



**Centre for Bioscience and Nanoscience Research**  
Affiliated to Bharathiar University  
ISO 9001: 2015 CERTIFIED

Accredited by



# ANNUAL REPORT 2023



**Visalakshi Educational Trust**

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

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



## *Annual Report -2023*

**Centre for Bioscience and Nanoscience Research**

(Affiliated to Bharathiar University), ISO 9001:2015

461/ 3, Amman Nagar, Eachanari, Coimbatore—641 021,  
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[www.cbnrcindia.com](http://www.cbnrcindia.com)

# **Centre for Bioscience and Nanoscience Research**

**L and T Bye Pass Road,**

**461/ 3, Amman Nagar, Eachanari**

**Coimbatore—641 021**

**E-mail: [cbnrcindia@gmail.com](mailto:cbnrcindia@gmail.com)**

**Ph: 0422 2930408; +91 9629388728**

**Website- [www.cbnrindia.com](http://www.cbnrindia.com)**

## **Published by**

**Dr. R. Ragunathan., Ph.D., FSAB**

**Director and Research Supervisor**

## **Chief Editor**

**Dr. Jesteena Johney**

**Head of the Institute**

## **Editors and staffs**

**Dr. Thankamariappan- Scientist E**

**Ms. Abhirami V (Part Time)- Microbiologist**

**Ms. Vishnu Priya. R – Biotechnologist**

**M. Mridhuna Manoharan - Biotechnologist**

## **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.

CBNR has well-furnished laboratory with modern automated equipments to carry out research works under the effective guidance of many distinguished scientists in worldwide. Our key research area is Bio-prospecting of polymer products-based Nanoscience, Food Nano-biotech, Industrial Nanoscience and Agriculture and Medical Microbiology. The current strength of CBNR comprises of two regular research supervisors, 3 faculty members, eight PhD scholars, and a technical assistance. CBNR has taken a different route to embark upon quality training. We aim at delivering innovative and customized training for the special needs of students of Biological Sciences, B.Tech., M.Tech., B.Sc., M.Sc., B.Pharm., M.Pharm., M.Phil., Ph.D., PDF and all fields of life sciences.

### **Vision and Mission Statement**

**Our motto is**    *“Towards Excellence”*

CBNR is a Centre for higher learning in the life sciences, provides all areas of academic and industrial need through research and development at **affordable cost to the students**. We aimed to develop the skills that are necessary to the students and research scholars in the field of life sciences, enable them for the placements and affinity towards the subject.

### **Accreditations**

- Affiliated to Bharathiar University to conduct M. Phil. and Ph.D. in Microbiology and Biotechnology

- ISO 9001:2015 CERTIFIED
- MSME Approval
- BCIL Certification
- Applied for Food Safety Compliance System
- Approved by FSSAI
- NGO Darpan id was obtained

### **Highlights of CBNR**

- More than 100 gene sequences submitted to NCBI
- More than 100 papers published in National and International Journals
- Conducted 26 workshops & 4 Faculty Development programme
- **10 MoU with leading colleges / Industry support for the placement**
- 56 students got placement so far
- Acquiring latest Knowledge by hands-on training and research experience & exposure to the research field
- **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
- Completed one project on Edible fruit coating

### **Laboratory facilities**

We are equipped with the state of art facilities for pursuing research in the current thrust areas of Life sciences. We have separate labs for Microbiology, Animal cell culture, Bionanotechnology, Molecular biology and Bioprocess, with state of art laboratory facilities on par with RD centers.

### **Research Collaboration**

CBNR collaborates with a number of National academic institution and industry to achieve the Research goals. There are number of eminent scientists who are the mentors or collaborators in our research projects. We encourage any research which can help the general humankind and are open to collaborate with the individuals and agencies with similar aim.

## **Benefit to the Society**

Now a days there is a decline in number of students opting the bioscience courses due to lack of awareness and available of minimal number of technically skilled persons in the field. So we aimed to create awareness among undergraduate and post-graduate students in universities, colleges etc. on issues related to importance of Microbial biotechnology & its potential applications. The recent and continuing advances in life sciences clearly unfold a scenario energized and driven by the new tools of Microbial biotechnology. Microbial Biotechnology is a knowledge-driven technology, which needs to be driven by allow of new ideas and concepts in the development of new tools for research to generate 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
- 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.

