



ANNUAL REPORT 2025



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, TamilNadu, India

Annual Report – 2025

About CBNR

The Centre for Bioscience and Nanoscience Research (CBNR) was established in 2010 under the Visalakshi Educational Trust, Coimbatore, with the objective of creating a collaborative platform for biologists and life science researchers to share knowledge and foster mutual academic growth. CBNR is committed to providing high-quality research infrastructure and training across diverse domains of the life sciences.

CBNR is ISO 9001:2015 certified for its infrastructure and facilities and is affiliated with Bharathiar University, and offer offers full-time and part-time M.Phil. and Ph.D. programs in Microbiology and Biotechnology. It is also recognized by the Department of Scientific and Industrial Research (DSIR) and approved as a Scientific and Industrial Research Organisation (SIRO).

The institute is equipped with well-furnished laboratories and state-of-the-art automated instruments, enabling advanced research under the guidance of eminent national and international scientists. The major research thrust areas at CBNR include bio prospecting of polymer-based Nanoscience, food Nano biotechnology, industrial Nanoscience, and agricultural and medical microbiology.

CBNR currently comprises two full-time research supervisors, six faculty members, eight Ph.D. scholars, and a technical assistant. With a strong commitment to academic excellence, CBNR adopts a unique and student-centric approach to training by offering innovative and customized programs tailored to the specific needs of learners from diverse academic backgrounds. These include

students and researchers from Biological Sciences, B.Tech.,M.Tech., B.Sc., M.Sc., B.Pharm., M.Pharm., M.Phil., Ph.D and other life science disciplines.

CBNR is entering its 15th year of distinguished contributions to research and development in the field 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
- ✚ IIC Registration (**IC202543181**)
- ✚ AISHE code – Ministry of Higher Education (C-73711-2024)

Highlights of CBNR

- ✦ More than 236 gene sequences submitted to NCBI
- ✦ More than 136 papers published in National and International Journals
- ✦ 71 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
- ✦ Conducted 33 workshops & 5 Faculty Development programme
- ✦ Conducted 6 National Conferences for the benefits of the life science stream
- ✦ 17MoU with leading colleges / Industry support for the placement

Facilities

Being an Research Institute committed to do more Research works it was decided to have separate Research Lab for Microbiology, Biotechnology, Nanotechnology, Molecular biology, 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

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

Highlights of 2025

- ✚ **Recognized by DSIR – SIRO from June 2024**
- ✚ **21 Research Article Paper published in Scopus / Web of Science / UGC approved Journals**
- ✚ **22NCBI gene sequence submitted**
- ✚ **Conducted 1 national level FDP**
- ✚ **Signed New 4 MOU with different College/ Institutions**
- ✚ **Trained more than 560Students from Various colleges including Internship, Workshop, Projects.**
- ✚ **80 Students did their main project in different topic**
- ✚ **10 Workshop was conducted for different college students**
- ✚ **Patent awarded/ Granted / Published- 2**
- ✚ **14 Research Abstract were published in various conference and seminars**

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 has 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.

Management and the CBNR team

- **Chairman**

Mrs. R. Nagarathinam

**Centre for Bioscience and Nanoscience Research
Coimbatore, TamilNadu**

- ❖ **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. Rangunathan., Ph.D., FSAB.,
Centre for Bioscience and Nanoscience Research
Coimbatore- 21, TamilNadu

❖ **Head of the Departments - Food science and Nutrition**

Dr. Josteena Johney., Ph.D.,
Centre for Bioscience and Nanoscience Research
Coimbatore - 21, TamilNadu

❖ **Microbiology**

Dr. K. Thangamariappan., Ph.D.,
Centre for Bioscience and Nanoscience Research,
Coimbatore -21, TamilNadu

❖ **Microbiologist**

Ms. Abirami V, M.Sc.,
Centre for Bioscience and Nanoscience Research,
Coimbatore- 21, TamilNadu

❖ **Biotechnologist**

Ms. Nihala K, M.Sc.,
Centre for Bioscience and Nanoscience Research
Coimbatore -21, TamilNadu

❖ **Industrial Expert**

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

❖ **Chief Executive advisory**

Prof. Natarajaseenivasan Kalimuthusamy, Ph.D
Department of Neuroscience , Rowan-Virtua School of Osteopathic Medicine
B206 Science Center, 2 Medical Center Drive
Stratford 08084-1500.

❖ Visiting Scientist

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

❖ Scientific Advisory Committee

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

Research Activities

Research advisory committee meeting

Research Advisory Board Meeting on 26th August 2025 (Tuesday) at 11:00 AM

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. Josteena Johney**

Head of the Department - 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**

Viva –Voce and Ph.D award

The **Ph.D. Viva-Voce** is the final stage of the doctoral journey, where the scholar presents and defends their research work before an expert panel. It serves as an opportunity to demonstrate deep understanding of the research topic, originality of the work, and its contribution to the field of Biotechnology. The evaluation committee which includes external and internal examiners, assess the quality, methodology, and significance of the research findings.

Upon successful completion of the viva-voce and fulfillment of all requirements, the scholar is awarded the **Doctor of Philosophy (Ph.D)** degree. This prestigious recognition marks a significant milestone in the scholar's academic and research career, reflecting their dedication, innovation and contribution to scientific advancement in the field of **Biotechnology**. The scholars who awarded for Ph.D is given below;

- **Brinda C.M** submitted thesis on the topic of “**Production, Characterization, and Potential Applications of Biosurfactant produced by *Bacillus sp*(MN243657), *Bacillus amyloliquefaciens*(MN243658),and *Bacillus thuringiensis*(MN243656) – A Comparative Study**”, under the guidance of **Prof. Dr. R. Raganathan** from the Department of **Biotechnology**.

