kumar, Pugalenthi	•		
	Ragul Rangaraj,			
	Karthikeyan			
	Sangapillai			
11	Keerthana	Effect of Microencapsulation on the	Research Journal	2024. 17
	Manoharan, P	Antidiabetic and Antioxidant activities	of Pharmacy and	(1); 149-
	Chitra, R	of Elaeocarpus tectorius (Lour.) Poir.	Technology	155
	Ragunathan	Leaf extracts-An In vitro study		
	K Narayanasamy, S	Phytometabolite Profiling Of	Journal of	2024
	Mohan, K Baskaran,	Combretum Indicum (L.) Defilipps And	Advanced	45(3)
	R Ragunathan	Its Characterization Studies.	Zoology	
12	N Nirmala Devi, R	Phytochemical Profiling Using GCMS	Journal of	2024. 45(3)
	Ragunathan, K	And Antioxidant Activity of Alpinia	Advanced	
	Baskaran	Purpurata Flower Extract	Zoology	
13	M Parivendhan, M	Molecular identification of bacteria	International	2024. 11
	Harini, A Dharaniya,	(Klebsiella aerogenes, PP335235)	Journal of	(2); 1198-
	N Kansiya, R	isolated from street food (Fried Rice);	Science and	1216
	Ragunathan, N	study of its antibiotic sensitivity pattern	Research	
	Saravanan		Archive	
14	R. Ragunathan	Phytochemical Screening,	Journal of	2024.
	Sreelekha. K.	InvitroAntioxidant, Anti-Diabetic, Anti-	Advanced	45(2); 369-
	Nirmala Devi. N,	Inflammatory Activity of Green Tea	Zoology	376
	K. Baskaran	And Black Tea Leaves Extract		

National Level Workshop

"Bioprospecting and techniques in Aromatic Plants Research"

❖ Centre for Bioscience and Nanoscience Research and Salim Ali Centre for Ornithology and Natural History South India Centre of Wild life institute of India jointly organized two days Workshop on 'Bioprospecting and techniques in Aromatic Plants Research- 21 and 22 November 2024. Totally 26 members participated from the state of Kerala, Karnataka, Andhra pradesh and Tamilnadu which includes, UG, PG, Research scholars and faculty members. On line workshop manual was published and release in BGR publication with ISSN number.





Internship – Hands on Training

Centre for Bioscience and Nanoscience Research conducted 15 days Internship for 20 students, on Basic Microbial Techniques and Fermentation Technology for the Karpagam Academy of Higher Education, Eachanari Coimbatore, TamilNadu.



Project

Around 58 M.Sc /B.Tech/B.Pharm students were underwent their Main project in our Research Institute

Sriramakrishna College of Arts and Science | Sari Padmavati University, Andhra University, Visakapatnam |MG University, Kerala | Nehru College of Arts and Science, Coimbatore |Avinashilingam Deemed University, Coimbatore |Sri Padmavati Mahila Visvavidyalayam, Andhra Pradesh | PSG college of Arts and Science, Coimbatore |Sam Higginbottom University of Agriculture, Technology and Sciences, Uttar Pradesh | PSGR krishnammal College for Women, Coimbatore | LRG Government Arts College for Women, Tirupoor | Royal institute of Science and Technology, University of Calicut, Kerala | RVS College of Arts and Science, Coimbatore | Kongu Engineering College, Coimbatore | Karpagam Academy of Higher Education, Coimbatore | Sri Krishna College of Technology, Coimbatore | Arunai medical college, Tiruvannamalai | Bharathiar University, Coimbatore | Hindustan Institute of Technology, Coimbatore | Bonseour's College for women, Thanjavur | Kalaignar



Karunanidhi Institute of Technology, Coimbatore | Sri GVG Visalakshi College for Women, Udumalpet | SAN International College Arts and Science, Coimbatore | Sri Neelekanta Government Sanskrit College, Pattambi, kerala | Dhanalakshmi Srinivasan Institute of Research and Technology, Perambalur, Tamil Nadu | Markaz College of Arts and Science, Kerala | Muthiammal Engineering College, Rasipuram | Abirami College of Pharmacy, Coimbatore VSB Enginnering College, Karur | Holy Cross College, Trichy | Vellalar College of Engineering and Technology, Erode | Gandhigrama Rural Institute, Dindigul | Cheran College of Pharmacy, Coimbatore | Government Arts and Science College, Coimbatore | Government Victoria college, Palakkad, Kerala | Sir Syed Institute for Technical Studies, Kerala | KS Rangasamy College of arts and science, Thiruchengodu | D. Y. Patil Agriculture and Technical University, Talsande

Invited Talk

Centre for Bioscience and Nanoscience Research, conducted a n Invited Talk on Awareness on Lifestyle and chronic Diseases. The sessions was held on 06 July 2024 and **Dr. Jubin Jacob., MBBS, MD** was acted as resource person and more than 20 members were attended.



