

# Prof. N. Thajuddin, Ph.D., D.Sc.

**FLS (London), FRSB (London), FNABS, FMSI, FMBSI**



## **Pro – Vice Chancellor**

B. S. Abdur Rahman Crescent Institute of Science & Technology  
(Deemed to be University)  
Vandalur  
Chennai – 600 048  
Tamil Nadu, India.

## **Formerly**

**Professor & Head**, Department of Microbiology (14.5 & 9.9 years)

Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu, India

**Syndicate Member** - Bharathidasan University (March 2009 - January 2010)

**Senate Member** - Bharathidasan University (May 2007 - June 2019)

**Dean** - Faculty of Science, Engineering & Technology (June 24, 2015 –June 3, 2019)

**Coordinator** - DST-PURSE Programme (June 2016 – February 2022)

**Coordinator / Principal Investigator**

National Repository for Microalgae and Cyanobacteria - Freshwater & Marine  
(NRMC – F & M) (Sponsored by DBT, Govt. of India)

**Director** - National Facility for Marine Cyanobacteria (NFMC) (DBT, Govt. of India)

**President** - Alumni Association (2007 – 2011)

**Programme Coordinator** - V - Year Integrated M.Sc. Life Sciences (2019 – 2022)

**Chair** - Centre for Excellence in the School of Life Sciences (2017 – 2022)

**Coordinator** - Centre for Excellence in School of Life Sciences (from.2017 to 2023)

**Convener** - World Class Curriculum Development Cell in Biological Sciences (2017 – 2022)

**Member Secretary** - Institutional Biosafety Committee (IBSC) (2016 – 2022)

**Member Secretary** - Institutional Ethical Committee (IEC) (2018 – 2022)

**Editor in –Chief** - Bharathidasan Journal of Science & Technology (2018 – 2022)

**Library i/c** - School of Life Science – (2016 – 2022) Bharathidasan University

## Summary of Academic & Administrative Activities ....

- 31 years of Teaching and 35 years of Research experiences at Bharathidasan University
- Area of Specialization – Microbiology (Cyanobacteria & Microalgal taxonomy & Biotechnology)
- Underwent a year training in USA as Post-Doctoral Research Associate (Long Term) through DBT (Govt. of India) Overseas Award.
- Total number of publications – 453, including 70 book chapters/reviews & 4 papers in Nature Group Journals
- Countries officially visited – USA, UK, KSA, Honk Kong, Singapore, Malaysia, Germany, South Korea, Sweden, Denmark, Finland and Italy.
- Books published – 11 (under TANSCHE, Elsevier, CRC Press, Springer Nature & InTech publishers, etc.)
- Grants received for personal Research projects & programmes: 7.49 crores.
- Grants received other than personal research (UGC-Non SAP, DST - PURSE, FIST) - Rs. 18.49 crores.
- Number of Ph.D's produced: 38 candidates (including 10 candidates as Co-guide)
- Number of M.Phil. candidates guided: 31 & M.Sc. Project guidance: 142 candidates
- Post-Doctoral guidance – Guided: 15 PDFs.
- Presented 119 papers in 50 International level Conferences/ Symposia and 383 papers in 97 National level Conferences/Symposia/ Seminars in which 58 Papers have received Best Paper Awards / Cash Prizes
- As chief guest and a resource person delivered Lead & Plenary lectures, Keynote, Inaugural and Valedictory addresses in 430 conferences, seminars, symposia, refresher courses, DST – INSPIRE programmes, webinars, training programmes & workshops.
- Chaired 42 technical sessions in conferences and symposia.
- As a chief guest delivered 8 graduation day addresses. and 4 All India Radio talks
- Received 22 awards from different organizations including prestigious TANSA award (TNSCST); Senior Scientist Award from Microbiologist Society, Life Time Achievement Award from Society of Chemical & Synthetic Biology; Elected Fellow of Royal Society of Biology (FRSB) London, Fellow of Mycological Society, India (FMSI), Fellow of National Academy of Biological Sciences (FNABS) and Fellow of the Linnean Society (FLS) London, Fellow of Microbiologists Society, India (FMBSI), Life Time Achievement Award from Antiviral Research Society (AVRS) Life Time Devotion Award from Microbiologists Society, India (MBSI),..
- Organized 5 Refresher Courses, 3 DST-INSPIRE programmes, 8 Symposia, 2 International Conferences, 2 Seminars and 8 Workshops.
- Acted as Doctoral Committee member for 170 Ph.D. candidates.
- Four Indian Patents and two US patents filed & published in the Patent Office Journal, of which one US patent is granted on April 2022.
- 5 MoUs signed with the universities & institutions at Republic of Korea, P.R. China and Taiwan. Three MoUs worth of 1.07 crore with Industries on effluent treatment and Development of New building materials & Improve the Energy storage.
- Total numbers of nucleotides/ genes deposited in the GenBank – 655, Barcode of 6 Fungi & whole genome sequences of 7 cyanobacteria.
- Evaluated Ph.D. thesis from other Universities – 156.
- Publications received total Citations – 14,567; *h* index – 58; *i10* index – 203 (as on February 18, 2026). Total Impact factor – ~608.57
- Key role in the establishment of National Facility for Marine Cyanobacteria (DBT, Govt. of India)
- Established National Repository for Freshwater Microalgae & Cyanobacteria (NRMC-F) funded by DBT, Govt. of India) (NRMC-F website: [www.nrmcf.org](http://www.nrmcf.org)).
- Establishment of “Professor N. Thajuddin Endowment Gold Medal Award” by my Ph.D. Students given to the First Rank student of M.Sc. Microbiology of Bharathidasan University Department from 2024 Convocation Ceremony of Bharathidasan University every year.

Listed under Top 2% Scientist of the World in Microbiology published by Stanford University, USA (2020, 2021, 2022, 2024 & 2025).

# CURICULUM VITAE

## 1. Name: Dr. N. Thajuddin D.Sc.

Pro – Vice Chancellor,

B.S. Abdur Rahman Crescent Institute of Science & Technology

Vandalur, Chennai – 600 048

Dir: +91 (44) 2275 9200 Extn.103

Mobile : 98423 79719

E.Mail : [provcc@crescent.education](mailto:provcc@crescent.education) / [nthaju2002@yahoo.com](mailto:nthaju2002@yahoo.com)

(Formerly) Professor & Head, Department of Microbiology

Dean, Faculty of Science, Engineering & Technology

Coordinator, M.Sc. Life Sciences (Five Year Integrated Programme)

Chair, School of Life Sciences

Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu, India.

Employee ID Number: BDU1620440

Live DNA Profile: <https://livedna.org/91.7213>

ORCID iD: <https://orcid.org/0000-0001-9966-3119>

Web of Science ID : L-1915-2019

Scopus ID : 24340257000

Website: <https://www.crescent.education/wp-content/uploads/2025/05/Dr-N.-Thajuddin-30-page-CV-May-12-2025.pdf>

2. Date & Place of Birth: 6. 8.1962; Thirumanilaiyur, Karur – 639 003, Tamil Nadu, India.

## 3. Educational Qualifications

Degree	Subject	Institution/University	Month & Year	Class
D.Sc.	Botany	Periyar University Salem, 636 011, India	January 2022	-
Ph.D.	Botany	Department of Botany Bharathidasan University Tiruchirappalli – 620 024, India	August, 1991	-
M.Phil.	Botany	A.V.V.M. Sri Pushpam College Poondi - 613 503, Thanjavur District (Bharathidasan University)	May, 1987	I
M.Sc.	Botany	Govt. Arts College, Karur - 639 005 (Bharathidasan University)	April, 1985	I
B.Sc.	Botany	Govt. Arts College, Karur - 639 005 (University of Madras)	April, 1983	I

## 4. Teaching Experience

Institution	Designation	Period		Total Years	Period Months
		From	To		
Bharathidasan University	Lecturer	11.9.1991	10.9.1996	5	-
Bharathidasan University	Senior Lecturer	11.9.1996	10. 9.2001	5	-
Bharathidasan University	Reader	11.9.2001	31.12.2005	4	3
Bharathidasan University	Associate Professor	1.1.2006	31.12.2008	2	-
Bharathidasan University	Professor	1.1.2009	30.8.2023	14	5