- Geethu Suresh submitted thesis on the topic of “*Biopulping of Tender fiber using Trametes versicolor (OL636386) and Pleurotus pulmonarius for Handmade paper production and Transcriptome analysis to Elucidate the Mechanism of Delignification*”, under the guidance of Prof. Dr. R. Raguathan from the Department of Biotechnology.



Congratulations, Brindha for the successful completion of Ph.D viva voice, Dept of Biotechnology, CBNR - Guided By Prof. Dr. R. Raguathan



Congratulations Geethu Suresh on passing your Thesis Defense! 🎉 Under the expert supervision of Prof. Dr. R. Raguathan sir, ten scholars have successfully earned their Doctor of Philosophy degrees, marking a milestone in the history of our Centre for Bioscience and Nanoscience Research ❤️



Research Article Published in National and International Journal (2025)

Sl.No	Title	Authors	Journal	Indexing	DOI/ISSN number	Volume, issue and page Number
1.	Biofabrication of iron and silver nanoparticles using <i>Desmodiumtriflorum</i> and their antimicrobial activity- <i>In vitro</i>	V.K. Linima, R. Rangunathan, Jesteena Johney	Pharmacological Research - Natural Products	Elsevier	https://doi.org/10.1016/j.prenap.2025.100204	(2025) 100230
2.	Isolation of Multidrug Resistant Enteric Pathogen from Poultry Fecal Matter and Application of Natural Extract Against the Bacteria	Aparna M, Revathy K. V, R. Rangunathan and Jesteena Johney	International Journal of Pharmaceutical Science Invention	Google scholar and Research gate	DOI: 10.35629/6718-14020919	14 (2) P. 09-19
3.	Isolation of Probiotic Bacteria from Rice, Molecular Identification and Preparation of Probiotic Based Rice Milk -Shelf Life and Nutritional Analysis	Archana A., Jeen Abraham, R. Rangunathan, Jesteena Johney	International Journal of Pharmaceutical Science Invention	Google scholar and Research gate	DOI: 10.35629/6718-14044354	14 (4) P. 43-54
4.	Extraction of Essential oil from Citrus Limon and <i>Citrus Limetta</i> : Characterisation and Antioxidant Activity	M. Asinruth, R. Renuka, R. Rangunathan and Jesteena Johney	World Journal of Pharmaceutical Research	Google scholar and Research gate	DOI: 10.20959/wjpr20257-36071	14 (7) p.1087-1103
5.	Assessment of Antimicrobial and Cytotoxicity Effect of GABA extracted from <i>Lactiplantibacillusplantarum</i>	Gopalakrishnan Rajesh, Ramachandran Rangunathan and Jesteena Johney	Biosciences Biotechnology Research Asia	Web of science	http://dx.doi.org/10.13005/bbra/3395	22(2), p. 699-710
6.	Development Of	Akshaya A.,	International	UGC	DOI:	3 (5) p.

	<i>BidensPilosa</i> Extract Based Emulsion Using Carbopol 950 For Its Anti-Oxidant, Anti-Diabetic, Anti-Microbial and Anti-Cancer Studies	Jones Felix C. K., Prabhahar B., Kumaravel S., Ramesh M., Jesteena Johney, Rangunathan R. Murugesan G. S.	nal Journal of Pharmaceutical Sciences	approved	10.5281/zenodo.15340909	704-714
7.	Bioactive Profiling of <i>Kaempferiagalanga</i> Rhizome Extract: An In Vitro Study of its Antibacterial, Anticancer and Apoptotic Activity	Jubin Jacob, R. Rangunathan and Jesteena Johney	Journal of Natural Remedies	Web of science	https://10.18311/jnr/2025/46250	5(3) p 629-637
8.	A comprhensive systematic Review of <i>Tridazprocumbens. L</i> on wound healing and its Pharmacological aspects	Vimala Devi S a, Lakshmi Prabha, R. Rangunathan and Jesteena Johney	South Asian Journal of Research in Microbiology	Google scholar and Research gate	https://doi.org/10.9734/sajrm/2025/v19i6439	19 (6) P 22-31
9.	Fabrication and characterization of silver nanoparticle produced by the supernatant of <i>Lactobacillus gasseri</i> and evaluation of their potential Biomedical activity	Nihala K, Maneesha Mohan, Seena P, Jesteena Johney and R. Rangunathan	South Asian Journal of Research in Microbiology	Google scholar and Research gate	https://doi.org/10.9734/sajrm/2025/v19i8459	19 (8) P.39-49
10.	Extraction of Rutin From <i>PhysalisPeruviana</i> Plant Extract, Its Phytochemical, Antioxidant, Antidiabetic And Time Kill Assay	N. Nivedha, Chandra Prabha, R. Rangunathan and Jesteena Johney	World Journal of Pharmaceutical Research	Google scholar and Research gate	DOI: 10.20959/wjpr20257-36072	14 (7) P. 1104-1118
11.	Patterns of bacterial isolation, identification and antibiotic susceptibility associated with infected	NilaRajan, K. ThangaMariappan, R. Rangunathan	South Asian Journal of	Google scholar and Research	https://doi.org/10.9734/sajrm/20	19 (6) P. 32-45

