# 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 427, including 67 book chapters/reviews & 3 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: 7.24 crores.
- > Grants received other than personal research (UGC-Non SAP, DST PURSE, FIST) Rs. 18.39 crores.
- > Number of Ph.D's produced: 36 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 111 papers in 45 International level Conferences/ Symposia and 370 papers in 93 National level Conferences/Symposia/ Seminars in which 53 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 5 graduation day addresses.
- 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)
- Organized 5 Refresher Courses, 3 DST-INSPIRE programmes, 8 Symposia, 2 International Conferences, 2 Seminars and 8 Workshops.
- ➢ Gave 4 All India Radio talks.
- > 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 644, Barcode of 6 Fungi & whole genome sequences of 7 cyanobacteria.
- > Evaluated Ph.D. thesis from other Universities 156.
- Publications received total Citations 13,013; <u>h</u> index 55; i<u>10</u> index 197 (as on December 24, 2024). Total Impact factor – ~546.76
- > 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: <u>www.nrmcf.org</u>).
- Establishment of "Professor N. Thajuddin Endowment Gold Medal Award" by my Ph.D. Students to be 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).

# 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 : provc@crescent.education / 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 ORCHID iD: https://orcid.org/0000-0001-9966-3119 Web of Science ID : L-1915-2019 Scopus ID: 24340257000 Website : https://crescent.education/wp-content/uploads/2024/06/Detailed-Profile.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.	2. Botany Periyar University Salem, 636 011, India Janu		January 2022	-
Ph.D.	Botany	Department of BotanyAugust, 1991Bharathidasan UniversityAugust, 1991Tiruchirappalli – 620 024, India		-
M.Phil.	BotanyA.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	Period
	Designation	From	То	Years	Months
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	То	Experience
Syndicate Member	Bharathidasan University	3. 3. 2009	22.1. 2010	10 months
Senate Member	Bharathidasan University	May 2007	June 2019	12 years
<b>Dean,</b> Faculty of Science, Engineering and Technology	Bharathidasan University	24.6.2015	2.6.2019	4 years
Member, Standing Committee on Academic Affairs	Bharathidasan University	May 2007	June 2019	12 years
Chair, School of Life Sciences	Bharathidasan University	1.7.2017	15.11.2022	5 years & 4 Months
Head i/c, Microbiology	Bharathidasan University	15.5.2007	10.9.2008	1 year & 4 months
Head, Microbiology	Bharathidasan University	11.9.2008	22.9.2011	3 years
Head i/c, Microbiology	Bharathidasan University	13.10 2012	12.10.2013	1 year & 0 month
Head, Microbiology	Bharathidasan University	11.1.2015	30.6.2019	4 years & 5 months
Co-ordinator, DST-PURSE	Bharathidasan University	20.7.2016	18.2.2022	5 years & 6 months
Library i/c, Life Science	Bharathidasan University	4.11.2016	9.1.2023	6 years & 2 months
<b>Convener,</b> World Class Curriculum Development Cell, Biological Sciences	Bharathidasan University	31.5.2017	31.8.2022	5 years & 3 months
Editor in-chief, Bharathidasan Journal of Science & Technology	Bharathidasan University	6.9.2018	31.8.2022	4 years
Member Secretary, Institutional Ethical Committee (IEC)	Bharathidasan University	27.2.2018	31.8.2022	4 years & 1 months
Member Secretary, Institutional Biosafety Committee (IBSC)	Bharathidasan University	31.10.2016	31.8.2022	6 years
<b>Programme Co-ordinator,</b> V year M.Sc. Life Sciences, School of Life Sciences	Bharathidasan University	18.10 2019	2.11.2022	3 years
<b>Co-ordinator,</b> Centre for Excellence in the School of Life Sciences.	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
Adjunct Professor, Dept. Microbiology	Thassim Beevi Abdul Kader College of Women Kilakarai	5.10 2018	5.10 2019	1 year
Pro – Vice Chancellor	B.S . Abdur Rahman Crescent Institute of Science and Technology (Deemed to be University), Vandalur, Chennai 600 048	3.7. 2023	Till date (6.12.2024)	1 year 5 months