## Annual Report 2023 (January to July 2023)

Total of more than 15 programmes were conducted in the year of 2023 at CBNR campus, more than 297 number of students, research scholars, teaching and non teaching staffs were attended and benefited. In detail, research review meeting, college committee meeting, one day training in molecularbiology technique, value added industrial programme on poultry microbiology and a Mphil viva-voce was conducted. Other details are given below,

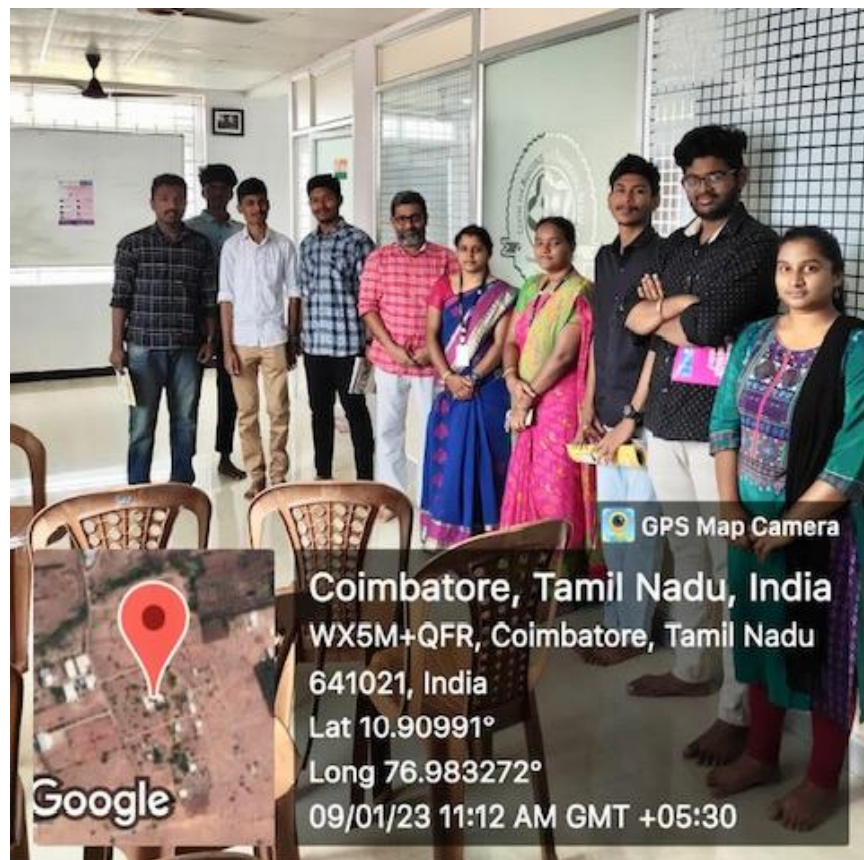
### *Important activities conducted in CBNR*

#### *Awarded for FSSAI Affiliation*

|  |   |   |
|--|---|---|
|   | <b>Form C</b><br><b>Government of Tamil Nadu</b><br><b>Department</b><br><b>(Food Safety Wing)</b><br><b>Food Safety and Standards Authority of India</b><br><b>License under FSS Act, 2006</b> |  |
| License Number: <b>12423003003046</b>  |   |   |
| 1. Name & Registered Office address of Licensee:   | CENTRE FOR BIOSCIENCE AND NANOSCIENCE<br>RFSFARCIH<br>461/3, AMMAN NAGAR, L&T BY PASS ROAD,<br>EACHANARI, Coimbatore, Tamil Nadu-641021   |   |
| 2. Address of Authorized Premises:   | 461/3, AMMAN NAGAR, L&T BY PASS ROAD,<br>EACHANARI, Madukkarai block , Coimbatore,<br>Tamil Nadu-641021   |   |
| 3. Kind of Business:   | Trade/Retail - Storage (Cold / Refrigerated)  |   |
| 4. Dairy Business Details:   | No  |   |
| 5. Category of License:  | <b>State License</b>  |   |
| <small>This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.</small> |   |   |
| Place: Coimbatore  | <b>Designated Officer</b>   |   |
| Issued On: 11-11-2023 (New License)  | Date :  | 11-11-2023 10:31:35   |
| Valid Upto: 10-11-2024 (For details, refer Annexure)   | User Id :   | 105288  |
|  | Verified through Mobile :   | 94XXXXXX79  |
|  | License Grant on :  | 10-11-2023 16:55:09   |
|  | License Issued On :   | 11-11-2023 10:31:35   |

### *Industrial training*

- Department of Biotechnology, Hindustan College of Arts and science, Coimbatore has come for industrial training on 09.01.2023. Dr.R.Ragunathan, V. Abirami has handled the session.