	wounds: A prospective study	and Jesteena Johney	Research in Microbiology	gate	25/v19i6 440	
12.	In Vitro Evaluation of Antimicrobial, Anti-Inflammatory And Cytotoxic Property Against HEPG2 Cell Line of Essential Oil Extracted From <i>ThymusVulgaris</i> Leaves	KaviranjanaKathirvel, SasidharanSatheesh Kumar, KarthiyayeniRamasubramani, Arathy Rajesh, Ramachandra Ragunathan	Journal of Microbiology, Biotechnology, and Food Science	Web of science, Scopus indexed	https://doi.org/10.55251/jmbs.11404	14 (4) e11404
13.	Harnessing Lichen-Derived Silver Nanoparticles: A Multi-Targeted Approach Against Diabetes, Inflammation and Bacteria	Santhiya R, P. Chitra, R. Ragunathan and Jesteena Johney	World Journal of Pharmaceutical Research	Google scholar and Research gate	DOI: 10.20959/wjpr20257-36076	14 (7) P. 1134-1148
14.	A Comprehensive Assessment and Therapeutic Potential Evaluation of Ethanolic Extract Derived from <i>Origanumvulgare</i> Leaves	B. Senthil Kumar, SasidharanSatheesh Kumar, Ramachandra Ragunathan, KarthikeyanSangapillai, and Sabari Rani Ganesh Moorthy	Asian Journal of Chemistry	Scopus indexed	https://doi.org/10.14233/ajchem.2025.33436	37 (5) P. 1032-1038
15.	Antioxidant and antimicrobial properties of TiO ₂ -ZnO Bimetal nanoparticle synthesized using <i>Leucasaspera</i> L. flower extract	S Seema, D Nivethini, R Ragunathan and Jesteena Johney	South Asian Journal of Research in Microbiology	Google scholar and Research gate	DOI: https://doi.org/10.9734/ajrm/2025/v19i4429	19 (4) P. 33-44
16.	Isolation of Histamine producing bacteria (<i>E.coli</i>) from Tiger prawns (<i>Penaeusmondon</i>) and its control measures using plant extracts	Christina Shalom, Chandra Prabha, R Ragunathan and Jesteena Johney	Asian Journal of Research in Biochemistry	Google scholar and Research gate	DOI: https://doi.org/10.734/ajrb/2025/v15i2374	15 (2) P. 136-151

17.	Extraction of Chitosan From Crab Shell, Synthesis of PVA Based Gel And Its Antimicrobial Studies	A. Sajina, P. Chitra, R. Ragunathan and JESTEENA JOHNEY	World Journal of Pharmaceutical Research	Google scholar and Research gate	DOI: 10.20959/wjpr20257-36073	14 (7) P. 1119-1133
18.	Production and characterization of surfactant produced by bacillus subtilis and its Antimicrobial study	Meenakshi. J, R.Renuka, R.Ragunathan and JESTEENA JOHNEY	Asian Journal of Research in Biochemistry	Google scholar and Research gate	DOI: https://doi.org/10.9734/ajrb/2025/v15i2373	15 (2) P. 124-135
19.	Extraction of Polysaccharide Hydrolysate From <i>BacillusSubtilis</i> It's Antioxidant Antibacterial and DNA Damage Studies	S. Swetha A. Dhinek, R. Ragunathan, Abirami V. and JESTEENA JOHNEY	World Journal of Pharmacy and Pharmaceutical Sciences	Google scholar and Research gate	DOI: 10.20959/wjpps20254-29559	14 (4) P. 1223-1237
20.	Biogenic synthesis of Silver nanoparticles using Secondary metabolites of <i>Lactiplantibacillusplantarum</i> and its potential applications	JeyalakshmiThanuja K, R. Vaishnavi, R. Ragunathan, JESTEENA JOHNEY	Journal of Drug Delivery & Therapeutics	Google scholar and Research gate	DOI: http://dx.doi.org/10.22270/jddt.v15i9.7334	15(9), P. 49-54
21.	Production and Applications of Secondary Metabolites Extracted from <i>Trichodermaviride</i>	Vaishnavi R, JeyalakshmiThanuja K, R. Ragunathan and JESTEENA JOHNEY	South Asian Journal of Research in Microbiology	Google scholar and Research gate	DOI: https://doi.org/10.9734/sajrm/2025/v19i9460	19 (9), P. 1-9
22.	Green Synthesis and Bioactive Potential of Silver Nanoparticles: Antimicrobial and Anticancer Evaluation	Nandhitha Shri Manibalan, R. Ragunathan and JESTEENA JOHNEY	Journal of Drug Delivery & Therapeutics	Google scholar and Research gate	http://dx.doi.org/10.22270/jddt.v15i10.7402	15(10):33-41

Faculty Development Programme

5th Faculty Development Programme was conducted at CBNR on the topic of “Revolutionizing Life Sciences: Emerging Frontiers in Biological and Food Science Research”. Which was held at CBNR seminar hall from 14th - 18th May 2025. Totally 21 faculty members were participated from all over India. **Professor Dr. K.Srinivasan**, Professor and Head Dept of Physics, Dean Incharge Bharathiar university, Coimbatore, followed by six Resource Persons were shared their views and the programme was completed with practical session in each day.

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5th Faculty Development Programme
Five-Day Academic Enrichment Programme
on

“Revolutionizing Life Sciences: Emerging Frontiers in Biological and Food Science Research”

14-05-2025 10:30a.m. Ramachandran Seminar Hall (CBNR)

Registration: 9.00 Am to 10.00 AM

Chief Guest & Key Note Address

Dr. K. SRINIVASAN, Ph.D., FASCh., FRSC
Professor and Head, Dept. of Physics,
Additional Charge: Dean (i/c), College
Development Council, Bharathiar University
Coimbatore – 46, Tamil Nadu

Welcome Address

Prof. Dr. R. RAGUNATHAN, Ph.D., FSAB
Director & Research Supervisor
Centre for Bioscience and Nanoscience Research,
Eachanari, Coimbatore – 21, Tamil Nadu

In the Presence of

R. NAGARATHINAM, M.A
Chairman and Trustee
Centre for Bioscience and Nanoscience Research
Coimbatore- 21, Tamil Nadu

**We Cordially Invite You to Attend the Inaugural Ceremony
@ CBNR**

Dr. JESTEENA JOHNEY (Chair Person)
Head of the Department (F&N), CBNR

Visalakshi Educational Trust
0422-2930408, 96293 88728 cbnrindia@gmail.com www.cbnrindia.com



