



Dr. T. SIVASUDHA

Professor

CONTACT

Plant Metabolomics Laboratory
Department of Environmental Biotechnology
School of Environmental Sciences
Bharathidasan University
Tiruchirappalli-620024
Tamil Nadu
Employee ID : BDU1760798
E-mail : sudha@bdu.ac.in, sudacoli@yahoo.com;
Phone : 91-431-2407088 - (450)
Mobile : 9994544849
<https://scholar.google.co.in/citations?user=nfJxhwQAAAAJ&hl=en>
<https://www.scopus.com/authid/detail.uri?authorId=6701822183>
<https://www.researchgate.net/profile/T-Sivasudha>
<https://www.webofscience.com/wos/author/record/2083441>
<https://bdu.irins.org/profile/81059>

ACADEMIC QUALIFICATION

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| 2009-2010 | PDF as BOYSCAST fellow- RNAi mediated Gene Silencing USDA-ARS Washington State University, USA |
| 2000-2005 | Ph.D., Molecular Biology and Biotechnology - Indian Agricultural Research Institute, New Delhi, India |
| 1998-2000 | M.Sc., Microbial Gene Technology- Madurai Kamaraj University, Madurai, Tamil Nadu, India |

1994-1998 **B.Sc., Agriculture**-AC&RI Madurai Tamil Nadu Agricultural University,
Coimbatore, Tamil Nadu, India

TEACHING EXPERIENCE: 18 Years

2020 - To date **Professor**
Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli – 620 024

2017 – 2020 **Associate Professor**
Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli – 620 024

2007 – 2017 **Assistant Professor**
Department of Environmental Biotechnology, School of Environmental Sciences, Bharathidasan University, Tiruchirappalli – 620 024

2006 – 2007 **Lecturer**
Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638 401

2005 – 2006 **Lecturer**
Department of Biotechnology, Kamaraj College of Engineering, Virudhunagar – 626 001

Teaching Experience- 19 years

RESEARCH EXPERIENCE: 24 Years

AREA OF RESEARCH

- Plant Molecular Biology
- Phytochemistry and Pharmacology
- Mass spectrometry

Phytochemical profiling of medicinal plants traditionally reported for anti-diabetic, antiepileptic, anti-rheumatic, nephroprotective, and hepatoprotective activity and validating their therapeutic

potential by conducting *in vivo* studies on animal models (rat and mice). *In vivo* studies are carried out to understand the mechanism of action of bioactive principle and study changes that take place at the level of regulation of metabolic network.

RESEARCH SUPERVISION/GUIDANCE:

Program of Study		Completed	Ongoing	Submitted
Research	PhD	12	6	1
	M.Tech/Mphil	12	-	-
Project	PG	39	-	-
	UG / Others	1	-	-

LIST OF STUDENTS COMPLETED Ph. D.

Sl. No	Name	Year of Award	Title of Thesis
1	Dr. A. Rameshkumar	October, 2012	Profiling of phenolic compounds through UPLC-MS/MS and study on pharmacological properties of <i>Merremia emarginata</i> (Burm.f.).
2	Dr. R. Jeyadevi	March, 2014	Detection and Identification of bioactive compounds from Mudakathan Keerai (<i>Cardiospermum halicacabum</i> L.) through UPLC-MS/MS and evaluating its anti-arthritis potential.
3	Mrs. B. Sangeetha	August, 2019	Profiling of fatty acid composition by GC-MS and evaluation of anti-obesity activity of <i>Benincasa hispida</i> against cafeteria diet induced obesity in Swiss albino mice.
4	Dr. G. Smilin Bell Aseervatham	February, 2015	Identification of bioactive phytochemicals from <i>Trichosanthes tricuspidata</i> L. (Red Ball Snake Gourd) and evaluating its antiepileptic potential.
5	Dr. D. Arul Ananth	June, 2015	Profiling of bioactive compounds from <i>Pergularia daemia</i> Forsk. (Veliparuthi) through LC-MS analysis and evaluating its anti-arthritis potential.
6	Mr. A. Abdul Kader Jailani (PT)	June, 2017	Development of Plant viral vectors for expression of heterologous protein in plant