## ***Workshop on molecular biology technique***

- Conducted one day training in molecular biology technique on 26.01.2023 for the department of zoology students, Sri GVG college, Udumalpet.



## ***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. Senthilkumar, Associate professor, and Head, Department of biotechnology, Hindustan college of arts and science, Coimbatore.



### ***Memorandum of understanding***

- Centre for Bioscience and Nanoscience Research has signed MOU with Sree Abirami College of Pharmacy, Coimbatore A in order to improve the practical skills in the field of microbiology and pharmacy on 16.12.2022, MOU was signed with the presence of College Chaiman, Vice Principal and other management teams.



### ***College committee meeting***

- College committee meeting was conducted on 26.07.2023 at Johnas salk seminar hall, Dr.R. Srinivasan, Associate professor, and Head, Department of Physics, Bharathiar University, Coimbatore was the universittee nominee, other staffs of CBNR was also attended the meeting


### ***ValueAdded course- IndustrialProgramme - PoultryMicrobiology***

- This programme was conducted for the students who are interested to become an entrepreneur in the poultry field for the Department of Microbiology, Nehru Arts and Science College, Coimbatore. V Abirami, Dr.Jestena Johney, Dr.R.Ragunathan were handled the session (20-02-2023 to 28.02.2023).




### ***National Bioconclave***

- 5<sup>th</sup> national Bioconclave on on Bio Pharmaceutics for Sustainable Development-NBBS-23 was conducted in Dr.Johnas Salk seminar hall on 15.9.2022. more than 70 participants were attended the conference from all over India which includes BS.c, MS.c, Research scholars, teaching faculties and scientist. Behalf of CBNR all the faculties, management team and research scholars were actively participated the conference.



**Centre for Bioscience and Nanoscience Research**  
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Organizing

# 5<sup>th</sup> National Bio Conclave

ON

## "Bio Pharmaceutics for Sustainable Development"(NBBS-D- 23)

### National Conference

**NATIONAL CONFERENCE**

Date: 4<sup>th</sup> and 5<sup>th</sup> October, 2023  
 Time: 09:00 AM to 04:00 PM IST  
 Venue: Dr. Jagan Sankar Seminar Hall, Centre for Bioscience and Nanoscience Research, Annamalai Nagar, Echazharry, Coimbatore - 21 Tamil Nadu, India.

**Registration fees**


LUG and PG students - Rs. 800.00  
 Research Scholar - Rs. 1000.00  
 Industry person / Faculty - Rs. 1200.00  
 Best Paper Award Competition - Rs. 1000.00

Last date for Registration: 26, September, 2023

Registration Link: [https://docs.google.com/forms/d/1FAIpQLSdUOK4uYg6sHuzD-6eWJ7\\_YH9u1eAZZpNFFzpd7uH51q/viewform?usp=pp\\_url](https://docs.google.com/forms/d/1FAIpQLSdUOK4uYg6sHuzD-6eWJ7_YH9u1eAZZpNFFzpd7uH51q/viewform?usp=pp_url)

**Further Contacts:**

[cbnrcindia@gmail.com](mailto:cbnrcindia@gmail.com)  
 +91 9629388728  
 +91 9629236319

Registration Link: 


**Conference Details**

Participation: Participation is open to students, research scholars, academicians and faculties.

**Conference Highlights**


- Talks by International and National Scientists
- Oral presentations for participants
- Best Paper Award
- Certificate to all the participants

**Chief Guest & Keynote Speaker**




**Dr. K. Anbarasu**  
Professor and Head  
Department of Marine Microbiology  
Bharathiar University  
Thevaraipakkam, Tamil Nadu, India


**Invited Speakers**




**Dr. P. Agastham Sanyam Theodor**  
Visiting Professor  
Department of Plant Biotechnology and Microbiology  
Tatyasaheb Kore Institute of Technology  
Chennai, India



**Dr. S. Sujit**  
Professor and Head  
Department of Bio-Technology  
Bharathiar University  
Coimbatore, Tamil Nadu, India



**Dr. Senthil Kumar**  
Associate Professor  
Department of Cell and Tissue Biology  
Bharathiar University  
Coimbatore, Tamil Nadu, India



**Dr. S. Shanmugan**  
Associate Professor (Environmental Biotechnology)  
Research Centre for Solar Energy  
Anna University, West of Chennai  
Research Assistant & Associate Researcher  
(I.I.T Madras), Egmore, Anna Park, India