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Organising a 5th Faculty Development Programme



“Revolutionizing Life Sciences: Emerging Frontiers in Biological and Food Science Research”

14th - 18th May 2025 CBNR

About CBNR

The Centre for Bioscience and Nanoscience Research (CBNR), established in 2010 by the Visalakshi Educational Trust, is affiliated with Bharathiar University for Ph.D. programmes in Microbiology and Biotechnology. Recognized by the Ministry of Science and Technology (DSIR-SIRO), ISO 9001:2015 certified, and registered with NGO Darpan and I-STEM. CBNR is committed to bridging the gap between academia and industry through impactful research and innovation.

About FDP

This programme aims to equip the faculty members with cutting-edge advancements in biological and food science research, fostering interdisciplinary learning and innovation.

Eligibility

The Faculty Members(Life science/Food Science/ Pharmacy/Para medical) of the Universities and Colleges are -eligible to participate in the Programme.

- Selection will be done based on a first come first serve basis to a maximum number of 40.
- After successful completion of the FDP, Certificate will be provided to the participants.

Registration Fee

2,800.00 (Inclusive of working lunch industrial visit and practicals)
- Fees can be paid through G Pay Phone number : 9629388728

Registration Link :
<https://forms.gle/MN6QmCGgSiRAWX2S8>

Last Date of Registration and payment:
10/05/2025 - 5.00 Pm



9629388728 \ 9629236319



cbnrofficial@gmail.com

National conference

6th National Conference on “**Frontiers in Combating Antibiotic Resistance Exploring Microbial Bioactives and Nanoparticles (FCAR:EMBN)**” was conducted at CBNR – Ramachandran seminar hall on 26 and 27 September 2025. Chief guest and the Key note address of the conference was **Dr. Vinaya K K**, Head of operations and R & D, Well Genome Biotechnology Pvt. Ltd., Cochin, Kerala, India.

Totally **72 participants** were attended this two day conference, including 12 participants from outside Coimbatore. Around **40 research abstracts** were received and published online by **Dr.BGR publication with the ISBN number** of 978-81-993168-8-1. Among these, five best papers were awarded to participants from the UG, PG and Ph.D categories.



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6th NATIONAL CONFERENCE ON “Frontiers in Combating Antibiotic Resistance Exploring Microbial Bioactives and Nanoparticles” (FCAR:EMBN)

ABOUT THE CONFERENCE

Antibiotic resistance is a type of antimicrobial resistance where bacteria change in a way that reduces the effectiveness of drugs designed to cure or prevent infections. These changes can occur naturally over time as bacteria evolve to survive, but human actions like overuse and misuse of antibiotics can speed up the process. Resistant bacteria can survive antibiotic treatment and multiply, passing on their resistance to other bacteria.

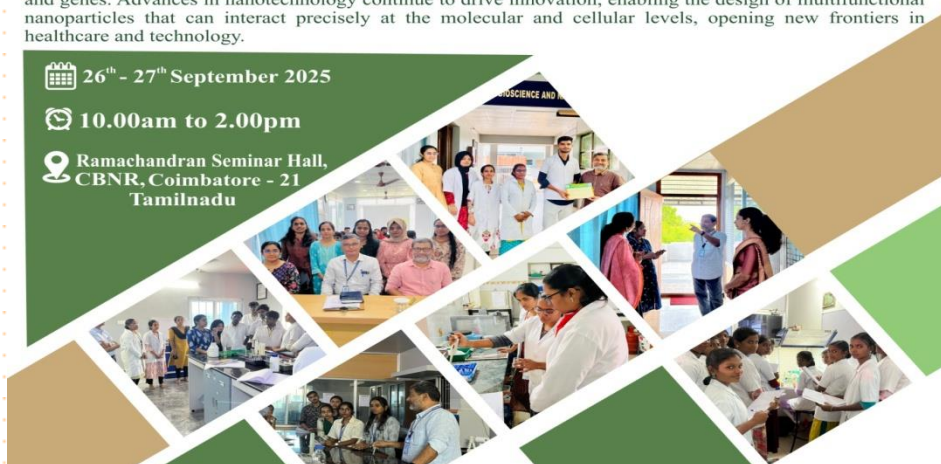
Microbial bioactives are naturally occurring compounds produced by microorganisms such as bacteria, fungi, and actinomycetes. These bioactive molecules play critical roles in microbial ecology, often serving as defense mechanisms or signalling agents. Importantly, many microbial bioactives exhibit potent biological activities, including antimicrobial, antiviral, anticancer and immunomodulatory effects.

Recently nanoparticles were used in biomedical applications, they are widely explored for drug delivery, diagnostics, and imaging, allowing for targeted therapy with improved efficacy and reduced side effects. Additionally, nanoparticles are used in antimicrobial coatings, cancer treatments, and as carriers for vaccines and genes. Advances in nanotechnology continue to drive innovation, enabling the design of multifunctional nanoparticles that can interact precisely at the molecular and cellular levels, opening new frontiers in healthcare and technology.

📅 26th - 27th September 2025

🕒 10.00am to 2.00pm

📍 Ramachandran Seminar Hall,
CBNR, Coimbatore - 21
Tamilnadu



THEME OF THE CONFERENCE

Antibiotic-resistant infections / Microbial resistance

Biopharmaceutics

Marine - based secondary metabolites

Probiotics / Bioactive compounds from microbes

Plant based drugs / Phytochemistry

Bionanotechnology/Bionanomedicine

Biotechnology-based Products

ABSTRACT

Abstract should be prepared by using MS word in Times New Roman (12 font size), 1.5 line spacing. Bold the name of the presenting author not more than that 400 word with E mail id.

