



## **PROFILE**

**Name & Qualification:** Dr. R. Nithyatharani M.Sc., D.M.L.T., D.D.T.P., M. Phil., Ph. D., NET (ICAR)

**Designation:** Assistant Professor

**Department:** Microbiology

**E Mail ID:** [sanaharjun1983@gmail.com](mailto:sanaharjun1983@gmail.com)

**Official Mail ID:** [nithyatharanir@sigc.edu](mailto:nithyatharanir@sigc.edu)

**Subject Specialization:** Agricultural and Environmental Microbiology

**Total Teaching Experience:** 07

### **ACADEMIC ACHIEVEMENTS:**

- **PATENT FILED**  
Design Patent Application No. 398671-001. Portable Device for Measuring Sugar Level Through Saliva
- **PATENT PUBLISHED**  
HERBAL BASED COLLAGEN-CHITOSAN COMPOSITE SCAFFOLD FOR WOUND HEALING. APPLICATION NO. TEMP/E1/63076/2020- CHE DATED 29.12.2020 & published on 01-07-2022.

### **RESOURCE PERSON**

- Resource person for International E-Conference on Innovation in Lifesciences (IECILS-2023) at Sacred Heart College on 15-10-2023.
- Invited Talk on 'Microbial Biotechnology for sustainable Agricultural Production' at Bharathidasan University PG Extension Centre, Kurumbalur.

- Invited Talk on ‘Nano-Bio-fertilizers’ at B.K. Birla College, Kalyan, Mumbai.
- Invited Talk on ‘Organic Farming for a better tomorrow’ at Sri Krishna Adithya College of Arts & Science, Coimbatore
- Invited Talk on ‘Micro-organisms- The Omnipresent’ at Excel College for Commerce & Science
- Invited talk on ‘Eco-friendly A reality’ at Thanthai Hans Rover College, Perambalur on 02-02-2023.
- Acted thrice as a resource person for National Workshop on CSIR-UGC NET preparation in LS organized by ‘Botany for U’.

### **CHAIR PERSON**

- Jury for International E-Conference on Innovation in Lifesciences (IECILS-2023) at Sacred Heart College on 15-10-2023.
- Acted as a chairperson for Inter-Amrita Science Exhibition Competition organized by Amrita Vidhyalaya, Tamil Nadu & Puducherry on 12-01-2022
- Acted as a chairperson for Intercollegiate Technical Symposium organized by Dept. of botany, St. Josephs College on 25-03-2022.
- Acted as a chairperson for Zoofest-2022, Intercollegiate competition at Nehru Memorial College, Trichy
- Acted as a chairperson for Zoofest-2023, Intercollegiate competition at Nehru Memorial College, Trichy

### **CSIR**

- Selected for CSIR Summer Research training Program (June – August 2020).

### **NPTEL**

- QC for NPTEL course “Introduction to Machine Learning”
- QC for NPTEL course “English Language for Competitive Exams”
- Appointed as QC for NPTEL Translation Process.
- Acted as NPTEL translator & reviewer.
- Acted as NPTEL Mentor for 4 times for courses Forests and their Management, organic farming for sustainable production, Basics of Biology.

## **NCERT**

- Acted as NCERT translator.

## **MBSI ONLINE COURSE CO-ORDINATOR**

- Professional Skills. Course Code RN2330
- Entrepreneurial Microbiology. Course Code RN2331

## **REVIEWER**

- IJCRT
- Science Insights

## **VAC**

- Handled Value Added Course on Diagnostic Microbiology.
  