## 5. Administrative Experiences

Position	Organization	From	To	Experience
<b>Syndicate Member</b>	Bharathidasan University	3. 3. 2009	22.1. 2010	10 months
<b>Senate Member</b>	Bharathidasan University	May 2007	June 2019	12 years
<b>Dean, Faculty of Science, Engineering and Technology</b>	Bharathidasan University	24.6.2015	2.6.2019	4 years
<b>Member, Standing Committee on Academic Affairs</b>	Bharathidasan University	May 2007	June 2019	12 years
<b>Chair, School of Life Sciences</b>	Bharathidasan University	1.7.2017	15.11.2022	5 years & 4 Months
<b>Head i/c, Microbiology</b>	Bharathidasan University	15.5.2007	10.9.2008	1 year & 4 months
<b>Head, Microbiology</b>	Bharathidasan University	11.9.2008	22.9.2011	3 years
<b>Head i/c, Microbiology</b>	Bharathidasan University	13.10.2012	12.10.2013	1 year & 0 month
<b>Head, Microbiology</b>	Bharathidasan University	11.1.2015	30.6.2019	4 years & 5 months
<b>Co-ordinator, DST-PURSE</b>	Bharathidasan University	20.7.2016	18.2.2022	5 years & 6 months
<b>Library i/c, Life Science</b>	Bharathidasan University	4.11.2016	9.1.2023	6 years & 2 months
<b>Convener, World Class Curriculum Development Cell, Biological Sciences</b>	Bharathidasan University	31.5.2017	31.8.2022	5 years & 3 months
<b>Editor in-chief, Bharathidasan Journal of Science &amp; Technology</b>	Bharathidasan University	6.9.2018	31.8.2022	4 years
<b>Member Secretary, Institutional Ethical Committee (IEC)</b>	Bharathidasan University	27.2.2018	31.8.2022	4 years & 1 months
<b>Member Secretary, Institutional Biosafety Committee (IBSC)</b>	Bharathidasan University	31.10.2016	31.8.2022	6 years
<b>Programme Co-ordinator, V year M.Sc. Life Sciences, School of Life Sciences</b>	Bharathidasan University	18.10.2019	2.11.2022	3 years
<b>Co-ordinator, Centre for Excellence in the School of Life Sciences.</b>	Bharathidasan University	9. 11. 2017	2.11.2022	4 Years & 11 months
<b>Principal Investigator</b> National Repository for Microalgae & Cyanobacteria – Fresh water	Bharathidasan University	26.3.2015	30.6.2023	8 years & 3 months
<b>Director</b> National Facility for Marine Cyanobacteria (NFMC)	Bharathidasan University	24.1.2022	30.6.2023	1 year & 5 months
<b>Adjunct Professor,</b> Dept. Microbiology	Thassim Beevi Abdul Kader College of Women Kilakarai	5.10.2018	5.10.2019	1 year
<b>Pro – Vice Chancellor</b>	B.S . Abdur Rahman Crescent Institute of Science and Technology (Deemed to be University), Vandalur, Chennai 600 048	3.7. 2023	Till date (25.4.2025)	1 year 9 months

#### 6. Post - Doctoral Fellow (PDF / RA) :

Institution	Funding	From	To	Total Period
Department of Biology <b>Rensselaer Polytechnic Institute</b> Troy, New York, 12180-3590, U.S.A.	Dept. of Biotechnology (Govt. of India) Overseas Award (Long Term)	1.4.1996	31.3.1997	1 year

#### 7. Doctoral Fellow (JRF & SRF) :

Position	Funding	From	To	Total Period
Junior Research Fellow		February 1987	February 1989	2 years
Senior Research Fellow Department of Botany Bharathidasan University Tiruchirappalli – 620 024	Dept. of Ocean Development (DOD) (Govt. of India) New Delhi	February 1989	February 1990	1 year

#### 8. School Education

1<sup>st</sup> Std. – 7<sup>th</sup> Std. (1974) - Municipal Thirumanilaiyur Middle School, Karur- 639 003.

8<sup>th</sup> Std – SSLC (1974 - 1977) - C.S.I. High School, Karur – 639 001.

Pre-University Course: PUC (1979) – Government Arts College, Karur – 639 005.

#### 9. Area of Research at Post Graduate, Doctoral & Post Doctoral levels

Title / year	Name of the research supervisors	Title of the Thesis/Dissertation/Research
<b>M.Sc.</b> <b>(Botany)</b> (1985)	<b>Dr. G. Thirupurasundari</b> Department of Botany Govt. Arts College, Karur &  <b>Dr. T. Marimuthu</b> All India Co-ordinated Research Project on Beetle Vine Diseases, Tamil Nadu Agricultural University Station, Velur, Salem Dt.	   Certain physiological changes in Betel vine ( <i>Piper betle</i> L.) infected with <i>Xanthomonas campestris</i> pv <i>betlicola</i>
<b>M.Phil.</b> <b>(Botany)</b> (1986 –1987)	<b>Dr. S. Balakrishnan</b> Department of Botany AVVM Sri Pushpam College, Poondi, Thanjavur	 Studies of Algae in Industrial Effluents
<b>Ph.D.</b> <b>(Botany)</b> (1987 -1991)	<b>Dr. G. Subramanian</b> Department of Botany Bharathidasan University Tiruchirappalli	 Marine cyanobacterial flora of the southern east coast of India - Survey and Ecobiological Studies.
<b>Post-Doctoral Fellow</b> (April 1996 – March 1997)	<b>Dr. Sandra A. Nierzwicki-Bauer</b> Department of Biology Rensselaer Polytechnic Institute Troy, NY, USA	 16S rDNA and phylogenetic studies on cyanobacterial and bacterial endosymbionts of water fern <i>Azolla</i> .

<p><b>D.Sc. (Botany)</b> January 2022</p>	<p>-Self- <b>Periyar University</b> Salem – 636 011</p>		<p>Biodiversity and Biotechnological Potentials of Microalgae &amp; Cyanobacteria.</p>
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#### 10. Research Projects / Grants Received:

**i) Personal research projects: 20 Research Projects value of Rs.7,49,51,379/- (Rupees seven crore twenty for lakhs fifty-one thousands) from DOD, UGC, DBT & DST**

**ii) Grants received other than personal research - Rs. 18.49 crores from UGC-Non SAP, DST - PURSE, FIST)**

#### 11. Countries Visited:

United States of America, Honk Kong, Singapore, Malaysia, United Kingdom, Germany, Kingdom of Saudi Arabia, Republic of Korea, Sweden, Denmark, Finland and Italy.

#### 12. Publications

##### (i). Citation Profile

Details	*Scopus	**Web of Science	***Google Scholar
Number of Citations	7108	7,144	14.567
h-Index	41	41	58
i-10 index	-		203

\* As on April 30, 2025;    \*\*As on May 8, 2025;    \*\*\* As on February 18, 2026.

Total Impact Factor: 608.87

**Total number of publications: 453 research papers including 73 book chapters/reviews & 4 papers in Nature Group Journals**

##### (ii) . Research Collaborations:

**Research collaborations - 78 joint publications with 64 Universities / Research Institutes of 24 countries.**

No.	Name of the University/institute	Country	Type of Collaborations
1	<ul style="list-style-type: none"> <li>• Rensselaer Polytechnic Institute Troy, New York</li> <li>• Fisk University, Nashville, Tennessee</li> <li>• University of Alabama</li> <li>• Sabinsa Corporation, New Jersey</li> </ul>	USA	Post-Doctoral Research & Joint publication

	<ul style="list-style-type: none"> <li>• Brown University Warren Alpert Medical School, RI</li> <li>• Albany College of Pharmacy and Health Sciences, Albany, New York.</li> <li>• New York University, Grossman School of Medicine, New York.</li> </ul>		
2	<ul style="list-style-type: none"> <li>• Swansea University, Swansea, Wales</li> <li>• Plymouth Marine Laboratory, Plymouth</li> </ul>	<b>United Kingdom</b>	Indo-UK Project (DBT, Govt. of India)
3	<ul style="list-style-type: none"> <li>• National University Singapore</li> <li>• Nanyang Technological University</li> </ul>	<b>Singapore</b>	Joint publications
4	<ul style="list-style-type: none"> <li>• King Saud University</li> <li>• Majmaah University</li> <li>• Taif University</li> </ul>	<b>Saudi Arabia</b>	Joint publications
5	<ul style="list-style-type: none"> <li>• Wolaita Sodo University</li> <li>• Jimma University</li> <li>• Haramaya University</li> </ul>	<b>Ethiopia</b>	Joint publications
6	<ul style="list-style-type: none"> <li>• 7<sup>th</sup> of October University</li> <li>• Misurata University</li> </ul>	<b>Libya</b>	Joint publications
7	<ul style="list-style-type: none"> <li>• University of Hong Kong</li> </ul>	<b>Hong Kong</b>	Research Collaboration
8	<ul style="list-style-type: none"> <li>• Incheon National University</li> <li>• Korea Aerospace University</li> <li>• Korea Institute of Energy Research</li> <li>• Hanyang University</li> <li>• Kyung Hee University</li> <li>• Dong-A University</li> <li>• Daegu University</li> <li>• Dongguk University</li> </ul>	<b>Republic of Korea</b>	MoU & Joint publications
9	<ul style="list-style-type: none"> <li>• Ton Duc Thang University</li> <li>• Duy Tan University</li> <li>• Van Lang University</li> </ul>	<b>Vietnam</b>	Joint publications
10	<ul style="list-style-type: none"> <li>• University of Malaya</li> </ul>	<b>Malaysia</b>	Joint publications
11	<ul style="list-style-type: none"> <li>• Shanghai Jiao Tong University</li> <li>• Shantou University</li> </ul>	<b>PR China</b>	Joint publications
12	<ul style="list-style-type: none"> <li>• Prince of Songkla University</li> <li>• Maejo University</li> </ul>	<b>Thailand</b>	Joint publications
13	<ul style="list-style-type: none"> <li>• K.U. Leuven Laboratory of Molecular Cell Biology</li> </ul>	<b>Belgium</b>	Joint publications