AWARDS

The conference will Present Best Research Paper Award to one paper. Only the author who presents the paper will get a Presentation Certificate. All other registered participants will get a Participation Certificate.

Accommodation will be arranged on earlier intimation as per availability with nominal charges .

"THE OUTCOMES OF THE CONFERENCE WILL BE PUBLISHED IN PROCEEDINGS BEARING AN ISSN, WITH A SELECTION OF ABSTRACTS INCLUDED"

ELIGIBILITY

All life science students / Research Scholars / Faculty and Scientists

REGISTRATION FEE

₹ 800

Mode of payment :



9629388728

Last date of Registration and abstract submission:

20/09/2025

For Further Details Contact

✉ cbnrcindia@gmail.com



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+91 9629236319

CHIEF PATRON

Prof. Dr. R. Ragunathan

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

CONVENER

Dr. Jesteena Johney

Head of the Department
Centre for Bioscience and Nanoscience Research
Coimbatore, Tamil Nadu, India

ORGANISING SECRETARY

Dr. K. Thangamariyappan

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

CBNR ORGANISING MEMBERS

Abirami V

Nihala K

Aswathy P

Vishnu Priya R

Registration Link : <https://forms.gle/wQ63F9PKbtywJm1U6>

Note :

"Detailed information about invited talks and the conference programme schedule will be provided upon registration and abstract submission."

Sponsors

Visalakshi Educational Trust

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

Registration Link :



☎ 0422-2930408, 96293 88728

✉ cbnrcindia@gmail.com

🌐 www.cbnrindia.com



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6th NATIONAL CONFERENCE ON "Frontiers in Combating Antibiotic Resistance Exploring Microbial Bioactives and Nanoparticles" (FCAR:EMBN)

26th -27th September 2025, CBNR Campus
Cordially Invite you for the Conference

Presidential Address

Prof. Dr.R.Ragunathan

Director and Research Supervisor
CBNR

Resource Persons

Dr. Vinaya K K

Head of Operations and R&D at
WellGenome Biotechnology
Pvt. Ltd., Cochin, Kerala.

Topic:

From Nature to Clinic: Translating
Bioactive Compounds into Personalized
Therapeutic Solutions

Pavithra Chinnasamy, Ph. D.

Assistant Professor,
ADM College for Women, v
Nagapattinam, Tamilnadu

Topic:

Ethnobotanical Insights into
Combating Antibiotic Resistance:
Tribal Knowledge to Translational
Medicine

Prof. Dr. Rama Bhat P

Professor and Head of PG Biotechnology
Department at Alva's College,
Moodbidri, Mangalore

Topic:

Plant Based Bioactive Molecules
against MDR Pathogens

Prof. Dr.R.Ragunathan

Director and Research Supervisor
CBNR,
Coimbatore

Topic:

Probiotic Based Secondary
Compounds

Dr. R. Ram Narendran

Head of Department
Department of Molecular Biology
Orbito Asia Diagnostics, Coimbatore

Topic:

Antimicrobial Resistance,
Current Scenario and Diagnosis

Organizing Team

CHIEF PATRON

Prof. Dr.R.Ragunathan

Director and Research Supervisor
CBNR, Coimbatore

CONVENER

Dr. Josteena Johney

Head of the Department
CBNR, Coimbatore

ORGANISING SECRETARY

Dr. K. Thangamariyappan

Head of the Department
CBNR, Coimbatore

CBNR ORGANISING MEMBERS

**Ms. Abirami V, Ms. K Nihala
Ms. P Aswathy
Ms. Vishnu Priya R**

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We are pleased to announce our collaboration with Dr. BGR Publications as the Official Publishing Partner for this conference. Selected and peer-reviewed papers will be published in the Conference Proceedings with ISBN, ensuring wider academic visibility and global reach.

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Five - Days Online Crash Course

“Gut Microbiome –Holding the Key to Chronic Diseases”

Date: 27th October to 31st October 2025

Time: 5:00 PM - 6:00 PM (IST)

Mode: Online

Resource Persons



Dr. CHAYANIKA SARMA

Bromatologist and Clinical Nutritionist
MSK Superspeciality Clinic, Dibrugarh,
Assam 786001

Topic

Nutritional Role of Probiotics in Modulating
Gut Microbiota and Preventing Diseases



Prof. Dr. R.RAGUNATHAN

Director & Research Supervisor
Centre for Bioscience and Nanoscience
Research (CBNR)
Eachanari, Coimbatore – 21, Tamil Nadu

Topic

Gut Microbiome Diversity, Metagenomics,
impact on health, & brain axis.



Dr. JESTEENA JOHNEY

HOD, Food and Nutrition
Centre for Bioscience and Nanoscience
Research (CBNR)
Eachanari, Coimbatore – 21, Tamil Nadu

Topic

Types of gut microbiome it's diversity and
classification



Ms. V. ABIRAMI

Microbiologist
Centre for Bioscience and Nanoscience
Research (CBNR)
Eachanari, Coimbatore – 21, Tamil Nadu

Topic

Culturing different types of Probiotics,
secondary metabolites and its action.



Ms. NIHALA K

Research Assistant (Biochemistry)
Department of Biotechnology
Centre for Bioscience and Nanoscience
Research,
Eachanari, Coimbatore – 21, Tamil Nadu

Topic

Impact of Lactobacillus-on digestion,
immunity and metabolism

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CBNR Jointly organized programs

- ❖ Prof. Dr. R. Raguathan served as the Resource Person for a session organized by the Department of Biochemistry, Sri Ramakrishna College of Arts and science for women, Coimbatore, TamilNadu on February 28, 2025. The session titled **Bio Nanoscience Applications in food and Medicine**, focused on emerging role of nanotechnology in enhancing food quality, safety, and therapeutic innovations.