- Attended Hands on Workshop on Principles, Application and Troubleshooting on HPLC & HPTLC held at BIT Campus, Anna University, Trichy on 24-02-2023
- Received 'Young Scientist Award' by VD GOOD- International Scientist Awards 2019 on Engineering, Science and Medicine.
- Name appeared thrice in the acknowledgement page of Springer Books.
- Won 2 Best Paper Presentaion awards
- Presented 11 papers in International level & 10 in national level conference and seminar.
- Presented 3 posters in International level conference & 1 in state level.
- Attended 1 international, 1 national & 3 state level seminars.
- Attended 3 national level workshop & 8 state level workshops.
- Attended one offline refresher course
- Attended 4 online refresher course from NPTEL
- Attended 4 International, 14 National & 12 state online FDP's
- Attended 2 International E-conferences
- Attended 29 International, 31 National, 72 state level webinar
- Attended 2 International & 8 National online workshops
- Attended 4 online National Training programs on MOODLE conducted by IIT Bombay, funded by National mission on Education through ICT, MHRD, Govt., of India
- Attended 6 online National certificate courses

## **PAPER PRESENTATION:**

## **FULL PAPER PRESENTATION:**

**INTERNATIONAL:**

1. R. Nithyatharani, V. Dhivaharan and V. B. Hosagoudar. Asterinales of Kodaikanal, Tamil Nadu. International Conference at Dhanalakshmi Srinivasan Arts and Science College for Women, Perambalur. 6<sup>th</sup> March 2017.

**NATIONAL:**

2. Nithyatharani.R and Vasanthi.T. Isolation and characterization of different *Rhizobium* from *Pithecolobium dulce* (Benth) and *Erythrina indica* (LAM) and their effects on nodulation, nitrogen fixation and crop improvement in black gram *Vigna mungo* (LIM). National level symposium at Shrimad Andavan Arts and Science College, Tiruchirappalli. Oct 2005. Abstract No.2, PP- 32.
3. Nithyatharani.R, Subashini. G, Abirami. K, Vaidhegi. A. National Seminar on “Impact of Non-Communicable Diseases in India” held on 11.10.2023 at Shrimati Indira Gandhi College, Trichy-02

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**ABSTRACT PAPER:****INTERNATIONAL:**

1. R. Nithyatharani, V. Dhivaharan and V. B. Hosagoudar. New species of Meliolales, Kodaikanal Hills, Tamil Nadu, India. International Conference at AVC College, Mayiladuthurai. Feb 2017.
2. R. Nithyatharani and U.S. Kavitha. Bio-indicator of Soil Fertility. International Seminar on “Microbes, Microbial Processes and Products” at S.T.E.T Women’s College, Mannargudi. 12<sup>th</sup> September 2017.
3. R. Nithyatharani, T. M. Maheswari and U.S. Kavitha. A Comparative study on homemade Wines. International Seminar on “Microbes, Microbial Processes and Products” at S.T.E.T Women’s College, Mannargudi. 12<sup>th</sup> September 2017.
4. R. Nithyatharani and S. Priyadarshni. Preparations of herbal mouth wash using *Abutilon indicum*. International Seminar on “Microbes, Microbial Processes and Products” at S.T.E.T Women’s College, Mannargudi. 12<sup>th</sup> September 2017.
5. R. Nithyatharani and K. S. Abirami. Biocontrol measures against Blast disease of rice. International Seminar on Emerging Trends in Biological Research (ETBR 2018) at Jamal Mohamed College, Trichy. 3<sup>rd</sup> March 2018.
6. R. Nithyatharani and T.M. Maheshwari. Antagonistic effect of *Trichoderma Glaucum*. International Seminar on Emerging Trends in Biological Research (ETBR 2018) at

- Jamal Mohamed College, Trichy. 3<sup>rd</sup> March 2018.
7. R. Nithyatharani and U.S. Kavitha. Production of low cost herbal lotion for treating wounds. International Seminar on Emerging Trends in Biological Research (ETBR 2018) at Jamal Mohamed College, Trichy. 3<sup>rd</sup> March 2018.
  8. R. Nithyatharani. Green Synthesis of Silver Nanoparticle against Dental Caries. International conference on “New Vistas in Life Sciences” at Holy Cross College, Trichy-18. 11<sup>th</sup> September 2018.
  9. R. Nithyatharani, Priya. P & Maria Saleth Mary. J. PHA producing bacteria from food waste. International Conference on Recent Trends in Microbiology at Algappa University, Karaikudi. 24<sup>th</sup> & 25<sup>th</sup> Jan 2019.
  10. R. Nithyatharani. International Seminar on “Microbial Interventions for the Welfare of Human Beings” (MIWHB-2019) at S.T.E.T Women’s College, Mannargudi. 9<sup>th</sup> August 2019.