Workshop Conducted at CBNR Campus / Jointly Organized Programmes

❖ Centre for Bioscience and Nanoscience Research and Department of Zoology, Sri GVG College, Udumalpet Jointly organized two days workshop on Techniques in Biomolecular analysis - 22.02.2024 to 23.02.2024, 40 students and 5 teaching and non teaching staffs were attended.



❖ Department of Biochemistry, Institutions Innovation Council, RVS College of Arts and Science, Sulur, Coimbatore, TamilNadu and Centre for Bioscience and Nanoscience Research Jointly organized hands on training in Application of enzymes in Industry on 24 July 2024 at Centre for Bioscience and Nanoscience Research, Coimbatore-21, Tamilnadu. Dr. R. Ragunathan was the resource person and 28 students were attended the programme.



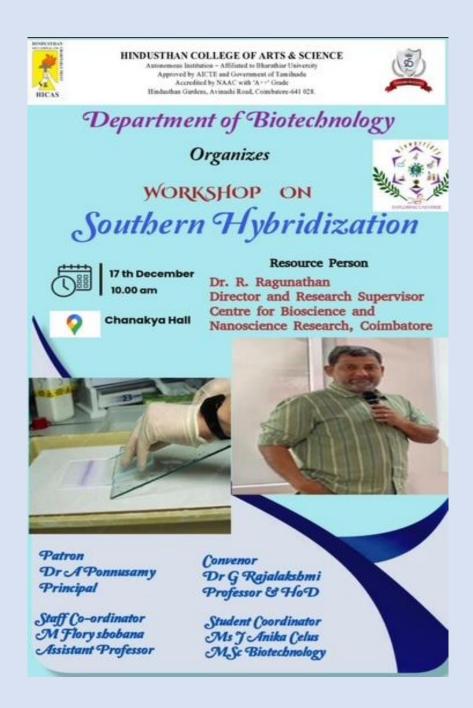
❖ Dr. R. Ragunathan, Director and Research supervisor, Centre for Bioscience and Nanoscience Research, was acted as a Resource Person for the workshop on "Citric acid production: Upstream and Down stream Processing", Department of Biotechnology, Hindustan College of Arts and Science, Coimbatore on 23.08.2024. Ms. Abirami, Vishnupriya and Mriduna Manoharan was also accompanied for the same and 45 students and two faculty members benefited.



❖ Department of Microbiology, Hindustan College of Arts and Science, Coimbatore, organised Two days Hands on Training workshop on Chromatographic Techniques on 4th and 5th October 2024 at Centre for Bioscience and Nanoscience Research, Coimbatore, TamilNadu, totally 50 members were attended the workshop.



❖ Dr. R. Ragunathan, Director and Research supervisor, Centre for Bioscience and Nanoscience Research, was acted as a Resource Person for the workshop titled "Southern Hybridization", Department of Biotechnology, Hindustan College of Arts and Science, Coimbatore on 23.08.2024. Dr. Jesteena Johney, Ms. Abirami, Vishnupriya and Mriduna Manoharan was also accompanied for the same.



Staff activities

Resource person

Dr. R. Ragunathan acted as **Resource person** for the **National Seminar** on NanoGenPro Triad: Exploring the future science, organized by Department of Microbiology and Biochemistry, St. Berchmans College, Changanassery, Kerala on 10th January 2024.



Student Induction Programme

* Dr. R. Ragunathan, Director and Research supervisor was handled a session for Student Induction Programme, Department of Biotechnology, Microbiology, and Food Processing Technology and Management, Hindustan College of Arts and Science, Coimbatore on 05.07.2024.