SRI RAMAKRISHNA
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INSTITUTION'S INNOVATION COUNCIL
(Ministry of IISD Initiative)

SNS

DEPARTMENT OF BIOCHEMISTRY
NATIONAL SCIENCE DAY

Session on
Bio Nanoscience applications in food and medicine


RESOURCE PERSON
Dr. R. Raguathan
Director and Research Supervisor
Centre for Bioscience and Nanoscience Research
Coimbatore

PENCIL SKETCHING COMPETITION
Topic: Say no to drug abuse

FEBRUARY 28, 2025 **12:15 PM** **SEMINAR HALL**


- ❖ Prof. Dr. R. Raguathan served as the resource person for a session organized by the Department of Biochemistry, PSG College of Arts and science, Coimbatore, TamilNadu on

25.03.2025. Title of the talk was **Unlocking the power of probiotics: A health essentials**, which focused on the significance of probiotics in promoting human health and well being.



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Coimbatore - 641014.




DEPARTMENT OF BIOCHEMISTRY (SF)

ORGANIZES A GUEST LECTURE ON

Unlocking the Power of Probiotics: A Health Essential

Resource Person

Dr R RAGUNATHAN
Director, Centre for Bioscience and
Nanoscience Research
Coimbatore





Faculty Co-ordinator


Dr.R.Sivaprasad
Associate Professor
Department of Biochemistry (SF)
PSG College of Arts & Science
Coimbatore-14

Head of the Department

Dr.S.Mohandass
Associate Professor & Head
Department of Biochemistry (SF)
PSG College of Arts & Science
Coimbatore-14


Date & Time
25.03.2025
02:00 PM


Venue
Sathyam Hall



❖ **Prof. Dr. R. Ragunathan** was the chief guest for **Roots to Riches: Cultivates Profit Organically-** conducted by Nehru Group of Institutions, Coimbatore , TamilNadu on

June 05, 2025. The program focused on promoting sustainable agricultural practice and highlighting the economic potential of organic farming.



The banner features a top header with logos for NEHRU GROUP OF INSTITUTIONS, DST NIDHI, and the DEPARTMENT OF SCIENCE & TECHNOLOGY. The main title 'Roots to Riches: Cultivate Profits Organically' is accompanied by a tree logo. A 'STARTUP CREW' badge indicates the event is held every Thursday at 6 PM. A central circular image shows Prof. Dr. R. R. Raguathan, Director & Research Supervisor at the Centre for Bioscience and Nanoscience Research. A 'REGISTER' button and a QR code are provided for sign-up. Social media icons for Facebook, Instagram, X, YouTube, and LinkedIn are listed on the left. Contact information includes a website URL, a calendar icon for June 05, 2025, and two phone numbers. The NGI TBI logo is at the bottom center.

NEHRU GROUP OF INSTITUTIONS
DST NIDHI
विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF SCIENCE & TECHNOLOGY

STARTUP
CREW
EVERY
THURSDAY-6 PM

Roots to Riches:
Cultivate Profits Organically

REGISTER

<https://tinyurl.com/ngitbistartupcrew>

June 05, 2025

+91 73977 64545
0422 6794 474


PROF. DR. R RAGUNATHAN
Director & Research Supervisor
Centre for Bioscience and Nanoscience
Research
Eachanari, Coimbatore-21

<https://ngitbi.com>

NGI TBI
INNOVATE! ACCELERATE! ELEVATE!

❖ Prof. Dr. R. Raguathan was the resource person for the workshop on “Column chromatography: core of Downstream Bioprocessing”, for the Department of Biotechnology in association with Centre for Bioscience and Nanoscience Research, Coimbatore, TamilNadu on 24.07.2025. During the session Dr. R. Raguathan and team (Dr. Josteena Johney,

Ms.Abhirami V provided comprehensive insights into principles, techniques and applications of column chromatography in processing, emphasizing its crucial role in the purification and recovery of biomolecules.

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Hindusthan Gardens, Avinashi Road, Coimbatore-641 028. 



**DEPARTMENT OF BIOTECHNOLOGY &
CENTRE FOR BIOSCIENCE AND
NANOSCIENCE RESEARCH**
Organises
WORKSHOP ON
**Column Chromatography: Core of
Downstream Bioprocessing**

RESOURCE PERSON
Prof.R.Raghuathan
Director
CBNR, Coimbatore Class : II M.Sc Biotechnology

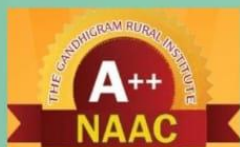
 **24.07.25**  **Venue:**
PG lab  **Time:**
10.30 AM

Patron **Convener** **Faculty Co-ordinator**
Dr. A. Ponnusamy **Dr. G.Rajalakshmi** **Dr. K. Kavithaa**
Principal **Prof & Head** **Assistant Professor**

Student Co-ordinator
Mahasivanantham S - II M.Sc BT

- ❖ **Centre for Bioscience and Nanoscience Research**, Coimbatore in association with The Gandhigram Rural Institute- DTBU Gandhigram, B.Voc Food Processing,Dindigul districtTamilNaduconducted**Food fest 2025**- celebrating world food day-2025 on 24.07.2025.