#### **NATIONAL:**

11. Nithyatharani.R, Asthalakshmi.T.S.R. and Sagayagiri.R. Effect of Rhizobial isolates of *Erythrina indica* (LAM) on *Vigna mungo* and *Vigna radiata*. National level symposium at Dhanalakshmi Srinivasan Arts and Science College for Women, Perambalur. Sep 2004. Abstract No. 14, PP-14.
12. Role of *Glomus fasciculatum* in hardening of tissue culture plantlets. National symposium on “Microbial and Plant Biotechnology” at Loyola College, Chennai. Feb 2005.
13. R. Nithyatharani, V. Dhivaharan and V. B. Hosagoudar. Foliicolous micromycetes in Kodaikanal, Tamil Nadu. National seminar on Biodiversity for Human Welfare at Manglore University. April 2010.
14. R. Nithyatharani, V. Dhivaharan and V. B. Hosagoudar. Two new records of black mildews from Kodaikanal. National conference on plant diversity at Kristu Jayanti College, Bangalore. Oct 2010. Abstract No. 23, PP-80
15. R. Nithyatharani, V. Dhivaharan and V. B. Hosagoudar. New species of *Asterina* from Kodaikanal. National conference at H.H Rajah College, Pudukkottai. Dec 2011.
16. R. Nithyatharani, V. Dhivaharan and V. B. Hosagoudar. 3 New species of *Asterina* from Kodaikanal. National Conference at Kumararani Meena Muthiah College, Chennai.

17. R. Nithyatharani and V. Dhivaharan. Preparation of low cost herbal mouth wash. National Conference on Recent Advances in Modern Biology and Rural Development at A.V.V.M Sri Pushpam College, Thanjavur. 5<sup>th</sup> & 6<sup>th</sup> October 2017.

18. U.S. Kavitha, R. Nithyatharani and V. Dhivaharan. A Remedy for soil pollution at zero cost. National Conference on Recent Advances in Modern Biology and Rural Development at A.V.V.M Sri Pushpam College, Thanjavur. 5<sup>th</sup> & 6<sup>th</sup> October 2017.

19. T. M. Maheswari, R. Nithyatharani and U.S. Kavitha. Home Made Wines- A Powerhouse of nutrients. National Conference on Recent Advances in Modern Biology and Rural Development at A.V.V.M Sri Pushpam College, Thanjavur. 5<sup>th</sup> & 6<sup>th</sup> October 2017.

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**POSTER PRESENTATION:**

**INTERNATIONAL:**

1. R. Nithyatharani and U. S. Kavitha. Emerging use of nanomedicine in the treatment of breast cancer. International Conference on Frontiers in Nano-Biotechnology (ICFNB'17) at Bishop Heber College, Trichy. 8<sup>th</sup> & 9<sup>th</sup> of September 2017.
2. R. Nithyatharani and Maria Saleth Mary. J. Myconanoparticle as filters in water purification. International conference on "New Vistas in Life Sciences" at Holy Cross College, Trichy-18. 11<sup>th</sup> September 2018.
3. R. Nithyatharani and Priya. P. Isolation and screening of polyhydroxyalkanoates producing bacteria from agricultural waste. International conference on "New Vistas in Life Sciences" at Holy Cross College, Trichy-18. 11<sup>th</sup> September 2018.