14	• Max Planck Institute for Molecular Biology	<b>Germany</b>	Joint publications
15	• National Institute for Materials Science, Tsukuba • Toyohashi University of Technology, Toyohashi, Aichi • Kobe University, Research Centre for Inland Seas, Kobe.	<b>Japan</b>	Joint publications
16	• Contec Global Agro Limited, Abuja	<b>Nigeria</b>	Joint publications
17	• University of Yaoundé I, Yaoundé • University of Douala, Douala	<b>Cameroon</b>	Joint publications
18	• University of Fort Hare, Alice. • North-West University, Mmabatho	<b>South Africa</b>	Joint publications
19	• University of Quebec, Quebec • Cape Breton University, Department of Chemistry, Nova Scotia.	<b>Canada</b>	Joint publication
20	• Nile University, Giza • Egyptian Atomic Energy Authority (EAEA), Cairo • Ministry of Health and Population, Faiyum • Cairo University, Cairo • Helipolis University for Sustainable Development, Cairo • Military Technical College (MTC), Egyptian Armed Forces, Cairo	<b>Egypt</b>	Joint publication
21	• Asia University, Taichung. • National Sun Yat-Sen University	<b>Taiwan</b>	Joint publication
22	• The International University of Management • Destinies Biomass Energy and Farming Pty Ltd	<b>Namibia</b>	Joint publication
23	• Instituto de Alta Investigaci'on, Universidad de Tarapaca, Arica	<b>, Chile</b>	Joint publication
24	• Department of Biology, College of Art and Education, Sohar University	<b>Sultanate of Oman</b>	Joint publication

### 13. Books Published

1. Kidth; E}. jh[{:j;jPd; (2013) ‘**Ez;ZapupaYk; Neha;jLg;ghw;wypaYk;**’ vd;w KJepiy gl;l tFg;gpw;fhd ,e;E}y; jkpopy; vOjg;gl;L jkpo;ehL khepy cah;fy;tp kd;wj;jpduhy; (**TANSCHE**, Chennai – 600 005) ntspaplg;gl;Ls;sJ (464 gf;fq;fs;).
1. **N. Thajuddin** (2013) **Microbiology & Immunology** book in Tamil (Post Graduate level); Publisher: Tamilnadu State Council for Higher Education (**TANSCHE**), Chennai – 600 005. (464 pages).
2. **Fungicides: Beneficial and Harmful aspects** (2011) ISBN: 978-953-308-508-1 - **N. Thajuddin** (Editor) - **INTECH** Open Access Publisher. [www.intechweb.org](http://www.intechweb.org), 51000 Rijeka, Croatia. 266 pages.
3. **Fungicides for Plant and Animal Diseases**, (2012) ISBN 978-953-307-804-5 **D. Dhanasekaran., N. Thajuddin** and **A. Panneerselvam** (Editors) –**INTECH** Open Access Publisher. [www.intechweb.org](http://www.intechweb.org), 51000 Rijeka, Croatia.298 pages.
4. **Antimicrobials: Synthetic and Natural Compounds** (2015) ISBN No: 9781498715621- CAT# K25354- **Dhanasekaran. D., Thajuddin, N.** and **Panneerselvam, A.** (Editors.), **CRC press**, Tailor & Francis Group, Boca Raton, FL, USA, 520 pages.
5. **Biological Techniques: A Laboratory Manual** (2016) ISBN No.978-93-80622-41-5 **N. Thajuddin**, T. Senthil Kumar and D. Dhanasekaran. Yazhini Publications, Cuddalore 199 pages.
6. **Algae – Organisms for Imminent Biotechnology** (2016) ISBN No. 978-953-51-2432-0, Print ISBN No. 978-953-51-2431-3 **N. Thajuddin & D. Dhanasekaran.** (Editors) **INTECH** Open Access Publisher.[www.intechweb.org](http://www.intechweb.org), 51000 Rijeka, Croatia. Pages 340.
7. **Microbial Biofilms – Importance and Applications** (2016) ISBN 978-953-51-2436-8, Print ISBN 978-953-51-2435-1. **D. Dhanasekaran and N. Thajuddin** (Editors) **INTECH** Open Access Publisher. [www.intechweb.org](http://www.intechweb.org), 51000 Rijeka, Croatia. Pages 522.
8. **Laboratory Methods in Biology** (2018) ISBN No.978-93-87360-13-6. **N. Thajuddin**, **D. Dhanasekaran**, **G. Muralitharan** and **T. Senthil Kumar**. Jayam Publications, Tiruchirappalli – 620 023. 240 pages.
9. **Phytonanotechnology: Challenges and Prospects** (2020) ISBN No. 9780128223482. Editors: **N. Thajuddin** and Silvy Mathew, Publisher: **Elsevier**, Cambridge, MA 02139, USA. 354 pages.
10. **Molecular Techniques in Taxonomy to Biotechnology of Actinobacteria and Cyanobacteria – A Laboratory Manual** (2022) ISBN No. 978-93-91563-56-1. **G. Muralitharan, D. Dhanasekaran and N. Thajuddin**. Jayam Publications, Tiruchirappalli – 620023. 236 pages.
11. **Protocols for Cyanobacteria Sampling and Detection of Cyanotoxin.** (2023) ISBN-13:9789819945139. Editors: **N. Thajuddin**, **A. Sankaranarayanan** and **D. Dhanasekaran**. Publisher: **Springer Nature**, Singapore: 508 Pages.

### Conference Proceedings

1. Proceedings of National symposium on **Recent Trends in Biological Research**. (Eds.). **A. Panneerselvam .... N. Thajuddin.** A.V.V.M. Sri Pushpam College, Poondi – 613 503. 188pp (2004).

### **LAB MANUALS:**

No	Title	Publisher	Year
1	Manual of Techniques in Cyanobacterial Research	NFMC (as Co-author)	1992

2	Methods in Cyanobacterial Research	NFMC (as Co-author)	1999
3	Laboratory Manual on Microbial Technology	N. Thajuddin	2004
4	Microbiological Techniques – a laboratory manual	N. Thajuddin & Joseph Selvin	2008
5	rpg;gpf; fhshd; tsh;g;G njhopy;El;gtpay; Manual on “Oyster Mushroom Cultivation Technology” (in Tamil)	Kidth; E}. jh[{:j;jPd; & Kidth; j. jdNrfud; N.Thajuddin & D. Dhanasekaran	2010

#### 14. Patents filed / Granted:

No	Name of Product / Technology	Reference No.	Significance of the product	Author(s) responsible
1	Techno-economic drying of microalgae by <b>Frame Ooze Out Technique (FOOT).</b> <b>(Indian Patent)</b>	Application No: 201641042909 A Patent published on 30.12.2016.	Inexpensive microalgal biomass drying technology from 35,000 litre capacity Raceway Pond	Dr. N. Thajuddin Dr. D. MubarakAli Mr. E. Baldev Mr. C. Arutselvan
2	<b>Treading Homogenous Gas Phase Active Species for the Preparation Cyanobacterial Axenic Culture, A Jet (THAJ) method (Indian Patent)</b>	Application No. 201741043178 A Publication Date : 26/01/2018	An inexpensive process of developing axenic culture of unicellular cyanobacterium <i>Synechococcus elongatus</i> by treating ozone (O <sub>3</sub> ).	Dr. D. MubarakAli Dr. N. Thajuddin (Head) Mr. E. Baldev
3	<b>Microbial Bioconversion of Curcumin to Calebin – A (MBCC)</b> <b>(Indian Patent)</b>	201841006854 A Filed on : February 23, 2018 Published on: March 01, 2019.	A Method for the Microbial Bioconversion of Curcuminoids to Calebin-A using Microorganisms for large Scale production.	Dr. M. Majeed, Mrs Anju Majeed, Dr. N. Thajuddin, et al
4	<b>Antimicrobial activity of Bioactive Compounds and their Derivatives (ABCD).</b> <b>(US Patent)</b>	Appl.No. US 15/990972 Filed date: 29 May 2018. Published Date: 5 <sup>th</sup> December 2019	Antimicrobial effects of bioactive compounds from <i>Curcuma species</i> (Curcuminoids, Calebin A and their derivatives) against <i>EAEC</i> , <i>ETEC</i> and <i>Pleisiomonas sp.</i>	Mrs Anju Majeed, Dr. M. Majeed, Dr. K. Nagabhushanam, Dr. N. Thajuddin et al.
5	<b>A Process and System for Wastewater Treatment and Sludge Minimization (WTSM)</b> <b>(Indian Patent)</b>	Application No. 202141019297 A Filed date: 27th April 2021. Published date: 7th May 2021	The present invention relates to the field of wastewater treatments, more particularly to a system for sludge minimization to provide 100% reuse of treated water into toilet flushing, gardening,	Sheik Syed Ishack, K.A., Panneerselvam, A., Ambikapathy, V., Thajuddin, N., et al.