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

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

#### 8. School Education

1st Std. – 7th 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> (Botany) (1985)	Dr. G. ThirupurasundariDepartment of BotanyGovt. Arts College, Karur&Dr. T. MarimuthuAll India Co-ordinated ResearchProject on Beetle Vine Diseases,Tamil Nadu Agricultural UniversityStation, Velur, Salem Dt.	Certain physiological changes in Betel vine ( <i>Piper</i> <i>betle</i> L.) infected with <i>Xanthomonas campestris</i> pv <i>betlicola</i>
<b>M.Phil.</b> (Botany) (1986 –1987)	Dr. S. Balakrishnan Department of Botany AVVM Sri Pushpam College, Poondi, Thanjavur	Studies of Algae in Industrial Effluents
<b>Ph.D.</b> (Botany) (1987 -1991)	Dr. G. Subramanian Department of Botany Bharathidasan University Tiruchirappalli	Marine cyanobacterial flora of the southern east coast of India - Survey and Ecobiological Studies.
Post- Doctoral Fellow (April 1996 – March 1997)	Dr. Sandra A. Nierzwicki-Bauer 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> .



#### 10. Research Projects / Grants Received:

# i) Personal research projects: 20 Research Projects value of <u>Rs.7,24,51,379</u>/-(Rupees seven crore twenty for lakhs fifty one thousands) from DOD, UGC, DBT & DST

# ii) Grants received other than personal research - <u>Rs. 18.39 crores</u> 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	5683	4451	12963
h-Index	35	34	55
i-10 index	-		196

\*As on June 21, 2023; \*\* As on December 17, 2024.

Total number of publications: 427 research papers including 67 book chapters/reviews & 3 papers in Nature Group Journals

#### (ii) . Research Collaborations:

# **Research collaborations - 74 joint publications with 59 Universities / Research Institutes of 23 countries.**

No	Name of the University/institute	Country	Type of Collaborations
1	<ul> <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> <li>Brown University Warren Alpert</li> </ul>	USA	Post-Doctoral Research & Joint publication

	<ul> <li>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> <li>Swansea University, Swansea, Wales</li> <li>Plymouth Marine Laboratory, Plymouth</li> </ul>	United Kingdom	Indo-UK Project (DBT, Govt. of India)
3	<ul> <li>National University Singapore</li> <li>Nanyang Technological University</li> </ul>	Singapore	Joint publications
4	<ul> <li>King Saud University</li> <li>Majmaah University</li> <li>Taif University</li> </ul>	Saudi Arabia	Joint publications
5	<ul> <li>Wolaita Sodo University</li> <li>Jimma University</li> <li>Haramaya University</li> </ul>	Ethiopia	Joint publications
6	<ul> <li>7<sup>th</sup> of October University</li> <li>Misurata University</li> </ul>	Libya	Joint publications
7	• University of Hong Kong	Hong Kong	Research Collaboration
8	<ul> <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>	Republic of Korea	MoU & Joint publications
9	<ul> <li>Ton Duc Thang University</li> <li>Duy Tan University</li> <li>Van Lang University</li> </ul>	Vietnam	Joint publications
10	• University of Malaya	Malaysia	Joint publications
11	<ul><li>Shanghai Jiao Tong University</li><li>Shantou University</li></ul>	PR China	Joint publications
12	<ul><li>Prince of Songkla University</li><li>Maejo University</li></ul>	Thailand	Joint publications
13	• K.U. Leuven Laboratory of Molecular Cell Biology	Belgium	Joint publications
14	• Max Planck Institute for Molecular Biology	Germany	Joint publications

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

#### 13. Books Published

- முனைவர் நா. தாஜுத்தீன் (2013) 'நுண்ணுயிரியலும் நோய்தடுப்பாற்றலியலும்' என்ற முதுநிலை பட்ட வகுப்பிற்கான இந்நூல் தமிழில் எழுதப்பட்டு தமிழ்நாடு மாநில உயர்கல்வி மன்றத்தினரால் (TANSCHE, Chennai – 600 005) வெளியிடப்பட்டுள்ளது (464 பக்கங்கள்).
- 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).