THE GANDHIGRAM RURAL INSTITUTE-DTBU GANDHIGRAM



DEEN DAYAL UPADHYAY KAUSHAL KENDRA



B.Voc. Food Processing

Jointly Organise with



Centre for Bioscience and Nanoscience Research
Coimbatore

FOOD FEST - 2K25

Celebration of World Food Day-2025



HAND IN HAND For Better Foods & Better Future



Date: 16.10.2025



Time: 10.00 am

Venue: DDU-KK Campus



- ❖ The Centre for Bioscience and Nanoscience Research, Coimbatore in association with PPG College of Pharmacy, Coimbatore, Tamil Nadu organized an Instrumentation Training programme on August 19, 2025. The training session was led by Prof. Dr. R. Raguathan and Dr. Josteena Johney, who provided hands-on demonstration and expert guide. The program also included practical on Nanoparticles synthesis and Molecular Microbiology techniques, offering valuable insights into modern methodologies and applications.





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 and
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**MoU Signing
&
Instrumentation Training**

Theme
**BIONANOTECHNOLOGY AND
BIOINSTRUMENTATION**

Sessions Include
**NANO PARTICLES SYNTHESIS
AND MOLECULAR MICROBIOLOGY**

 Tuesday August 19th 2025
  10.00am to 2.00pm
  CBNR Research Laboratory

Prof. Dr.R. Ragunathan
 Director - CBNR

Dr. Jesteena Johney
 Member and Coordinator

Organising Team
 All CBNR faculty
 (Dept. of Microbiology, Biochemistry, Biotechnology and Food and Nutrition.)

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- ❖ Centre for Bioscience and Nanoscience Research, Coimbatore in association with DevakiAmma Memorial College of Pharmacy, Celembra, Kerala, organized an workshop on August 2, 2025. The training session was led by Prof. Dr.R.Ragunathan and Dr. Jesteena Johney, who provided hands-on practical training on Nanoparticles synthesis, characterization and Applications in drug delivery and Biomedical research.


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INSTITUTION'S INNOVATION COUNCIL
 Ministry of Education, Government of India

Centre for Bioscience and Nanoscience Research (CBNR)
 Eachanari, Coimbatore, Tamil Nadu
 and

Devaki Amma Memorial College of Pharmacy
 Chelmbra, Malappuram, Kerala

Jointly Organizing
Memorandum of Understanding (MoU) Signing Ceremony
 A strategic academic partnership between CBNR and Devaki Amma Memorial College of Pharmacy to promote collaborative research, student training, and knowledge exchange.

&
Workshop
on
Bionanotechnology

Theme
 Exploring the Frontiers of Nanoscience in Modern Biology

Sessions Include
 Fundamentals of Nanoscience & Biotechnology
Hands-on Training
 Nanoparticle Synthesis & Characterization
 Applications in Drug Delivery & Biomedical Research
 Lab Visit & Research Orientation

Date: 02 Aug 2025	Venue : CBNR Research Laboratory	Time: 10:00 a.m. to 4:00 p.m.
----------------------	-------------------------------------	----------------------------------

Prof. Dr. R.Ragunathan
 Director - CBNR

Dr. Josteena Johney
 Member & Coordinator

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 461/3, Amman Nagar, L&T BY Pass Road, Eachanari,
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Memorandum of Understanding

The centre for Bioscience and Nanoscience Research (CBNR), Coimbatore, signed **Memorandum of Understanding (MoU)** with various reputed institutions to foster academic collaborations, research partnership, and knowledge exchange. The MoU aims to promote joint research projects, student internship, faculty development programs, and training in advanced scientific techniques. Through these collaborations, CBNR seeks to strengthen interdisciplinary learning and innovation in the fields of biosciences, nanosciences, biotechnology, food microbiology etc. the MOU signed college names are given below;

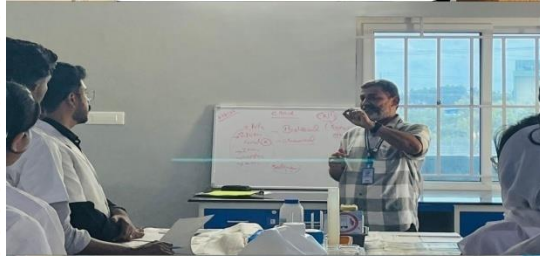
- Department of Post Graduate Studies and Research in Biotechnology, **Alva's College** (Autonomous), Moodbidri - 574 227, Karnataka, India
- Department of Zoology, **Sri GVG Visalakshi College for Women**, Udumalpet, TamilNadu.
- **DevakiAmma Memorial College of Pharmacy**, Celembra, Kerala
- **PPG College of Pharmacy**, Coimbatore, TamilNadu,



Devaki Amma Memorial College of Pharmacy



Dr. R. RAGUNATHAN, Ph.D., FRCM, DIRECTOR



Dr. R. RAGUNATHAN, Ph.D., FRCM, DIRECTOR



CENTRE FOR BIOSCIENCE AND NANOSCIENCE RESEARCH



MoU signing!

SRI GVG VISALAKSHI COLLEGE FOR WOMEN

Centre for Bioscience and Nanoscience Research

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 and

 NH 209 Sathy Road, Saravanampatti, Coimbatore -641035.

MoU Signing & Instrumentation Training

Theme

BIONANOTECHNOLOGY AND BIOINSTRUMENTATION

Sessions Include

NANO PARTICLES SYNTHESIS AND MOLECULAR MICROBIOLOGY

Tuesday August 19th 2025 | 10.00am to 2.00pm | CBNR Research Laboratory

Prof. Dr. R. Ragunathan Director - CBNR

Dr. Jesteena Johney Member and Coordinator

Organising Team

 All CBNR faculty

 (Dept. of Microbiology, Biochemistry, Biotechnology and Food and Nutrition.)

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MoU signing with Alvas college, Moodbidri

Celebrations at CBNR

❖ Independence Day (15/08/2025)

Independence Day celebration was marked by enthusiasm and respect. The programme started at 8:30 am by hoisting the national flag by the **Director Prof. Dr. R. Ragunathan**. Everyone paid their respect and saluted the National Flag and sang the National Anthem with great enthusiasm.