			system
7	Mr. R. Karthik	February, 2018	Identification of bioactive phytochemicals from <i>Pisonia grandis</i> R.Br. and evaluate their anti-arthritic activity in CFA induced Wistar rats.
8	Ms. N. Gayathri	July, 2019	Metabolite profiling and evaluation of anti diabetic activity of Avaram Senna (<i>Cassia auriculata</i> L.)
9	Mr. L. Dinesh Kumar	February, 2020	Chondroprotective effect of <i>Cissus quadrangularis</i> in mono iodoacetate induced osteoarthritic rats
10	Ms. E. Abbirami	March, 2020	Evaluation of antidiabetic properties of <i>Momordica cymbalaria</i> (Hook, Fenzl) skin and seed extracts on alloxan induced diabetic rats.
11	Mr. R. Guna	September, 2021	Attenuation of protein glycation by Dragon fruit (<i>Hylocereus polyrhizus</i>) in advanced glycation end products induced experimental mice.
12	Ms Soumi Paul	September, 2023	Cross-sectional study of insomnia disorder among academics and phytotherapeutic approach to treat insomnia.
13	Ms A Abirami	August, 2024 (Thesis Submitted)	Screening and Evaluation of bioactive compounds as novel inhibitors of Breast cancer target protein through <i>in silico</i> and <i>in vitro</i> approaches

LIST OF STUDENTS PURSUING Ph. D.

Sl. No	Name	Year of Registration	Research title
1.	Mr. V. Satheesh (PT)	2016	Phytochemical profiling of medicinal plants and exploring its pharmaceutical potential.
2.	Ms Megala Devi	2021	Pest management and viral diagnostics
3.	Ms S. Magdalin Sylvia	2022	Medicinal plants for metabolic diseases
4.	Mr. N Vivek	2022	Bioprospecting of Marine Microalgae and Cyanobacteria for prebiotics
5.	Ms. B. Dhivyadharshini	2023	Profiling of prebiotic oligosaccharides present in anti-arthritic medicinal plants and evaluation of the association between gut-microbiota and arthritis

6.	Mr. V. Veeramurugan	2023	Exploring the potential of Omega fatty acids from Microalgae and Cyanobacteria as sustainable and nutritious sources for functional foods and nutraceuticals
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PUBLICATIONS

International		National		Others
Journals	Conferences	Journals	Conferences	Books Chapters
58	02	-	02	04

PUBLICATIONS

Total No. of Publications : 58
Impact Factor : 242 (JCR, 2023)
Citation index : 2240
H-index : 27 (Google Scholar)
I10 index : 50
No. of publications with >5 Impact factor: 14
No. of publications as Corresponding author: 41
No. of publications as co author: 17
Web of Science Researcher ID: AAZ-7386-2020
Scopus Author ID: 22951715200
ORCID ID: 0000-0001-6460-1612

	Funding Agency	Title	Amount in Rs.	Duration
Principle Investigator (PI)	DBT (India)	Analysis and evaluation of Indian staple food fortified with Veldt grape (<i>Cissus quadrangularis</i>) stem powder to overcome osteoporosis	31,98,200	2016-2019 (Completed)
Principle Investigator (PI)	DST- SERB (India)	Effect of <i>Pouteria Campechiana</i> Linn extracts on experimental model of epilepsy in rats: an exploratory study	5,70,000	2015-2016 (Completed)
Principle	UGC	Identification and characterization of	11,05,800	2012-2014

Investigator (PI)	(India)	bioactive compounds by HPLC and exploring anti-rheumatic potential of Mudakathan keerai (<i>Cardiospermum halicababum</i>)		(Completed)
Co-Principle Investigator (Co-PI)	BBSRC-DBT (Indo-UK, SuBB.)	Sustainable bio-energy from microalgae- A systems perspective.	2,30,24,000	29/10/2013-28/10/2016 (Completed)
Principle Investigator (PI)	ICMR, DHR (India)	Phytonutrient and lipid profiling of refined and unrefined cooking oils and comparative study on obesity and cardiovascular risks in rats as animal model	23,00,000	15/09/2019 – 14/09/2022 (Completed)
Principle Investigator (PI)	RUSA 2.0	Isolation of bioactive compounds from Persimmon fruit (<i>Diospyros kaki</i>) and evaluating their prebiotic potential against Colon Cancer	12,36,000	April 2021 to April 2023 (Completed)
Principle Investigator (PI)	DST- SERB (India)	Profiling and evaluation of prebiotic potential of oligosaccharides present in anti-arthritic medicinal plant – based functional foods using CFA induced arthritic animal model and to explore the association of gut microbiome and arthritis	25,23,400	July, 2022 to July, 2025 (ongoing)
Co-Principle Investigator (Co-PI)	DBT, GoI	Outdoor mass cultivation of marine microalgae for biodiesel production with improved solar conversion efficiency	79,33,143	21/12/2018 to 20/12/2022 (Completed)
Co-Principle Investigator (Co-PI)	DBT, GoI	Establishment of National Repository for Microalgae and Cyanobacteria – II Phase	1,72,70,740	10/03/2021 to 09/03/2025 (ongoing)