**STATE LEVEL:**

4. R. Nithyatharani and U. S. Kavitha. Microbes a tool for modern era. State Level Seminar on "New Challenges in the Present Era of Biological Research" at Holy Cross College, Trichy. 22<sup>nd</sup> Feb 2017.
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**CONFERENCE / SEMINAR ATTENDED:****INTERNATIONAL:**

1. International Colloquia on “Bionanomaterials and Bionanotechnology (ICBB’18) at Department of Biochemistry, St Joseph’s College, Trichy. 8<sup>th</sup> February 2018.

**NATIONAL:**

2. One day National seminar on Induction if higher educational learners on the disease preventive therapeutic properties of indigenous medicinal plants and their display- Sponsored by TNSCST at M.R. Government Arts College , Mannargudui. 28<sup>th</sup> February 2020.

**DISTRICT:**

3. District level scientific seminar on “Medical technology” at Advanced Medical Diagnostic Training Centre (A.M.D.T.C), Tiruchirappalli. May 2004.
4. Seminar on “Bioinformatics and its application” at STET Women’s College, Mannargudi. Jan 2006.
5. Seminar on “Application of Biotechnology in Human Welfare” at STET Women’s College, Mannargudi. Jan 2006.

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**WORKSHOP ATTENDED:****NATIONAL:**

1. Science Academies Lecture Workshop on New Vistas in Biodiversity and Bioresources (NIBIO’17) at St. Josephs College, Trichy. 2<sup>nd</sup> to 4<sup>th</sup> August 2017.
2. UGC Sponsored Science Academics Lecture Workshop on Herbal Medicines at Shrimad Andavan Arts and Science College, Tiruchirappalli. 12<sup>th</sup> and 13<sup>th</sup> September 2017.
3. Plant and Microbial Bioresources and their Conservation- PMBC’18”. Department of Microbiology, Cauvery College foe Women, Trichy. 23<sup>rd</sup> & 24<sup>th</sup> Jan 2018.

**STATE LEVEL:**

4. State level workshop on “Collection, preservation and identification of common coastal and marine fauna and flora occurring in Mallipattinam along South-East coast of India”, at Sri Venkateswara College of Arts and Science, Peravurani. Dec 2004.
5. Workshop on “Biostatistics and its application” at STET Women’s College, Mannargudi. Aug 2005.

6. Workshop on “Molecular and Immunological Techniques” at STET Women’s College, Mannargudi. Jan 2006.
  7. Workshop on “Organic Farming Production” at Jamal Mohammed College, Trichy. 27<sup>th</sup> & 28<sup>th</sup> January 2017.
  8. One day Hands on training programme on Mushroom cultivation. Department of Microbiology, Cauvery College for Women, Trichy. 19<sup>th</sup> Jan 2018.
  9. Challenges and Opportunities in Bio Informatics. Department of Microbiology, Cauvery College for Women, Trichy. 15<sup>th</sup> & 16<sup>th</sup> Feb, 2018.
  10. Women’s Health Care and Diagnostic Techniques. Department of Microbiology, Cauvery College for Women, Trichy. 12<sup>th</sup> & 13<sup>th</sup> March, 2018.
  11. Regional workshop on Histopathological techniques. St. Joseph’s College, Trichy. 15<sup>th</sup> December 2018.
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#### **REFRESHER COURSE:**

1. Science Academies Refresher course on Bio Prospection of Bioresources: Land to Lab Approach. PG & Research Department of Botany, St. Joseph’s College, Trichy. 4<sup>th</sup> to 18<sup>th</sup> Jan 2018.
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#### **FDP**

- Faculty Development Programme on “Biotechnology for Entrepreneurship” organized by Bon Secours College, Thanjavur from 20-11-2023 to 25-11-2023.
  - Five days International Virtual Faculty Development Programme on “Recent Trends in Biological Sciences” (RTBS 2023) organized by the department of Botany from 16-10-2023 to 20-10-2023)
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#### **NATIONAL WEBINAR**

- Participated in One day National webinar on “Consumer Rights and Education” at KMG College Arts and Science, on 19-10-2023.
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