Flag hosting ceremony at CBNR 🇮🇳



❖ Republic Day

Independence day was celebrated with great pride and patriotism in our institution on 26 February, 2025. The celebration began with hoisting of the national flag by the **Director Prof. Dr. R. Rangunathan** followed by singing of the national anthem. The celebration reminded everyone of the values of justice, liberty, equality, and fraternity enshrined in our constitution. Sweets were distributed to all the attendees at the end of the event.



❖ National Science Day

National Science Day was celebrated at **Centre for Bioscience and Nanoscience Research**, Eachanari, Coimbatore, TamilNadu, India in collaboration with IIC council, organised on **05 March at 10:00 AM**.

The day began with a prayer, and the activities included a power-point presentation on Sir C.V. Raman, and a talk on the significance the days celebration by **Prof. Dr. R. Ragunathan**, Director and Research Supervisor, Centre for Bioscience and Nanoscience Research, Eachanari, Coimbatore, TamilNadu, India.

As part of celebrations the young scientists from UG, PG and Ph.D scholars from various collages and university were participated and shared their views in open discussion time. Through these engaging activities, students experienced the wonders of science and celebrated the spirit of discovery. Totally 25 students and 4 faculty members were attended.

The primary objective of these events was to inspire students to explore the wonders of science and nurture a spirit of discovery and innovation.

We are pleased to note that the events successfully sparked curiosity and enthusiasm among participants.





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INSTITUTION INNOVATION COUNCIL
CELEBRATES
NATIONAL SCIENCE DAY
DATE : 5/03/2025 | 10.00 AM TO 12.30PM
VENUE : CBNR RESEARCH LAB
ALL ARE INVITED
THEME : IMPORTANCE OF PROBIOTICS

Prof. Dr.R.Ragunathan
 Director

Dr. Jesteena Johnney
 HOD (F&N)

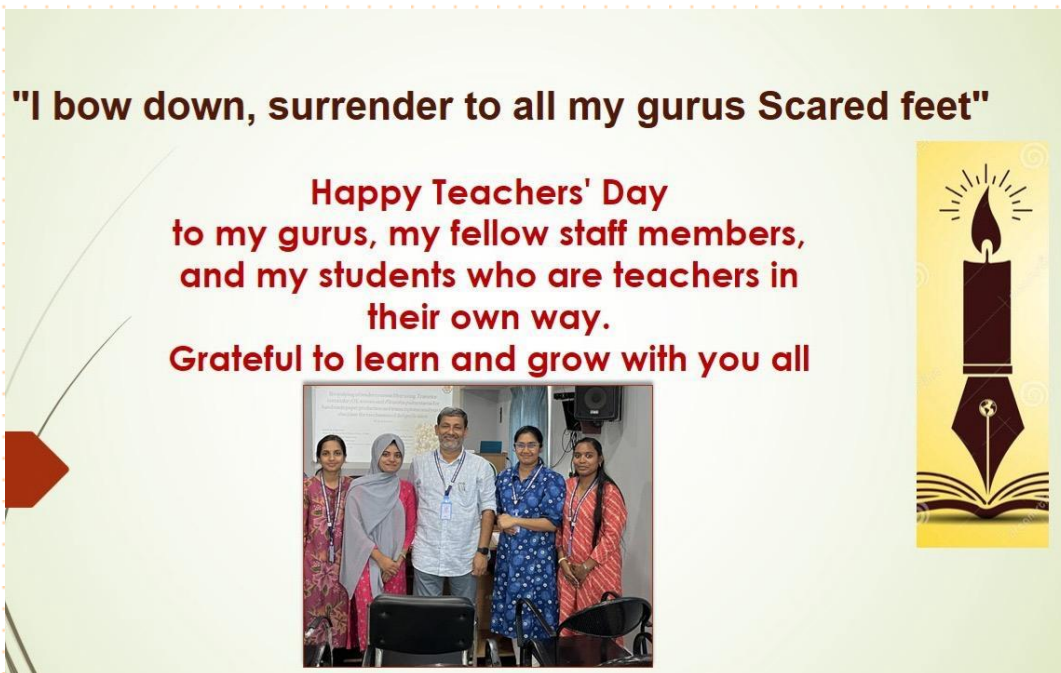
❖ Onam celebration

Onam was celebrated in our institute with great enthusiasam and joy on September 2, 2025. The venue was beautifully decorated with vibrant floral arrangements and traditional pookalam design. Students and staffs participated and the performance showcasing the rich heritage of Kerala. The highlight of the celebration was the sharing of the festive spirit through unity and togetherness. Onamsadhya were distributed to all the attendees, a grand, traditional vegetarian feast served on a banana leaf, makes the celebration a memorable and joyful occasion.



❖ Teachersday

Teachers day was celebrated with great respect and enthusiasm to honor the dedication and hard work of teachers. The event created a joyful atmosphere, reflecting the strong bond between teachers and students. It was a memorable day that acknowledged the invaluable role of teachers in shaping young minds, chairman distributed gifts and extended wishes to all the faculty members of CBNR.



❖ AyudhaPooja

Ayudhapooja was celebrated with great devotion and enthusiasm in our CBNR on October 1, 2025. The ceremony began with traditional rituals and prayers seeking blessings for knowledge, prosperity and success in all our endeavors. The event fostered a sense of unity, positivity, and cultural spirit among staffs and students.



Conference Proceedings Publications

ISBN: 978-81-993168-8-1 | Dr. BGR Publications

Special Issue: International Journal of Current Science

Research (IJCSR) e-ISSN: 2454-5422

Annual Report Preparation and Editing

Director

Prof. Dr. R. Rangunathan., 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



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