**CBNR Committee**

|  |  |   |   |
|--|--|---|---|
| <p><b>CHIEF PATRON</b><br/> <b>Dr. R. Raguathanan</b><br/> <small>Director, Research Supervisor</small><br/> <small>Centre for Bioscience and Nanoscience Research</small><br/> <small>Coimbatore, Tamil Nadu, India</small></p> | <p><b>CONVENER</b><br/> <b>Dr. Jeevitha Johny</b><br/> <small>Head of the Institution</small><br/> <small>Department of Microbiology</small><br/> <small>Coimbatore, Tamil Nadu, India</small></p> | <p><b>ORGANISING SECRETARY</b><br/> <b>Dr. K. Thangamarayanan</b><br/> <small>Assistant, Dept of Microbiology</small><br/> <small>Coimbatore, Tamil Nadu, India</small></p> | <p><b>CBNR ORGANISING MEMBERS</b><br/> <b>Abhirami V</b> - Microbiologist<br/> <b>Vishnu Priya, R</b> - Biotechnologist<br/> <b>M. Sriharsha Manoharan</b> - Microbiologist<br/> <small>Research Scholars of CBNR</small></p> |
|--|--|---|---|

**NOTE:** Only after confirmation of the payment, participants will be informed regarding further details of conference. The registered and paid delegates will be entitled for admission to all scientific sessions and will receive certificates.

Registration Link: [https://docs.google.com/forms/d/1FAIpQLSdUOK4uYg6sHuzD-6eWJ7\\_YH9u1eAZZpNFFzpd7uH51q/viewform?usp=pp\\_url](https://docs.google.com/forms/d/1FAIpQLSdUOK4uYg6sHuzD-6eWJ7_YH9u1eAZZpNFFzpd7uH51q/viewform?usp=pp_url)      G – pay: 9629388728

**CONTACT**  
**Dr. R. Raguathanan**  
 Director and Research Supervisor  
 Centre for Bioscience and Nanoscience Research  
 Echazharry, Coimbatore - 21, Tamil Nadu, India

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[www.cbncrindia.com](http://www.cbncrindia.com)  
 +91 9629388728



## *Hands on Training*

- Shri Devaraja Urs Academy of Higher Education & Research CBNR and Institute of Nutrigenetics cordially conducted two days hands on training on Nutritional Genomics for research and Clinical Practice on 03 to 04.12.2023 at CBNR campus. Dr.R Raganathan, Dr.Jestena Johney, Ms.mridhuna Manoharan aad Abirami were handled the session.



### *Industrial Visits*

- From the Department of food science, St.Teresa College Ernakulam, Kerala was visited CBNR for One day on 23-03-2023, 19 students and 2 faculty members are came and learned the instruments opertaions.



- As part of the study Final year B.Sc Biochemistry, Sarada Vilas College, Mysore, has visited our Institute and learned PCR and Phytochemical analysis works on 16.11.2023.

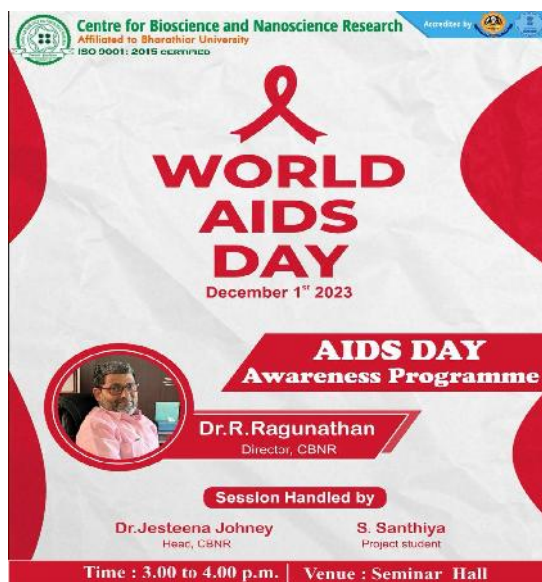


- From the Department of Biochemistry, Erode arts and Science College, Erode, Tamilnadu has visited CBNR for One day on 22-12-2023, more than 35 students and 5 faculty members came and learned the instruments operations.



### AIDS day Awareness Programme

AIDS day Awareness Programme was conducted by CBNR on 01/12/2023 for the CBNR students. Dr.R.Ragunathan, Dr.Jesteena Johney and Ms. S.Sathiya was handled the session.



## Auspicious celebration/ Awards

### *Republic Day*

74th Republic Day was celebrated on 26th January 2023 at CBNR campus.