- Fungicides: Beneficial and Harmful aspects (2011) ISBN: 978-953-308-508-1 N. Thajuddin (Editor) - INTECH Open Access Publisher. www.intechweb.org, 51000 Rijeka, Croatia. 266 pages.
- 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, 51000 Rijeka, Croatia.298 pages.
- 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.
- 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, 51000 Rijeka, Croatia. Pages 340.
- 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, 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.
- 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**

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:	LAB	MANUALS:	
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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	சிப்பிக் காளான் வளர்ப்பு தொழில்நுட்பவியல் Manual on "Oyster Mushroom Cultivation	முனைவர் நூ. தாஜுத்தீன் ரூ முனைவர் த. தனசேகரன்	

	Technology" (in Tamil)	N.Thajuddin & D. Dhanasekaran	2010
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# 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 Frame Ooze Out Technique (FOOT). (Indian Patent)	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	Treading Homogenous Gas Phase Active Species for the Preparation Cyanobacterial Axenic Culture, A Jet (THAJ) method (Indian Patent)	Application No. 201741043178 A Publication Date : 26/01/2018	An inexpensive process of developing axenic culture of unicellular cyanobacterium <i>Synechococcus</i> <i>elongatus</i> by treating ozone (O <sub>3</sub> ).	Dr. D. MubarakAli Dr. N. Thajuddin (Head) Mr. E. Baldev
3	Microbial Bioconversion of Curcumin to Calebin – A (MBCC) (Indian Patent)	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	Antimicrobial activity of Bioactive Compounds and their Derivatives (ABCD). (US Patent)	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. Nagabhusha- nam, Dr. N. Thajuddin <i>et al</i> .
5	A Process and System for Wastewater Treatment and Sludge Minimization (WTSM) (Indian Patent)	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, agricultural purposes and ground recharge	Sheik Syed Ishack, K.A., Panneerselvam, A., Ambikapathy, V., Thajuddin, N., et al.
6	A system for producing Anti-parasitic Compounds and Derivatives from Marine Hypotrichous	Application No. 202241045547 A Filed date 9 <sup>th</sup> August 2022	The present invention relates to a system for producing anti-parasitic compounds (Sesqui terpenoids) and derivatives from	Dr. N. Anandakumar and Dr. N. Thajuddin

	Ciliates (ACDC) (Indian Patent)	Publication Date : 19 <sup>th</sup> August 2022	Marine Hypotrichous Ciliates	
Patent Granted				
1	Microbial Bioconversion of Curcuminoids to Calebin-A (MBCC). (US Patent)	Patent No. 11,299,706 B2 Date of Patent granted : April 12, 2022	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, <i>et al</i> .

#### 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	Dr. Jee-Eun Huh	CEO Beautyline Co. Ltd, Incheon, Republic of Korea	30 <sup>th</sup> June 2015
2	Prof. Taejun Han	CEO, Institute of Green Environment Research Incheon National University Incheon, Republic of Korea	
3	Prof. Jung-Wan Kim	Professor & Head Division of Bioengineering Incheon National University Incheon, Republic of Korea	30 <sup>th</sup> June 2015
4	Prof. Sang-Yul Lee	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 University2nd DecemberShanghai, P.R. China2016	
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	<b>Dr. V. Sivasubramanian</b> , Director, Phycospectrum Consultant Private Limited, Anna Nagar Chennai - 600 040	Honorary Consultant Incorporation of Pulsed Magnetic Field for Higher Lipid production by Microalgae in large scale	2016 - 2020	-
2	<b>Dr. Muhammed Majeed</b> Founder & Managing Director Sami Labs Limited, Peenya Industrial Area, Bangaluru - 560058	Honorary Consultant 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.	Principal Investigator Bioremediation of Municipal Solid Waste Leachate using microalgae MoU signed on 29.1.2022	2022	7,24,500/-
4.	<b>Mr. RA. Kamaraj</b> Managing Director Kwalitee Algae Farms 138/B7B, Thalapatti Village Manmangalam Taluk Karur District – 639 003	Principal Investigator Waste water treatment utilizing Microalgae MoU Signed on 6.10.2022	2022	4,48,500/-
5	<b>Dr. Ilan Kuppusamy</b> Founder and Director NanoFold India Inc. 3, Bellary Road, RMV Extension Sadashiva Nagar Bangalore – 560 080	<b>Project Convenor,</b> CGOM 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 <b>1,06,76,600/</b> -				