			agricultural purposes and ground recharge	
6	A system for producing Anti-parasitic Compounds and Derivatives from Marine Hypotrichous Ciliates (ACDC) (Indian Patent)	Application No. 202241045547 A Filed date 9 <sup>th</sup> August 2022 Publication Date : 19 <sup>th</sup> August 2022	The present invention relates to a system for producing anti-parasitic compounds (Sesqui terpenoids) and derivatives from Marine Hypotrichous Ciliates	Dr. N. Anandakumar and Dr. N. Thajuddin
<b>Patent Granted</b>				
1	Microbial Bioconversion of Curcuminoids to Calebin-A (MBCC). (US Patent)	Patent No. <b>11,299,706 B2</b> Date of Patent granted : <b>April 12, 2022</b>	A Method for the Microbial Bioconversion of Curcuminoids to Calebin-A using Microorganisms for large Scale production	Dr. M. Majeed, Mrs Anju Majeed, Dr. N. Thajuddin, et al.

#### 14 a: Technologies / products Transferred

Name of Technology/products	Revenue Generated / Benefits Accrued	Year
Phycocyanin pigment (blue colourant) from Marine cyanobacteria Research Team: Professor G. Subramanian (Head), Dr. L. Uma, Dr. N. Thajuddin et.al.	Initial part of Rs 1 Lakh Received from ABL Biotechnologies, Chennai	2001

#### 15. International Collaborations under Memorandum of Understanding (MoU)

S. No	Name of Collaborator	Name of Institutions / Universities involved	Date, Month & Year
1	<b>Dr. Jee-Eun Huh</b>	CEO Beautyline Co. Ltd, Incheon, Republic of Korea	30 <sup>th</sup> June 2015
2	<b>Prof. Taejun Han</b>	CEO, Institute of Green Environment Research Incheon National University Incheon, Republic of Korea	30 <sup>th</sup> June 2015
3	<b>Prof. Jung-Wan Kim</b>	Professor & Head Division of Bioengineering Incheon National University Incheon, Republic of Korea	30 <sup>th</sup> June 2015
4	<b>Prof. Sang-Yul Lee</b>	Director Center for Surface Technology and Application Korea Aerospace University Republic of Korea	2 <sup>nd</sup> July 2015

5	Prof. Jie Chen	Shanghai Jiao Tong University Shanghai, P.R. China	2 <sup>nd</sup> December, 2016
6	Dr. G. Agoramoorthy	Distinguished Research Professor College of Pharmacy and Health Care Tajen University, Taiwan	23 <sup>rd</sup> June 2018

#### 16. Industrial Consultancy Assignment Undertaken

S. No.	Client/Organization Name	Nature of Assignment	Duration	Value (in Rs.)
1	Dr. V. Sivasubramanian, Director, Phycospectrum Consultant Private Limited, Anna Nagar Chennai - 600 040	<b>Honorary Consultant</b> Incorporation of Pulsed Magnetic Field for Higher Lipid production by Microalgae in large scale	2016 - 2020	-
2	Dr. Muhammed Majeed Founder & Managing Director Sami Labs Limited, Peenya Industrial Area, Bangaluru - 560058	<b>Honorary Consultant</b> Extraction of Calebin-A from Turmeric. Filed two International Patents	2016 – 2021	-
3.	Mr. C. Nagesh Prabhu Co-Founder & Director, Zigma Global Environ Solutions Pvt. Ltd 24, Kalaimagal Kalvi Nilayam Road, Erode 638012.	<b>Principal Investigator</b> Bioremediation of Municipal Solid Waste Leachate using microalgae <b>MoU signed on 29.1.2022</b>	2022	7,24,500/-
4.	Mr. RA. Kamaraj Managing Director Kwalitee Algae Farms 138/B7B, Thalapatti Village Manmangalam Taluk Karur District – 639 003	<b>Principal Investigator</b> Waste water treatment utilizing Microalgae <b>MoU Signed on 6.10.2022</b>	2022	4,48,500/-
5	Dr. Ilan Kuppusamy Founder and Director NanoFold India Inc. 3, Bellary Road, RMV Extension Sadashiva Nagar Bangalore – 560 080	<b>Project Convenor, CGOM</b> R&D, BSA CIST, Chennai. Development of New building materials using Exfoliated Graphite and Improve the Energy storage using Reduced Graphene <b>MoU Signed on 7.10.2024.</b>	2024	95,03,600/-
Total Amount				1,06,76,600/-

#### 17. Research Supervision:

	Guided	Guiding
P.G.	140	-

<b>M.Phil</b>	<b>31</b>	<b>-</b>
<b>Ph.D.</b>	<b>28* + 10**</b>	<b>3*</b>
<b>Post-Doctoral Level</b>	<b>15</b>	<b>-</b>

\*as direct guide \*\*as co-guide

**18. Ph.D. Degree Awarded:** 38 Ph.D Candidates including 10 candidates as Co-guide.

**19. Ph.D. Guiding:** 3 candidates

**20. Post Doctoral Guidance :** 15 post doctoral candidates

**21. M.Phil. Guided:** 31 candidates

**22. M.Sc. Projects Guided :** 142 candidates

**23. Tamilnadu State Council for Science & Technology (TNSCST) :** 11 candidates

**Grants for M.Sc Student Research Projects**

**24. Papers presented and attended in Conferences/ Seminars/Symposia :**

**(58 Papers have received Best Paper Awards / Cash Prize)**

International level Conferences/ Symposia : 50 conferences / Symposia with the total of 119 papers

National level Conferences/Symposia/: 97 conferences / Symposia with the total of 387 papers

**25. Resource person in the refresher courses /**

**Webinars/ Seminar/Symposia/Conferences:** 442 events

**26. Chaired Technical Sessions in Symposia/ Conferences/Seminars :** 43 events

**27. Graduation Day Addresses:**

1. As a Chief Guest delivered **Graduation Day address** in **Jairams College of Arts & Science & Jayaram College of Education**, Karur – 639 003 on August 9, 2015.
2. As a Chief Guest delivered **Graduation Day address** in **Rajagiri Dawood Batcha (RDB) College of Arts and Science** & RDB College of Education, Papanasam - 614 205, Thanjavur on 16.3. 2017.
3. As a Chief Guest delivered 23<sup>rd</sup> **Graduation Day address** in **Kamban College of Arts Science** for Women, Thiruvannamalai – 606603 on 14.10. 2023.
4. As a Chief Guest delivered **Graduation Day address** in **Cauvery College for Women**, Tiruchirappalli – 620 018 on 25. 2. 2024.
5. As a Chief Guest delivered **Graduation Day address** in **Naina Mohamed College of Arts Science**, Rajendrapuram, Aranthangi – 614 616 on 26.2. 2024.
6. As a Chief Guest delivered **Graduation Day address** in **Jairams College of Arts Science**, Karur – 639 003 on 31.3. 2024.
7. As a Chief Guest delivered **Graduation Day address** in **Government Arts College (Autonomous)** Karur – 639 005 on 1.3. 2025.

- As a Special Guest delivered Felicitation Address in the Second Convocation Ceremony of As-Salam Islamic College, Inamkulathur, Tiruchurappalli – 620 009 on 13th July 2025.

## 28. **Resource person in the Training programme conducted: 12 programs**

### 29. **Overseas Students Research Training:**

- Ms. Madeleine Nina Love Ngo Mback**, Ph.D. Student of Biochemistry, **University of Yaounde, Cameroon** have undergone research training for six months from October 2017 to April 2018 through **C V Raman International Fellowship for African Researchers (DST, Govt. of India)**.
- Mrs. Wafa'a Al-Rashed**, Associate Research Scientist, Kuwait Institute for Scientific Research Aquaculture, Fisheries and Marine Environmental Department, P.O. Box 1638, 22017, Salmiyah, Kuwait, have underwent a special training on basics and applied aspects of Marine Cyanobacteria and instrumentation techniques during 4 - 14 February, 2019.