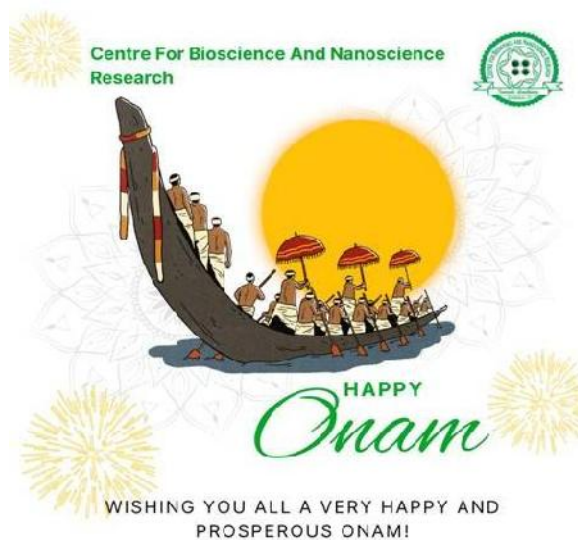
### ***Independence day celebration***

To mark the 75th Diamond Jubilee Independence Day Celebrations of India's freedom, The National Flag was hoisted by the Director along with chairman, staffs and other dignitaries along with students on August 15-2022.



## *Onam celebration*

Onam was celebrated at the institute premises on 29<sup>th</sup> August 2023. Staffs and students are participated and celebrated.



## *Saraswathi Pooja Celebration*

Saraswathi Pooja has been celebrated in the presence of chairman, director and other staff members on 21<sup>th</sup> October 2023.



## Staff activities

- School of Life sciences, Department of Biotechnology, Biochemistry and Food science and Nutrition Jointly Organized Orientation programme on Food safety and Analytical Technique on 16.02.2023 at Nehru Arts and Science College, Coimbatore. Dr. R.Ragunathan, Director of Centre for Bioscience and Nanoscience Research.

**NEHRU ARTS AND SCIENCE COLLEGE**  
[An Autonomous Institution affiliated to Bharathiar University]  
(Accredited with 'A' Grade by NMC, ISO 9001:2015 & 14001:2004 Certified  
Recognized by UGC with 2(1) & 2(B), Under Star College Scheme by DBT, Govt. of India)  
Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 006, Tamil Nadu

**SCHOOL OF LIFE SCIENCES**  
Departments of **Biotechnology**  
**Biochemistry & Food Science and Nutrition**  
Jointly organizes

**Orientation Programme**  
on  
**"Food Safety and Analytical Techniques"**

Resource Person:  
Dr. R. Ragunathan PhD, FSAB  
Director & Research Supervisor  
Centre for Bioscience & Nanoscience  
Research (CBNR)  
CBNR Academy of Life Sciences  
Coimbatore - 641 021.

Date : 16th February 2023  
Time : 01:30 PM  
Venue : Biotechnology Lab

Dr. N. SARANYA HoD-Biotechnology      Dr. A. SWARNALATHA HoD-FSN  
Dr. K. Narayanasamy HoD-Biochemistry      Dr. M. Thangavel DEAN - SoLS      Dr. B. Anirudhan Principal

Made with: PosterMyNet.com

- Dr. R.ragunathan , Director of Centre for Bioscience and Nanoscience Research gave an expert talk on “Process of innovation Development and Technology readiness Level and Commercialization of Lab Technologies and Tech-Transfer” for the Department of Biochemistry and Institutions innovation council, Sri Ramakrishana College of Arts and Science for Women, Coimbatore on 27.2.2023.



The poster features a light blue background with purple and orange circular accents. At the top left, there are logos for Sri Ramakrishna College of Arts & Science for Women, the Institution's Innovation Council, and SNR. The main text is centered in a mix of orange, purple, and blue fonts. A circular inset in the top right shows a hand holding a glowing blue brain icon. Another circular inset in the bottom right shows a portrait of Prof. Dr. R. Ragunathan. At the bottom right, there are icons for a calendar, a clock, and a location pin, followed by the event details.