# 17. Research Supervision:

	Guided	Guiding
P.G.	140	-
M.Phil	31	-
Ph.D.	27* + 10**	5*
Post-Doctoral Level	15	-

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

18. Ph.D. Degree Awarded: 37 Ph.D Candidates including 10 candidates as Co-guide.

### 19. Ph.D. Guiding: 4 candidates

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

- 21. M.Phil. Guided: 31 candidares
- 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 : (\*53 Papers have received Best Paper Awards / Cash Prize)

International level Conferences/ Symposia : 45 conferences / Symposia with the total of 111 papers National level Conferences/Symposia/: 93 conferences / Symposia with the total of 370 papers

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

Webinars/ Seminar/Symposia/Conferences. 430 events

#### 26. Chaired Technical Sessions in Symposia/ Conferences/Seminars : 42 events

#### 27. Graduation Day Address:

- 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.
- 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.

#### 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).
- 2. 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

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

#### 32. Prizes, Medals and Other Honours received:

#### **Elected Fellow**

- 1. Elected Fellow of Linnean Society of London (FLS) from 24<sup>th</sup> May, 2022
- 2. Elected Fellow of Royal Society of Biology (FRSB) London from 1<sup>st</sup> January 2022.
- 3. Elected Fellow of Mycological Society of India (FMSI) for the year 2021.
- 4. Elected Fellow of Microbiologists Society, India (FMBSI) for the year 2022
- 5. Elected Fellow of National Academy of Biological Sciences (FNABS) from 2020.

#### Awards

- 1. Awarded Merit Certificate from Indian Botanical Society (1989).
- 2. Received **DBT Overseas Associateship Award** [Long-term] (1994-1995) 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, University of Calcutta, Kolkata.
- 5. Received **Best Research Advisor Award** 2013, Eco Club, H.H. The Rajah's Govt. College, Pudukkottai
- 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, University of Madras, Chennai.
- 10. Received **Prof. M.S. Swaminathan NABS-Leadership Award** of National Academy of Biological Sciences for the year 2017.
- 11. Received **Prof. V. Krishnamurthy Endowment Lecture Award** 2018 of Seaweed Research and Utilization Association on 21<sup>st</sup> September 2018, Madras Christian College (MCC), Chennai 600 059, Tamil Nadu, India.
- 12. Received **K. Chidambaram Memorial Annual Award 2019** of Fisheries Technocrat Forum, Chennai on 31<sup>st</sup> October 2020 for my significant and outstanding contributions in Plant Microbiology.
- 13. Received National Level Senior Scientist Award from Microbiologists Society, India (MBSI) (2021)
- 14. Received Life Time Achievement Award for the year 2022 from the Society of Chemicals and Synthetic Biology.
- 15. Received **Dr. V. Agnihothrudu Memorial Lecture Award** of Mycological Society of India during 49<sup>th</sup> Annual meeting of MSI, Bilaspur, Chhattisgarh on 28<sup>th</sup> November, 2022
- 16. 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 on 19<sup>th</sup> December, 2022 at Sri Sri University, Cuttack, Odisha, India.
- Received NABS Foundation Day Lecture Award 2023 from National Academy of Biological Sciences (NABS) on 10<sup>th</sup> March 2023.
- 18. Received **Eminent Scientist Award** from the International Conference on Recent Advances in Animal Biology and Conservation, University College, Thiruvananthapuram, Kerala on December 21, 2023
- 19. Received Roger Stanier International Research & Academic Excellence Award 2024' from the International Multidisciplenary Reseach Foundation (IMRF) Excecutive Council and IMRF International Awards Committee 2024 during United Nationas Public Service Day 2024 and the "International Symposium on Public Service through Education" organized by IMRF Institute of Higher Education and Research, Vijayavada, Andra Pradesh, India on June 22<sup>nd</sup>, 2024
- 20. 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.
- 21. 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.
- 22. Listed under Top 2% Scientist of the World in Microbiology published by Stanford University, USA (2020, 2021, 2022, 2023 & 2024)