### 30. **Research Training to Indian Researchers.: 9 candidates**

#### 31. **Membership in Professional Societies**

- Association of Microbiologist of India., Tiruchirappalli unit (Member 1989-1999).
- Seaweed Research and Utilization Association - Life Member from 2001
- Member in the Editorial Board- Seaweed Research and Utilization Journal.
- Indian Phycological Society, New Delhi (from 2006).
- Indian Association of Applied Microbiologists - Life Member – from August 2010
- National Academy of Biological Sciences - Life member - from November 2010
- Indian Science Congress Association - Life Member - from June 2012
- Mycological Society of India - Life Member - from 28.2.2014
- Society for Plant Research (Life Member – from 21.9.2016)
- Member in the Editorial Board – Vegetos – An international Journal of Plant Research & Biotechnology (Thompson Reuter IF- 0.042, Scopus IF-0.18)
- Swamy Botanical Club - Life Member from 19.9.2019
- The Fisheries Technocrats Forum - Life Member from 31.10.2020
- Microbiologists Society of India (MBSI) - Life Member from August 2021
- Society of Chemical & Synthetic Biology - Life Member from September 2022
- Indian Association of Biomedical Scientists (IABMS) - Life Member from November 2022.
- Periyar University Alumni Assaciation (PUAA) – Life member from January 2022.
- Biotech Research Society, India (BRSI) – Life Member from May 2025.

### 32. **Awards, Medals and Other Honours received:**

#### **Elected Fellow**

##### **International**

- Elected **Fellow of Royal Society of Biology (FRSB) London** from 1<sup>st</sup> January 2022
- Elected **Fellow of Linnean Society of London (FLS)** from 24<sup>th</sup> May, 2022

##### **National**

- Elected **Fellow of National Academy of Biological Sciences (FNABS)** from 2020.

4. Elected **Fellow of Mycological Society of India (FMSI)** for the year 2021.
5. Elected **Fellow of Microbiologists Society, India (FMBSI)** for the year 2022

#### **Life Time Achievement Awards**

1. Received **Life Time Achievement Award** for the year 2022 from the **Society of Chemicals and Synthetic Biology**
2. Received **AVRS Life Time Achievement Award** (Phycotechnology) for the year 2024 from **Antiviral Research Society**, (AVRS) during the “AVRS-International Conference on Drug Design, Discovery and Development (AVRS-ICDDD-2024)” held on 29th August 2024 at Tagore College of Pharmacy, Chennai, India.
3. Received **Life Time Devotion Award** (Microbiology) from **Microbiologist Society, India (MBSI)** during the “**International Conference on Microbial Innovations for Sustainable Agriculture and Medical Applications**” held at School of Biological Sciences, Madurai Kamaraj University, Madurai – 625 021 on 16<sup>th</sup> December 2025.

#### **Other Awards**

1. Awarded **Merit Certificate** from **Indian Botanical Society** (1989) in the XI Indian Botanical Conference held at Bharathidasan University, Tiruchirappalli during January 2 - 4, 1989.
2. Received **DBT Overseas Associateship Award** [Long-term] (1995-1996) from the **Dept. of Biotechnology, Govt. of India**.
3. Received **Certificate of Appreciation** from **Bharathidasan University** for the research work leading to the development of valuable new technologies in the area of Marine Cyanobacteria (2001).
4. Received **Professor Probir Chatterjee Memorial Lecture Award** 2008, from **P. Chatterjee Research Foundation, University of Calcutta**, Kolkata on 5<sup>th</sup> December, 2008.
5. Received **Best Research Advisor Award** from **Eco Club, H.H. The Rajah's Govt. College, Pudukkottai** on 8<sup>th</sup> February 2013
6. Received **Dr. G. S. Venkataraman Memorial NABS-Best Scientist Award** of **National Academy of Biological Sciences** for the year 2014.
7. Received **Tamil Nadu Scientist Award (TANSA-2014)** in Biological Sciences from **Tamil Nadu State Council for Science & Technology**, Government of Tamil Nadu, Chennai.
8. Received **BSR - One Time Grant** from **University Grants Commission**, New Delhi (2015–2016).
9. Received **Professor T.V. Desikachary Endowment Lecture Award** 2017, from **CAS in Botany, University of Madras**, Chennai on 10<sup>th</sup> January, 2017.
10. Received **Prof. M.S. Swaminathan NABS-Leadership Award** for the year 2017 from **National Academy of Biological Sciences, Pondicherry University**, Puducherry on September 27, 2019.
11. Received **Prof. V. Krishnamurthy Endowment Lecture Award** 2018 of **Seaweed Research and Utilization Association**, Madras Christian College (MCC), Chennai - 600 059, Tamil Nadu, India on 21<sup>st</sup> September 2018
12. Received **K. Chidambaram Memorial Annual Award – 2019** of **Fisheries Technocrat Forum**, Chennai for the significant and outstanding contributions in Plant Microbiology on 31<sup>st</sup> October 2020
13. Received **National Level Senior Scientist Award** from **Microbiologists Society, India (MBSI)** for the year 2021.
14. Received **Dr. V. Agnihothrudu Memorial Lecture Award** of **Mycological Society of India (MSI)** during 49<sup>th</sup> Annual meeting of MSI, Bilaspur, Chhattisgarh on 28<sup>th</sup> November, 2022.

15. Received prestigious **M.K. Nambiar Memorial Oration Award with Gold Medal** from **Indian Association of Biomedical Scientists (IABMS)** during 43<sup>rd</sup> Annual Conference of IABMS at Sri Sri University, Cuttack, Odisha, India on 19<sup>th</sup> December, 2022.
16. Received **NABS Foundation Day Lecture Award – 2023** from **National Academy of Biological Sciences (NABS)** on 10<sup>th</sup> March 2023.
17. Received **Eminent Scientist Award** from the International Conference on Recent Advances in **Animal Biology and Conservation**, University College, Thiruvananthapuram, Kerala on December 21, 2023
18. Received **Roger Stanier International Research & Academic Excellence Award 2024'** from the **International Multidisciplinary Research Foundation (IMRF) Executive Council** and IMRF International Awards Committee 2024 during United Nations Public Service Day 2024 and the "International Symposium on Public Service through Education" organized by IMRF Institute of Higher Education and Research, Vijayavada, Andhra Pradesh, India on June 22<sup>nd</sup>, 2024
19. Received **Community Service Award** from **Jamal Mohamed College Alumni Association** organized by its Chennai Chapter at The New College, Chennai on 23<sup>rd</sup> November 2024.
20. Received **National Life Empowerment Award 2025** from **SYPA Educational Empowerment Trust**, Chennai on 4<sup>th</sup> January 2025
21. Received **Prof. P.C. Jain Memorial Award** for the year 2025 from **Mycological Society of India (MSI)**, during **52<sup>nd</sup> Annual Meeting and National Conference on "Fungi for Bharath: Fungi for Better Health, Agriculture, Remediation and Technology"** University of Delhi, Delhi on November 20, 2025.
22. Received **Dr N Anand Endowment Lecture Award** from Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai on 2<sup>nd</sup> February November, 2026.
23. Listed under **Top 2% Scientist of the World** in Microbiology published by **Stanford University, USA** (2020, 2021, 2022, 2023 & 2024, 2025).

### **33. Refresher courses / Orientation Courses /Training programs attended: 14 programs**

### **34. Conferences / Symposia / Refresher Course/ Summer School/ Workshops Organized:**

1. Organized **National Symposium on Marine Algal Research in India – Prospect & Retrospect** jointly with Seaweed Research & Utilization Association at Bharathidasan University, Tiruchirappalli – 620 024, August 16 – 18, 2001 - As **Organizing Secretary**.
2. Organized **National Symposium on Microalgal Biotechnology**, Bharathidasan University, Tiruchirappalli – 620 024, March 11-13, 2004 – As **Organizing Secretary**.
3. Organized **UGC Sponsored Refresher Course in Microbiology** – Theme: **Recent Advances in Microbial Technology**, during November, 1 – 21, 2004 – As **Course Co-Ordinator**.
4. Organized National **Symposium on Current Scenario in Microbial Technology** Bharathidasan University, Tiruchirappalli – 620 024 during January 3 – 5, 2008 – As **Organizing Chairman**.
5. Organized National Symposium on **Microbial Biodiversity, Bioremediation and Biotechnology**, jointly with the Department of Microbiology & Biotechnology, Cauvery College, Tiruchirappalli during July 28 & 29, 2008 – As **Organizing Chairman**.
6. Organized **UGC Sponsored Special Summer School in Biosciences** for College & University Teachers during July 22 to August 11, 2008 – As **Course Co-Ordinator**.
7. Organized **"Seminar on Immunology & Immunotechnology"** jointly with Indian Immunological Society, New Delhi, at Bharathidasan University, during September 18 & 19, 2009 – As **Organizing Secretary**.