**SRI RAMAKRISHNA**  
COLLEGE OF ARTS & SCIENCE FOR WOMEN  
Affiliated to Bharathiar University, Coimbatore  
An ISO 9001:2015 Certified Institution

**INSTITUTION'S INNOVATION COUNCIL**  
Coimbatore

**SNR**

**Department of Biochemistry  
&  
Institution's innovation Council**  
**Organizes**  
**Expert Talk on**  
*"Process of Innovation Development &  
Technology Readiness Level (TRL)"*  
&  
*"Commercialization of Lab Technologies &  
Tech-Transfer"*

*Resource Person*  
**Prof Dr. R.Ragunathan**  
*Director-Centre for Bioscience and  
Nanoscience Research,  
Coimbatore*

 **Date :27.02.2023**  
 **Time: 12:15 pm**  
 **Venue: F114**

- Dr. R.Ragunathan, Director of Centre for Bioscience and Nanoscience Research acted as Resource Person for the one day Seminar on “Scope and Challenges in Bio - Entrepreneurship” for the Department of Biotechnology Karpagam Academy of Higher Education, Coimbatore on 24.07.2023.

**KARPAGAM ACADEMY OF HIGHER EDUCATION**  
(Deemed to be University) (Established Under Section 3 of HEC Act, 1956)  
(Accredited with A+ Grade by NAAC in the Second Cycle) (ISO 9001:2015 & ISO 14001:2015 Certified)

**INSTITUTION'S INNOVATION COUNCIL**

Faculty of Engineering  
Department of Biotechnology

RESOURCE PERSON

IIC One-day Seminar on  
**SCOPE AND CHALLENGES  
IN BIO-ENTREPRENEURSHIP**

**Prof. Dr. R. Ragunathan**  
Director,  
Centre for Bioscience and Nanoscience Research  
Coimbatore.

Dean  
**Dr. A. Amudha**  
Faculty of Engineering  
Karpagam Academy of Higher Education

Convener  
**Dr. S. Karthikeyan**  
Associate Professor & Head  
Department of Biotechnology  
Karpagam Academy of Higher Education

Organizing Secretary  
**Mr. Mohan R A**  
Assistant Professor  
Department of Biotechnology  
Karpagam Academy of Higher Education

**JULY 24 2023**

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Coimbatore-641021,  
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- Internal Quality Assurance Cell organised an International Multidisciplinary Conference on Emerging Trends Challenges and Opportunities on 24 and 25 of August 2023, Dr.R.Ragunathan, Director Centre for Bioscience and Nanoscience Research was acted as resource person.



# SNGC CONCLAVE

INTERNATIONAL MULTIDISCIPLINARY CONFERENCE ON

## EMERGING TRENDS CHALLENGES & OPPORTUNITIES

24 & 25 AUGUST 2023



**24<sup>th</sup> August 2023**  
**Inaugural Chief Guest**  
**Dr. M. Shanmugam**  
 Senior Regional Director, IGNOU, Madurai

**Resource Persons**

**24<sup>th</sup> August 2023**  
**Life Science**  
 Topic: Life science for sustainable development for the society  
**Dr. R. Ragunathan**  
 Director and Research Supervisor Centre for Bioscience and Nanoscience Research, Coimbatore.

**24<sup>th</sup> August 2023**  
**Commerce & Management**  
 Topic: Embracing Young Minds in Entrepreneurship  
**Mr. Senthil Kumar Palanisamy**  
 Co-Founder, Brain Magic Academy, Bangalore.

**24<sup>th</sup> August 2023**  
**Topic: Ecocriticism**  
**Dr. N. Jayasree**  
 Assistant Professor of English, PSG Krishnamoorti College of Arts & Science, Coimbatore.

**25<sup>th</sup> August 2023**  
**Social Work**  
 Topic: Recent Trends, Challenges and Opportunities in Professional Social Work  
**Dr. P. Jaya Kumar**  
 Principal, IIC, Madurai Institute of Social Sciences, Madurai.

**25<sup>th</sup> August 2023**  
**Computer Science**  
 Topic: Design Thinking as Art of Innovation  
**Dr. Aruchamy Rajini**  
 Assistant professor, Dept of Computer Science, NQM College, Pollachi.

**ORGANISED BY**  
 INTERNAL QUALITY ASSURANCE CELL  
**SREE NARAYANA GURU COLLEGE**  
 (Affiliated to Bharathiar University, Coimbatore)  
 (Re-Accredited by NAAC & an ISO 9001:2015 Certified Institution)  
 K.G.CHAVADI, COIMBATORE - 641105



- Sree Narayana Guru College, Coimbatore and CBNR organized a Student Development Programme on the topic of Food Adulteration and its Detection on 13.10.2023. Dr R.Ragunathan acted as Resource person, Mridhuna Manoharana, V. Abirami were handles practical sessions for the students.