#### 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.
- Organized "Seminar on Immunology & Immunotechnology" jointly with Indian Immunological Society, New Delhi, at Bharathidasan University, during September 18 & 19, 2009 – As Organizing Secretory.
- 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 (In**novations 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 (In**novations 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.
- 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 (In**novations 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 "நண்பாசிகளின் பயன்கள்" (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).

- Gave a talk in Tamil on சயணோபாக்டீரியன்களில் உயிர்தொழில்நுட்பங்கள் ீநர்முகம் (Cyanobacterial Biotechnology) broadcasted on January 05, 2006, 8.45 am. (Ref. No. TIR-16(1)/2005-P3/SNT/6744 dated December 15, 2005).
- Gave a talk in Tamil on "மாற்று எரிபொருள் தொழில்நுட்பம்" (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.
- Member in Board of Studies in Periyar University, Salem; Alagappa University, Karaikudi; Madurai Kamaraj University, Madurai; Thiruvalluvar University, Vellore; Bharathiar University, Coimbatore; Gandhigram Rural Instutute, Deemed University, Gandhigram, Dindigul District; Kerala University of Fisheries and Ocean Studies, Kochi, Kerala; Mother Teresa Women's University, Kodakanal; Pondicherry University, Puduchery; 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.
- 11. Examiner Ph.D. Thesis evaluation / viva voce University of Madras, Chennai; Madurai Kamaraj University, Madurai; Manonmanium 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, Kolkotta; Jawaharlal Nehru Technological University, Hyderabad; Anna University, Chennai; VIT University, Vellore; SRM University, Katankulathur; Gauhati University, Assam; Berhampur University, Odisha; Noorul Islam

University, Kumaracoil; 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 Maharahstra University, Jalgaon, Maharastra. Savitribai Phule Pune University, Pune; Swami Ramanand Teerth Marathwada University, Nanded, Maharastra; 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), Guwahatti, Assam, Visva-Bharati, Santiniketan. The University of Burdwan, Burdwan, West Bengal. Jawaharlal Nehru University, New Delhi, Banaras Hindu University, Varanasi.

- 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)
- 13. Member Research Advisory Committee, Ponnaiyah Ramajeyam College of Arts and Science, Thanjavur.
- 14. **Member Research Advisory Committee** Vivekananda Institute of Algal Technology, RKM Vivekanandha College, Mylapore, Chennai.
- 15. **University Nominee** to the **College Committee** of National College, Tiruchirappalli 620 001 for a period of three years (8.1.2008 7.1.2011).
- 16. **Member**, **Expert committee** for evaluation of research projects on Microbiology, University Grants Commission, New Delhi – 110 002 – December 29, 2014
- 17. **Member Mid-term monitoring committee** (UGC) A Centre with Potential for Excellence in Particular Area (CPEPA), Mysore University, Mysore.
- Member Advisory Committee (UGC) SAP DRS II (2014 2019) Department of Molecular biology and Biotechnology, Tezpur University, Tezpur – 784 028, Assam.
- 19. **Chairman Project Monitoring Committee** MoEF (Ministry of Environment, Forests & Climate Change (CT Division)- Department of Microbiology & Biotechnology, Bangalore University, Bangalore.
- 20. **Member Executive Committee**, Bharathidasan University, Business Development Centre (BDU-BDC) from 9.7. 2015.
- 21. **Member Executive Committee**, Institute of Entrepreneurs and Carrier Development (IECD) Bharathidasan University.
- 22. **University Nominee** to the College Committee of Tamilvel Umamaheahwaranar Karanthai Arts College, Thanjavur 613 002 for a period of three years (16.3.2016 15.3.2019).
- 23. **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).
- 24. **Member Instrument Purchase Committee**, Bharathidasan University Constituent & Model Colleges, Bharathidasan University from 2.12.2016.
- 25. **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).
- 26. **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).
- 27. Member Institutional Animals Ethics Committee (IAEC) for the period of 5 years from 27th April 2018.
- 28. **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
- 29. **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.
- 30. Member Research Committee, Bharathidasan University for the period of 3 years from 6<sup>th</sup> August, 2019.