8. Organized two days' workshop on "**Advanced Molecular and Immunological Techniques in Biology**" jointly with Department of Zoology, Government Arts College for Women, Pudukkottai during 8 & 9<sup>th</sup> October, 2009.
9. Organized "**INSPIRE (Innovations in Science Pursuit for Inspired Research) Internship Programme** sponsored by the DST (Govt. of India) for the X to XII standard students during 11- 15<sup>th</sup> May, 2010 at Bharathidasan University as Course **Co-ordinator**.
10. Organized 2 days' workshop (in 2 batches) on **Entrepreneurship programme of Oyster Mushroom cultivation technology for SC/ST population in and around Tiruchirappalli District** (Sponsored by DBT, Govt. of India) during 19<sup>th</sup> – 22<sup>nd</sup> May 2010 as **Co-ordinator**.
11. Organized one day workshop on "**Molecular tools, techniques and applications**" jointly with Research and Development Cell, A.V.C. College Mannampandal, Mayiladuthurai – 609 305 on 29<sup>th</sup> January, 2011.
12. Organized "**INSPIRE (Innovations in Science Pursuit for Inspired Research) Internship Programme** sponsored by the DST (Govt. of India) for the XI standard students during 16- 20<sup>th</sup> May, 2011 at Bharathidasan University as Course **Co-ordinator**.
13. Organized **Indo-UK conference on "Shrimp aquaculture: Challenges and Innovative solutions"** funded by Royal Society, London on January 25 - 26, 2012 at Bharathidasan University, Tiruchirappalli, India – **as Convenor**
14. Organized two days "National seminar on **Microbes and Human Welfare**" jointly with the National Academy of Biological Sciences at Bharathidasan University, Tiruchirappalli - 620 024 on 20 & 21 July 2013 as **Co-ordinator**.
15. Organized National Conference on "**New Opportunities and Challenges in Microbial Research**" (MICREC-13) Bharathidasan University, Tiruchirappalli – 620 024 during September 5 – 6, 2013 – **As Organizing Chairman**.
16. Organized "**INSPIRE (Innovations in Science Pursuit for Inspired Research) Internship Programme** sponsored by the DST (Govt. of India) for the X1 standard students during 26- 30<sup>th</sup> December, 2013 at Bharathidasan University - **As Course Co-ordinator**.
17. Organized three days "**National Conference on Progress in Algology in the Indian Context**" jointly with the Krishnamurthy Institute of Algology, Chennai at Bharathidasan University, Tiruchirappalli – 620 024 during September 19 – 21, 2014 - **As Convenor**.
18. Organized one-day workshop on "**Molecular Techniques**" jointly with PG & Research Department of Microbiology, STET Women's College, Mannargudi on 10<sup>th</sup> January, 2015.
19. Organized one-day workshop on "**DNA Finger Printing**" jointly with PG & Research Department of Botany & Microbiology, AVVM Sri Pushpam College, Poondi - 613 503, Thanjavur District on 3<sup>rd</sup> October, 2015.
20. Organized one-day workshop on "**Advanced Molecular Techniques - 2015**" jointly with Department of Biochemistry, Biotechnology and Microbiology, Bharathidasan University Constituent College for Women, Orathanadu – 614 625, Thanjavur District on 31<sup>st</sup> October, 2015.
21. Organized **UGC-Human Resource Development Centre (HRDC) Sponsored Refresher Course in Life Sciences**, during March, 3 – 23, 2016 – **As Course Co-Ordinator**.
22. Organized **UGC-Human Resource Development Centre (HRDC) Sponsored Refresher Course in Life Sciences**, during November 8 - 28, 2016 – **As Course Co-Ordinator**.
23. Collaborative workshop on "**Standards for Food and Water Quality examination with emphasis on Microbiological Techniques of detection, identification and enumeration of human pathogens**" organized by the Department of Microbiology, M.R. Government Arts College, Mannargudi – 614 001 during 28 - 29 December, 2016 – **As Collaborator**.
24. Co-organized two days **National Conference on "Recent Advances in Modern Biology and Rural Development" (RAMBARD-2017)** jointly organized by the PG & Research

Department of Botany & Microbiology, AVVM Sri Pushpam College, Poondi – 613 503, Thanjavur Dt. on October 6 & 7, 2017 - As Co-Organizer.

25. Organized DST-PURSE Sponsored **Workshop on “Edible Mushroom Cultivation for Self Employment of Rural Population”** on 22<sup>nd</sup> and 23<sup>rd</sup> February 2018 – As Convenor.
26. Organized UGC-Human Resource Development Centre (HRDC) Sponsored Refresher Course in Life Sciences, during June 19 – July 9, 2018. – As Course Co-Ordinator.
27. Organized 4 days Training programme on “**Innovative Technology of Oyster Mushroom cultivation for self-employment of Rural population**” (Sponsored by TNSCST, Chennai) ) during February 18 – 21, 2019 as Convenor.
28. Organized National Seminar on Microbes in Women Health jointly with the Trichy Obstetric and Gynaecological Society (TRIOGS) on **July 11-12, 2019** as Organizing Chairman.
29. Organized DST-PURSE Sponsored **International e-Conference on Cyanobacterial and Algal Biotechnology (CAB-2020)** on 18 – 20 December 2020 as Organizing Secretary.
30. Organized a **National Level Seminar on “Future of Algal Biotechnology”** jointly with The Microbiologists Society of India (MBSI) on June 18, 2022 at the Department of Microbiology, Bharathidasan University, Tiruchirappalli, Tamil Nadu as Organizing Chairman.
31. Organized an **International Seminar on Recent Trends in Biological Sciences** under **Crescent Global Outreach Mission (CGOM) R & D**, B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai -600048 in association with the Microbiologists Society, India (MBSI) on February 13, 2024 - as Convener
32. Organized TNSCST sponsored **International Conference on Electrochemistry: Innovations in Supercapacitors and Batteries** under **Crescent Global Outreach Mission (CGOM) R&D**, B. S. Abdur Rahman Crescent Institute of Science and Technology, Chennai -600048 on September 20 - 21, 2024 – as Convener

### **35. All India Radio Talk:**

1. Gave a talk on “**Marine Biotechnology-A Potential Unexploited**” broadcasted on 14.09.1989, 8.00 pm. (Ref. No. TIR-15(5) 89-P3/Y dated 28-08-1989).
2. Gave a talk in Tamil on “**Ez;ghrpfspd; gad;fs;”**; (**Applications of Microalgae**) broadcasted on 11.04.2004, 7.00 am. (Ref. No. TIR-15(5)/2004-P1/NF E/972 dated 29-03-2004).
3. Gave a talk in Tamil on **raNdhghf;Bhpad;fspsy; caph;njhopy;El;gq;fs; - Neh;Kfk; (Cyanobacterial Biotechnology)** broadcasted on January 05, 2006, 8.45 am. (Ref. No. TIR-16(1)/2005-P3/SNT/6744 dated December 15, 2005).
4. Gave a talk in Tamil on “**khw;W vhpngUs; njhopy;El;gk;”** (**Alternate Biofuel Technology**) broadcasted on February 18, 2016, 7.00 am (Ref. No. TIR-15(5)/2015/S&T dated 8 January, 2016).

### **36. Acted as Doctoral Committee Member to the following Ph.D Candidates: 170 candidates**

[Doctoral Committee member in Bharathidasan University; Periyar University, Salem; Gandhigram Rural University, Gandhigram; SASTRA Deemed University, Thanjavur; SRM University, Kattankulathur; Vellore Institute of Technology (VIT) Vellore; Alagappa University, Karaikudi; Karpagam University, Coimbatore]

### **37. Popular articles (in Tamil & English) : 23 articles**

### **38. Other Academic Activities:**

1. **President**, Bharathidasan University Alumni Association, Tiruchirappalli (2007 - 2011).
2. **Editorial Committee Member** – Seaweed Research & Utilization Journal.