 **SREE NARAYANA GURU COLLEGE**  
Affiliated to Bharathiar University, Coimbatore  
Re-Accredited by NAAC & an ISO 9001:2015 Certified Institution  
Palakkad Main Road, K.G. Chavadi, Coimbatore - 641 105 

**DEPARTMENT OF BIOCHEMISTRY AND BIOTECHNOLOGY**  
**ORGANIZES A**  
**Student Development Program**  
**“FOOD ADULTERATION AND ITS DETECTION”**

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

**PATRON**  
**Dr. D. KALPANA**  
**Principal, SNGC**

**Date: 13.10.2023**  
**Time: 11.00AM**

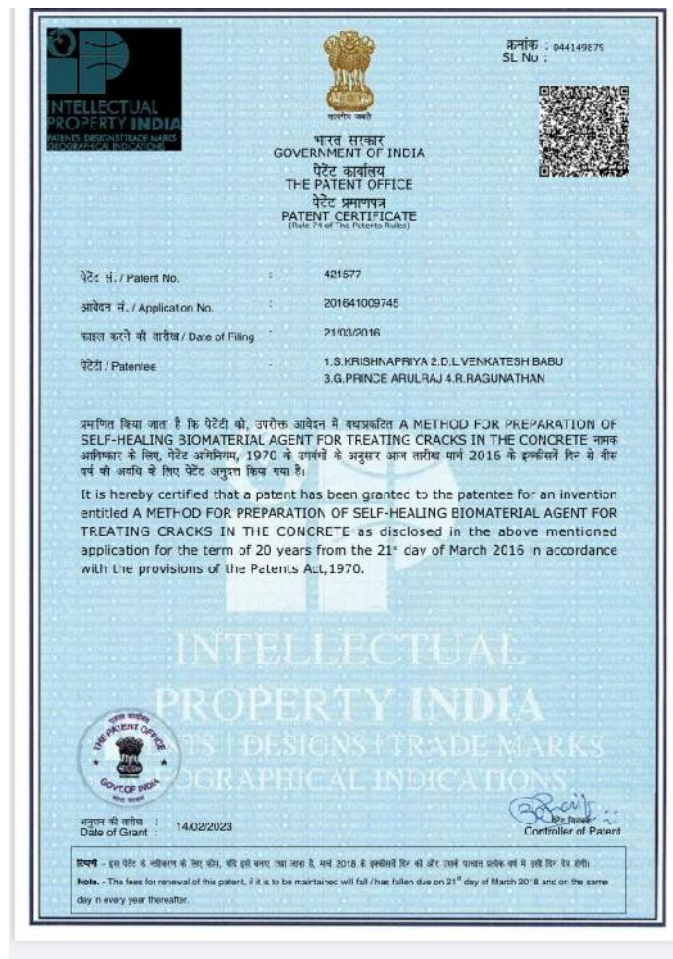
  
**Venue: Biochemistry Lab**

 [sngcadmission@gmail.com](mailto:sngcadmission@gmail.com)  0422-2656840, 2656527  [www.sngasc.ac.in](http://www.sngasc.ac.in)  [sngc\\_cbe](https://www.instagram.com/sngc_cbe)

## Achievements of CBNR

### Patent

- Patent has been granted for a method for Preparation of self healing biomaterial agent for treating cracks in the concrete, with the provisions of the patents act 1970, the date of grant is 14.02.2023.





### ***Ph.D Awards***

Ms. Jesteena Johney was awarded for the Ph.D in Food and Nutrition, from Bharathiar University on 28.07.2023 and she has been promoted as Head of the Institute.



### ***M.Phil Award***

Mr.VipinKrishnaS.L was awarded for M.Phil under the guidance of Dr.R.ragunathan Director of Centre for Bioscience and Nanoscience Rsearch on 23.022023.



**Best Oral Presentation**

Best oral presentation award was received for the paper T titled **Plant based nanoparticles and their Potential Applications** presented by Ms.Linima V.K, R.Ragunathan and Jesteena Johney in the 9<sup>th</sup> Geo Green Summit organized by BioLEAGUES on 29<sup>th</sup> and 30<sup>th</sup> December 2023



## **FDP**

M. Mridhuna Manoharan, Biotechnologist was attended one week faculty development programme conducted by Shri Venkateshwara College of pharmacy on pharmaceutical education: Trends and Tools from 18<sup>th</sup> to 23 Feb 2024.



## **Donations**

- Centre for Bioscience and Nanoscience Research- Visalakshi Educational Trust has donated stationary items for the Government Higher Secondary School, Bujanganar, Coimbatore, Tamilnadu.