- 31. **University Representative** to the **Governing Body** of Cauvery College (Autonomous), Annamalai Nagar, Tiruchirappalli 620 018.
- 32. **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.
- 33. **UGC-Representative** for Extension of Autonomous status to Thanthai Hans Roever College (Autonomous) Perambalur (29.3.2021).
- 34. **Member TANSA 2020, 2021, 2022 & 2023** Award Selection committee (Biological Sciences) of Tamil Nadu State Council for Science & Technology (TNSCST), (19.11. 2021).
- 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).
- 36. **Member, DST SERB IRHPA Task Force** for establishing National Biosafety Level-3 Facilities (BSL / ABSL 3. (From 22 February, 2022).
- 37. **Hon'ble Governor-Chancellor nominee** Member of the Planning Board of Bharathidasan University for a period of three years from 18.02.2022.
- 38. **Coordinator** High Level Committee's Sub Committee of the Tamil Nadu Education Policy High Level Committee for the Topic: 11 "Research"
- 39. **Member** High Level Committee's Sub Committee of the Tamil Nadu Education Policy High Level Committee for Higher Education Topic: Vision, Structure and Function.
- 40. **Member** Academic Council of Tamil Nadu Open University for three years from 16 October, 2024 to 15 October, 2027.

#### 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 Europian Journal of Integrative Medicine Elsevier – B.V. Ecotoxicology and Environmental Safety Elsevier – B.V. 10 11 Green Chemistry Letters and Reviews Taylor & Francis 12 Indian Journal of Geo-Marine Sciences CSIR 13 Industrial & Engineering Chemistry Research ACS IET, UK 14 IET Nanobiotechnology 15 Journal of Nanoparticle Research Springer

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

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
29	VEGETOS: An International Journal of Plant Research and Biotechnology	Springer

#### **39 A : Journal Editor**

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

# 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)

SI. 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	157
	CYANOBACTERIAL PHYCOCYANIN GENES	6
3	Cyanobionts in LICHENS	3
4	Cyanobionts in CYCADS	18
5	Cyanobionts in AZOLLA	12
6	CYANOBACTERIAL GROUP I SELF SPLICING INTRONS	26
7	MICROCYSTIN SYNTHASE E (McyE) GENE	1
8	ACTINOBACTERIA	43
9	BACTERIA	157
10	SUBSURFACE BACTERIA	32
11	FUNGI (18S rRNA/ITS Sequences)	58

12	MICROALGAE (18S rRNA Sequences)	63		
13	MICROZOOPLANKTON / PROTOZOANS	2		
14	VIRAL SEQUENCES	8		
	Total number of sequences deposited     644			
1	For Dataile Visit: https://www.pabi.plm.pib.gov/puppers/2torm=Theiuddin			

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	Trichoderma viride NTDMF01	NTDMF001-10
2	Penicillium citrinum NTLF05	NTMLF001-11
3	Emericella nidulansNTLF03	NTMLF002-11
4	Aspergillus sp. NTLF06	NTMLF003-11
5	Fusarium sp. NTLF07	NTMLF004-11
6	Trichoderma sp. NTLF01	NTMLF005-11

Ref.: 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	Oscillatoria laete-virens NRMCF 0139	PRJNA946290
2	Oscillatoria cortiana NRMCF 0138	PRJNA946287
3	Oscillatoria splendida NRMCF 0141	PRJNA943129
4	Geitlerinema splendidum NRMCF 0141	JASHIH00000000
5	Kamptonema cortianum NRMCF 0138	JASNGF00000000
6	Geitlerinema calcuttense NRMC-F 0142	NZ_JASVEJ00000000
7	Oscillatoria amoena NRMC-F 0135	JASVE100000000
8	Lymnospira fusiformis NRMC-F 6962	JBFUXN00000000

#### 43. Establishments: at Bharathidasan University

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

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