3. **Editorial Committee Member** – Journal of Algal Biomass and Utilization.
4. **Member –Internal Quality Assurance** Cell (IQAC) Bharathidasan University.
5. **Executive Member** in Association of Microbiologists of India, Tiruchirappalli Unit (1989-1999).
6. **Member - Executive Council**, National Academy of Biological Sciences (NABS)
7. **Member - University UG/PG Microbiology Inspection Commission**, Bharathidasan University
8. **Chairman, Board of Studies in Microbiology**, Bharathidasan University. (from 2007- June 2015)
9. **Chairman, Board of Studies in Microbiology**, Alagappa University, Karaikudi (from March 2016 – February 2019).
10. **Member Secretary, Institutional Biosafety Committee** (IBSC) Bharathidasan University (from 2016 – 2022).
11. **Member Secretary, Institutional Ethical Committee** (IEC) Bharathidasan University (from 2018 – 2022).
12. **Member in Board of Studies** in Periyar University, Salem; Alagappa University, Karaikudi; Madurai Kamaraj University, Madurai; Thiruvalluvar University, Vellore; Bharathiar University, Coimbatore; Gandhigram Rural Institute, Deemed University, Gandhigram, Dindigul District; Kerala University of Fisheries and Ocean Studies, Kochi, Kerala; Mother Teresa Women's University, Kodakanal; Pondicherry University, Puducherry; AVVM Sri Pushpam College (Autonomous) Poondi, Thanjavur Dt.; Dr. G.R. Damodaran College of Science, Coimbatore; Jamal Mohamed College, Tiruchirappalli; National College, Tiruchirappalli; Auxillium College, Vellore; Lady Doak College, Madurai; AVC College, Mayiladuthurai; Thassim Beevi Abdul Kader College for Women, Kilakarai, Ramnad District; Srimad Andavan Arts & Science College, Tiruchirappalli; Vivekananda College, Tiruchengode; KSR College, Tiruchengode; Selvam Arts & Science College, Namakkal; Government Arts College, Karur, J.J. College of Arts & Science, Pudukkottai; Bishop Heber College, Tiruchirappalli, Cauvery College, Tiruchirappalli.
13. **Examiner – Ph.D. Thesis evaluation / Viva voce - University of Madras**, Chennai; Madurai Kamaraj University, Madurai; Manonmaniam Sundaranar University, Thirunelveli; Annamalai University, Chidambaram; Bharathiar University, Coimbatore; Periyar University, Salem; Alagappa University, Karaikudi; University of Calicut, Calicut; Kerala, University of Kerala, Tiruvananthapuram, Kerala; Pondicherry University, Puducherry; Jamia Millia Islamia University, New Delhi; Bundelkhand University, Jhansi; University of Mysore, Mysore; University of Calcutta, Kolkata; Jawaharlal Nehru Technological University, Hyderabad; Anna University, Chennai; VIT University, Vellore; SRM University, Katankulathur; Gauhati University, Assam; Berhampur University, Odisha; Noorul Islam University, Kumarcoil; Bangalore University, Bangalore; Sri Venkateswara University, Tirupathi; Mother Teresa Women's University, Kodakanal; Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore; Punjabi University, Patiala, Punjab; Punjab University, Chandigarh, Punjab; Rastrasant Tuhadoji Maharaj Nagpur University, Nagpur; North Maharashtra University, Jalgaon, Maharashtra. Savitribai Phule Pune University, Pune; Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra; North Orissa University, Odisha; JAIN (Deemed-to-be University), Bengaluru, University of Mumbai, Mumbai, Yenepoya (Deemed to be University) Mangalore, C.G. Bhakta Institute of Biotechnology (Deemed to be University), Surat, Mangalore University, Mangalore, Thiruvalluvar University, Vellore, Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj, U.P, Institute of Advanced Study in Science & Technology (IASST), Guwahati, Assam, Visva-Bharati, Santiniketan. The University of Burdwan, Burdwan, West Bengal. Jawaharlal Nehru University, New Delhi, Banaras Hindu University, Varanasi.
14. **University Representative to the Academic Council**, Govt. Arts College (Autonomous), Kumbakonam (2006 - 2008), Holy Cross College (Autonomous), Tiruchirappalli (2015 – 2017), Government Arts College, Karur (2017 – 2020)
15. **Member - Research Advisory Committee**, Ponnaiyah Ramajeyam College of Arts and Science, Thanjavur.

16. **Member – Research Advisory Committee** – Vivekananda Institute of Algal Technology, RKM Vivekanandha College, Mylapore, Chennai.
17. **University Nominee to the College Committee** of National College, Tiruchirappalli - 620 001 for a period of three years (8.1.2008 – 7.1.2011).
18. **Member, Expert committee** for evaluation of research projects on Microbiology, University Grants Commission (UGC), New Delhi – 110 002 – December 29, 2014
19. **Member – Mid-term monitoring committee (UGC)** - A Centre with Potential for Excellence in Particular Area (CPEPA), Mysore University, Mysore.
20. **Member – Advisory Committee (UGC)** – SAP – DRS II (2014 - 2019) – Department of Molecular biology and Biotechnology, Tezpur University, Tezpur – 784 028, Assam.
21. **Chairman – Project Monitoring Committee** MoEF (Ministry of Environment, Forests & Climate Change (CT Division)- Department of Microbiology & Biotechnology, Bangalore University, Bangalore.
22. **Member - Executive Committee**, Bharathidasan University, Business Development Centre (BDU-BDC) from 9.7. 2015.
23. **Member - Executive Committee**, Institute of Entrepreneurs and Carrier Development (IECD) Bharathidasan University.
24. **University Nominee** to the College Committee of Tamilvel Ummahehwaranar Karanthai Arts College, Thanjavur – 613 002 for a period of three years (16.3.2016 – 15.3.2019).
25. **University Nominee** to the College Committee of St. Joseph's College, Tiruchirappalli - 620 002 for a period of three years (30.8.2016 – 29.8.2019).
26. **Member – Instrument Purchase Committee**, Bharathidasan University Constituent & Model Colleges, Bharathidasan University from 2.12.2016.
27. **University Nominee** to the Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur – 621 212 for a period of three years (25.1.2017 to 24.1.2020).
28. **University Nominee** to the College Committee of Jamal Mohamed College, Tiruchirappalli - 620 020 for a period of three years (30.1. 2018 – 29.1. 2021).
29. **Member - Institutional Animals Ethics Committee (IAEC)** for the period of 5 years from 27<sup>th</sup> April 2018.
30. **Member - Faculty Selection Committee and CAS selection committee** in Bharathidasan University, Periyar University, Alagappa University, Manonmaniam Sundaranar University and Thiruvalluvar University and few governments aided and self-financing colleges
31. **University Representative to the Academic Council** of Govt. Arts College for Women (Autonomous), Pudukkottai – 622 001 for the period of 3 years from 19.2.2019.
32. **Member – Research Committee**, Bharathidasan University for the period of 3 years from 6<sup>th</sup> August, 2019..
33. **University Representative to the Governing Body** of Cauvery College (Autonomous), Annamalai Nagar, Tiruchirappalli – 620 018.
34. **University Representative to the Academic Council** of Periyar E.V.R. College (Autonomous), Tiruchirappalli – 620 023 for the period of 3 years from 24.7.2019.
35. **UGC-Representative** for Extension of Autonomous status to Thanthai Hans Roever College (Autonomous) Perambalur (29.3.2021).
36. **Member – TANSA – 2020, 2021, 2022 & 2023** Award Selection committee (Biological Sciences) of Tamil Nadu State Council for Science & Technology (TNSCST), (19.11. 2021).
37. **Special Invitee** for Dept. of Science & Technology (DST) **SERB - POWER** (Promoting Opportunities for Women in Exploratory Research) for preliminary screening committee for Life Science projects (January 20 – 22, 2022).
38. **Member, DST – SERB - IRHPA Task Force** for establishing National Biosafety Level-3 Facilities (BSL / ABSL 3. (From 22 February, 2022).
39. **Hon'ble Governor-Chancellor nominee** - Member of the Planning Board of Bharathidasan University for a period of three years from 18.02.2022.
40. **Coordinator** - High Level Committee's Sub Committee of the Tamil Nadu Education Policy High Level Committee for the Topic: 11 "Research"
41. **Member** - High Level Committee's Sub Committee of the Tamil Nadu Education Policy High Level Committee for Higher Education Topic: – Vision, Structure and Function.

42. **Member** – Academic Council of Tamil Nadu Open University for three years from 16 October, 2024 to 15 October, 2027.