## Research achievements of CBNR

*Paper Publications in National and International Level – 13*

*NCBI Gene Sequencing – 41*

### Research Scholars achievements

| Sl.No | Scholar name and Department | Name of Conference/Seminars   | Date and venue  | Title of the paper  |
|-------|-----------------------------|---|---|---|
| 1     | <b>V.K.Linima</b>           | UGC Sponsored Two-Day National Conference on New Horizons in Biological Science Research    | 4 <sup>th</sup> and 5 <sup>th</sup> January 2023, Department of Botany, Avinashilingam University, Coimbatore.            | Biological synthesis of iron nanoparticles and its biomedical applications  |
| 2     |                             | International Multidisciplinary conference on Emerging trends, Challenges and Opportunities | 24 and 25 August 2023, SNGC college, Coimbatore   | Biological synthesis of <i>Desmodiumtriflorum</i> mediated iron nanoparticles and its antibacterial study                   |
| 3     |                             | National conference on Environmental and Ecology  | 4 <sup>th</sup> and 5 <sup>th</sup> October, 2023, Department of Environmental science, Bharathiar University, Coimbatore | <i>Centellaasiatica</i> leaves extract for a green synthesis of iron nanoparticles : antimicrobial and cytotoxicity effects |
| 4     |                             | Current Trends in Nano Based Drug Delivery Rsearch  | 09 <sup>th</sup> December 2023, Department of Pharmacy,SreeAbirami College of Pharmacy,Coimbatore                         | Biofabrication of <i>Desmodiumtriflorum</i> mediated iron nanoparticles and its antimicrobial activity                      |

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| 5 |               | 5 <sup>th</sup> National Bio conclave on Biopharmaceutics for Sustainable Development (NBBSD'23) | 4 <sup>th</sup> and 5 <sup>th</sup> , October 2023, Department of Biotechnology CBNR, Coimbatore   | Biosynthesis of <i>Centellaasiatica</i> extract based silver nanoparticles: cytotoxicity and antibacterial effects      |
| 6 |               | International Seminar on Environmental Toxicology  | 20 <sup>th</sup> March 2023, PG and Research Department of Zoology, KMC college, Coimbatore  | Biological synthesis of metal nanoparticles and its biomedical applications   |
| 7 | Brinda C.M    | National conference on new Horizons in Biological Science Research                               | 4 <sup>th</sup> and 5 <sup>th</sup> of January 2023./ Avinashilingam Institute for home science and higher education for Women. Coimbatore | Molecular identification of Biosurfactant producing <i>Bacillus sp</i> and its antibacterial study:                     |
| 8 |               | Fifth National Bio conclave on Bio Pharmaceutics for sustainable development.                    | 4 <sup>th</sup> and 5 <sup>th</sup> Oct 2023./ Centre for Bioscience and Nanoscience Research (CBNR) Coimbatore                            | Biosurfactant production by <i>Bacillus amyloliquefaciens</i> MN243658, characterization and its potential applications |
| 9 | Geethu Suresh | National Bio Conclave on Biopharmaceutics for sustainable development                            | 04-10-2023, CBNR, Coimbatore   | Isolation, screening and molecular identification of lignin degrading fungi From Western Ghats of India                 |

## Distinguished Visitors

| Sl No | Date     | Details of the visitor   |
|-------|----------|--|
| 1     | 23/02/23 | Dr. Rajalakshmi<br>Professor and Head, Department of Biotechnology<br>Hindusthan College of Arts and Science, Coimbatore             |
| 2     | 26/07/23 | Dr. Senthil Kumar<br>Associate Professor and Head, Department of Biotechnology<br>Hindusthan College of Arts and Science, Coimbatore |
| 3     | 26/07/23 | Dr. K. Srinivasan<br>Professor and Head, Department of Physics<br>Bharathiar University, Coimbatore-641046                           |
| 4     | 04/10/23 | Dr. P. Agastian<br>Associate Professor, Plant Biology and Biotechnology<br>Loyola College, Chennai                                   |
| 5     | 04/10/23 | Dr. S. Suja<br>Professor and Head, Department of Biochemistry<br>Bharathiar University, Coimbatore                                   |
| 6     | 05/10/23 | Dr. M. Senthil Kumar<br>Research Director, Sree Abirami College of Pharmacy, Coimbatore  |
| 7     | 05/10/23 | Dr. Rama Bhatt P<br>Professor and Head, PG Dept. of Biotechnology<br>Alva's College  |
| 8     | 09/11/23 | Dr. N. Vanitha<br>Professor, Department of Microbiology<br>Hindusthan College of Arts and Science, Coimbatore-28                     |