HINDUSTHAN COLLEGE OF ARTS & SCIENCE

Autonomous Institution - Affiliated to Bharathiar University Approved by AICTE and Government of Tamilnadu Accredited by NAAC with 'A++' Grade Hindusthan Gardens, Avinashi Road, Coimbatore-641 028



DEPARTMENT OF BIOTECHNOLOGY, MICROBIOLOGY AND FOOD PROCESSING TECHNOLOGY AND MANAGEMENT

Cordially invites you for

STUDENT INDUCTION PROGRAM

Date: 05/07/2024



Dr.R. RAGUNATHAN Director Center for Bioscience and Nanosciecne Research Coimbatore

Coordinators



Mr.R. RAVEENDRAN Secretary RAAC Residents Awareness Association of Coimbatore



Dr.C.A.KALPANA Deputy Dean, School of Home Science and Professor, **Food Science and Nutrition Avinashilingam University** Coimbatore

Venue: Ashoka Hall Time: 10 am to 3 pm

Convenors Dr.N. Vanitha, Dept of Microbiology Dr.Lali Growther, Prof & Head, Dept of Microbiology Mrs.Janaranjani.D, Dept of Biotechnology Dr.G.Rajalakshmi, Prof & Head, Dept of Biotechnology Ms. Kalamani. R, Dept of FPTM Dr.MC.Anitha, Coordinator, Dept of FPTM

Patron Dr.A.Ponnusamy Principal

Webinar

❖ Dr. R. Ragunathan, Director and Research supervisor was the **speaker** for the webinar of the **Importance of Probiotic in Health Care** on 19 September 2024 by GBR Foundation.



MOU Signed

❖ Department of Biochemistry, Institutions Innovation Council, RVS College of Arts and Science, Sulur, Coimbatore, TamilNadu and Centre for Bioscience and Nanoscience Research was signed MOU on 24July 2024 for the period of three years, MOU was signed with the presence of 25 students And two faculty members.



❖ Golden Jubilee Biotech Park for Women Society, Chennai, TamilNadu and Centre for Bioscience and Nanoscience Research has signed MOU on 20 December 2024 and discussed about new product development and industrial needs. Dr. R. Ragunathan, Mrs. R. Nagarathinam, Dr. Jesteena Johney from Centre for Bioscience and Nanoscience Research and Dr. D. Sudhakaran Ph.D., General Manager, Ms. C. Priyadarshini Technical Manager – Scientific, Ms. V. Priyadharshini Technical Associate from Golden Jubilee Biotech Park for Women Society were present, this will be effective for the period of three years.



Visit / Discussion

❖ Sri Venkateswara University, Tirupati, Andhra Pradesh Visited Centre for Bioscience and Nanoscience Research on 29.01.2024 for the discussion of MSME programme, 15 students and two faculties were attended.



Visitors

• Mr. S. SatheeshKumar

Department of Biotechnology,

Karpagam Academy of Higher Education, Coimbatore, TamilNadu

• Dr. G. Rajalakshmi

Head, Department of Biotechnology,

Hindustan college of arts and science, Coimbatore, TamilNadu

Infra structure

New lab inauguration successfully inaugurated a new research room for Food technology works at Centre for Bioscience and Nanoscience Research on 30 August 2024. This state -of -the -art facility is designed to foster innovation research and knowledge sharing among our researchers, students and industry partners. The new lab is a significant addition to our research institute infrastructure, providing a dedicated space for researchers and students to conduct experiments, to analyze data and to develop new ideas.



Celebrations at CBNR

Republic day

75th Republic Day was celebrated on 26th January 2024 at CBNR campus.



Independence Day Celebration

To mark the 78th Independence Day Celebrations of India's freedom, The National Flag was hoisted by the director Dr. Ragunathan along with Chairman Mrs. R. Nagarathinam, staffs and other dignitaries and students.



Saraswathi Pooja Celebration

Saraswathi Pooja has been celebrated in the presence of chairman, director and other staff members on 11th October 2024.



Onam Celebration

Onam, the harvest festival was celebrated with great enthusiasm and fervor at Centre for Bioscience and Nanoscience Research on 14 September 2024. The celebration was began with a traditional pookkalam and the courtyard was transformed into a vibrant and colorful space filled with the sweet fragrance of flowers followed by served Kerala Sadya and Payasam to all.



Annual Report Preparation and Editing

Director

Prof. Dr. R. Ragunathan., Ph.D., FSAB., Centre for Bioscience and Nanoscience Research Coimbatore, TamilNadu

 Head of the Departments - Food science and Nutrition Dr. Jesteena Johney., Ph.D.,
 Centre for Bioscience and Nanoscience Research
 Coimbatore, Tamil Nadu

Microbiologist

Ms. Abirami V, M.Sc., Centre for Bioscience and Nanoscience Research, Coimbatore, Tamil Nadu

Biotechnologist

Ms. Vishnu Priya R, M.Sc., Centre for Bioscience and Nanoscience Research, Coimbatore, Tamil Nadu

• Ph.D Research Scholar

Linima V.K Department of Biotechnology Centre for Bioscience and Nanoscience Research, Coimbatore, Tamil Nadu