### 39 . Reviewer in International & National level journals

No.	Journal Name	Publisher
1	Arabian Journal of Chemistry	Elsevier
2	Applied Biochemistry & Biotechnology	Springer
3	Aquaculture	Elsevier
4	Bioprocess and Biosystems Engineering	Springer
5	Current Pharmaceutical Biotechnology	Bentham Science
6	Current Science	Current Science Association, India
7	Enzyme and Microbial Technology	Elsevier
8	Ecological Engineering	Elsevier
9	European Journal of Integrative Medicine	Elsevier –B.V.
10	Ecotoxicology and Environmental Safety	Elsevier –B.V.
11	Green Chemistry Letters and Reviews	Taylor & Francis
12	Indian Journal of Geo-Marine Sciences	CSIR
13	Industrial & Engineering Chemistry Research	ACS
14	IET Nanobiotechnology	IET, UK
15	Journal of Nanoparticle Research	Springer
16	Journal of Saudi Chemical Society	Elsevier –B.V.
17	Journal of Photochemistry & Photobiology B: Biology	Elsevier
18	Journal of Experimental and Integrative Medicine	-
19	Journal of Environmental Management	Elsevier
20	Materials Science and Engineering C	Elsevier B.V.
21	Materials Research Bulletin	Elsevier
22	Natural Product Research	Taylor & Francis
23	Nanomedicine: Nanotechnology, Biology, and Medicine	Elsevier
24	Process Biochemistry	Elsevier
25	Phykos	Phyco. Soc. of India
26	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	Elsevier
27	Seaweed Research and Utilization Journal	SRUA, India

### 39 A : Journal Editor

**EDITOR OF THE SPECIAL ISSUE - KAVAKA Journal (Mycological Society of India) VOLUME 60, ISSUE 2 (JUNE) 2024 ISSN 0379-5179 <http://www.kavaka.fungiindia.co.in>**

**40. Details of 16S rRNA, 18S rRNA, 28S rRNA, ITS regions, Group I Self Splicing Introns, cpcB genes, Calmodulin genes & Viral genes deposited in the GenBank (NCBI, EMBL & DDBJ)**

Sl. No.	Microbial taxa used for Sequencing with GenBank Accession Numbers. (NCBI, EMBL & DDBJ)	No. of sequences deposited
1	MARINE CYANOBACTERIA	58
2	FRESH WATER CYANOBACTERIA	162
	CYANOBACTERIAL PHYCOCYANIN GENES	6
3	Cyanobionts in LICHENS	3
4	Cyanobionts in CYCADS	18
5	<i>Cyanobionts in AZOLLA</i>	12
6	CYANOBACTERIAL GROUP I SELF SPLICING INTRONS	26
7	MICROCYSTIN SYNTHASE E (McyE) GENE	1
8	ACTINOBACTERIA	43
9	BACTERIA	162
10	SUBSURFACE BACTERIA	32
11	FUNGI (18S rRNA/ITS Sequences)	59
12	MICROALGAE (18S rRNA Sequences)	63
13	MICROZOOPLANKTON / PROTOZOANS	2
14	VIRAL SEQUENCES	8
<b>Total number of sequences deposited</b>		<b>655</b>

For Details Visit: <https://www.ncbi.nlm.nih.gov/nuccore/?term=Thajuddin>

**41. DNA Barcode of Fungi using ITS regions**

No.	Fungal isolates	Barcode ID (BOLD)
1	<i>Trichoderma viride</i> NTDMF01	NTDMF001-10
2	<i>Penicillium citrinum</i> NTLF05	NTMLF001-11
3	<i>Emericella nidulans</i> NTLF03	NTMLF002-11
4	<i>Aspergillus sp.</i> NTLF06	NTMLF003-11

5	<i>Fusarium sp.</i> NTLF07	NTMLF004-11
6	<i>Trichoderma sp.</i> NTLF01	NTMLF005-11

Ref.: [http://www.boldsystems.org/index.php/Public\\_SearchTerms](http://www.boldsystems.org/index.php/Public_SearchTerms)

**42. Whole genome sequence**  
**(ION\_TORRENT (Ion GeneStudio S5) WG Sequencer)**

No.	Cyanobacterial isolates	GenBank Accession Number
1	<i>Oscillatoria laete-virens</i> NRMCF 0139	PRJNA946290
2	<i>Oscillatoria cortiana</i> NRMCF 0138	PRJNA946287
3	<i>Oscillatoria splendida</i> NRMCF 0141	PRJNA943129
4	<i>Geitlerinema splendidum</i> NRMCF 0141	JASHIH0000000000
5	<i>Kamptonema cortianum</i> NRMCF 0138	JASNGF0000000000
6	<i>Geitlerinema calcuttense</i> NRMC-F 0142	NZ_JASVEJ0000000000
7	<i>Oscillatoria amoena</i> NRMC-F 0135	JASVEI0000000000
8	<i>Lymnospira fusiformis</i> NRMC-F 6962	JBFUXN0000000000
9	<i>Adonisia turfae</i> strain NRMC_F 0410	JBTMXM0000000000

**43. Establishments: at Bharathidasan University**

S. No.	Name of Centre/Unit established	Funding Agency	Quantum of grant	Year	Role
1	<b>National Repository for Microalgae &amp; Cyanobacteria – Freshwater (NRMC-F)</b>	<b>Dept. of Biotechnology (DBT) Govt. of India</b>	Rs. 1,75,35,000	2015	Principal Investigator
2.	<b>Microalgal mass cultivation unit</b>		Rs 5,00,000	2013	Principal Investigator
3.	<b>Mobile Taxonomy Laboratory</b>		Rs 10,00,000	2015	Principal Investigator
4.	<b>National Facility for Marine Cyanobacteria (NFMC)</b>		Played key role in the development of NFMC		
5.	<b>Mushroom cultivation unit</b>		Rs 1,00,000	2009	Principal Investigator

**44 . Number of Ph.D Thesis Adjudicated / Viva voce: One Hundred and Fifty Six (156) candidates**

**45. Details of Students guided by Prof. N. Thajuddin and their present positions**

Scholars	Name and Course Studied	Current Position	Contact Details
	<b>Dr. A. Nagasathy</b> (Ph.D)	Associate Professor & Head, Dept. of Zoology, Govt. Arts College for Women, Pudukkottai – 622 001.	vishu11@hotmail.com 9443476541, 7904970177
	<b>Dr. R. Shyam Kumar</b> (Ph.D)	Professor, Department of Biotechnology, Kamaraj College of Engineering and Technology, Virudhunagar – 625 701	kingshyam2003@gmail .com 8610058770
	<b>Dr. V. Thiagarajan</b> (Ph.D)	Associate Professor & Head, Dept. of Microbiology, Govt. Arts College for Women, Salem 636 008	9790491541
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	<b>Dr. A. Anandavalli</b> (Ph.D)	Associate Researcher, Faculty of Dentistry, Kuwait University, Safat-13110, Kuwait	drannie@hsc.edu.kw +965 24986945
	<b>Dr. H. Syed Jahangir</b> (Ph.D)	Associate Professor & Head Department of Botany, Jamal Mohamed College Tiruchirappalli 620 020	syedsanu@yahoo.co.in 9443817623
	<b>Dr. R. Nazeerullah</b> (Ph.D)	Assistant Professor in Microbiology, College of Medicine, Gulf Medical University, Ajman, U.A.E	dr.nazeer@gmu.ac.ae +91 9003915471/ +9710503201047
	<b>Dr. K. Moorthy</b> (Ph.D)	Professor in Medical Microbiology, School of Pharmacy and Medical Laboratory Science, Institute of Health, Bule Hora University, Post Box No.: 144, Bule Hora, Ethiopia.	moormicro@gmail.c om abbaikannamoorthy@ gmail.com 9442545967
	<b>Dr. M. Satheesh Kumar</b> (Ph.D)	Assistant Operation Manager, Badr Al Samaa Hospital P. O. Box 443, P. C. 112 Ruwi, Muscat Sultanate of Oman	shatheeshkumar.m@ gmail.com

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	<b>Dr. V. Thennarasu</b> (Ph.D)	Laboratory Support Technician Glasgow Caledonian University Glasgow, Scotland	thennarasumnr@gmail.co m 94432 66664
	<b>Dr. R. Praveen Kumar</b> (Ph.D)	Leader, Microalgae Section Bioresource Center Food and Production Division Danish Technological Institute Taastrup Denmark	prkr@teknologisk.dk +45 91981785
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	<b>Dr. A. Ilavarasi</b> (Ph.D)	Managing Director MOTT Bio Research Lab 16,Quide Milleth Street Sozhapuram, Ariyankuppam Pudhucherry – 605007 GSTIN: 34ACXPI1901M1ZC	ilavarasiasokaraja@gm ail.com 94864 16938
	<b>Dr. D. Vijayan</b> (Ph.D)	National Post-Doctoral Fellow CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram- 695019, Kerala	vijayan.mibi@gmail.co m 9865550200

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	<b>Dr. E. Baldev</b> (Ph.D)	Research Associate Research and Development Chennai Petroleum Corporation LTD. Manali, Chennai – 600 068	ballu.pnr@gmail.com 9894403113
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	<b>Dr. R. Aravind Prasanth</b> (M.Sc - Project )	Associate Professor, Dept. of Microbiology, Periyar University, Salem – 630 011	prasanthvi@periyaruniversity.ac.in 9444080796
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	<b>Dr. Ngo Mback Madeleine N.L.</b> (Ph.D. scholar) 6 months overseas training through C V Raman International Fellowship for African Researchers (DST, Govt. of India)	Academic Coordinator Senior Lecturer in Biochemistry. Institute of Fisheries and Aquatic Sciences - Yabassi University of Douala B.P. 24157 Douala Cameroon	ngombackmanilo@yahoo.fr +237 696319858
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