PATENTS

NIL

DISTINCTIVE ACHIEVEMENTS/AWARDS

Award	Year	Agency	Country
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DST - BOYSCAST	2009-2010	Department of Science and Technology (DST)	USDA-ARS, WSU, Prosser, WA, USA
ICAR-NET	2004	Agricultural Scientists Recruitment Board (ICAR)	India
CSIR-SRF	2003	Council of Scientific Industrial and Research (CSIR)	India
CSIR-JRF& CSIR-NET	2001	Council of Scientific Industrial and Research (CSIR)	India

EVENTS ORGANIZED IN LEADING ROLES

National Seminar on Biology for Sustainable Environment (NSBSE - 2022)	Bharathidasan University, Tiruchirappalli	RUSA 2.0, DBT	23 rd March, 2022
International Seminar on Biology for Sustainable Environment (ISBSE 2017)	Bharathidasan University	UGC- DBT SAP,	7 th & 8 th March 2017
International Conference on Environment and Health in Changing Climate (ICEHCC 2016)	Bharathidasan University, Tiruchirappalli	DBT, ICMR, DRDO, INSA, UGC	14-16 th September 2016
One-day seminar on Genome and Protein Engineering	Bharathidasan University, Tiruchirappalli	DST- PURSE	12 th February 2016
National Seminar on Climate change and Environment	Bharathidasan University, Tiruchirappalli	DST- PURSE	17 th October 2007

OVERSEAS EXPOSURE/VISITS

Country visited	Purpose	Funding Agency	Duration
USA (Washington DC)	Research (PDF)	DST- India	2009-2010

MEMBERSHIP IN

PROFESSIONAL BODIES

Member	Country	Year
The Indian Society for Technical Education (Life Member)	India	2005
The Society of Biological Chemists, India (4526) Life Member	India	2022

Academic Bodies (such as Board of Studies etc.,)

1. University Representative to the Academic Council of Cauvery College for Women (Autonomous), Tiruchirappalli-620 018 from 2022 to 2025.
2. University Representative to the Governing Body of Kunthavai Naachiyaar Government Arts College for Women (Autonomous), Thanjavur – 613 007 from 2022-2025.
3. University Representative to the Academic Council of Nehru Memorial College (Autonomous), Puthanampatti – 621 007 from 2022 to 2025.
4. University Representative to the Academic Council of Thanthai Periyar Government Arts and Science College (Autonomous), Tiruchirappalli-620 023 from 2021 to 2024.
5. Member of Board of Studies for the programme Environmental Science (UG & PG) in Bharathidasan University, Tiruchirappalli-620 024 from 2021-2024.
6. University Representative to the Academic Council of Thanthai Hans Roever College (Autonomous), Perambalur – 621 220 from 2021 to 2024.
7. Member of Board of Studies for the programme M.Sc., Environmental Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 from 2021-2024.
8. University Representative to the Board of Studies in Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020 from 2019-2022.
9. University Representative to the Board of Studies in Biotechnology, Holy Cross College (Autonomous), Tiruchirappalli-620 002 from 2019-2022.
10. Member of Board of Studies in M.Sc., Environmental Science in Alagappa University, Karaikudi-630 003 from 2018-2021.
11. Internal Member on Board of Studies in Department of Environmental Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 from 2018-2021.
12. University Representative to the Board of Studies in Botany, National College (Autonomous), Tiruchirappalli – 620 001 from 2017-2019.
13. University Representative to the Board of Studies in Environmental science, J. J. College of Arts and Science (Autonomous), Pudukkottai – 622 422 from 2017-2019.
14. University Representative to the Board of Studies in Biotechnology, Holy Cross College (Autonomous), Tiruchirappalli-620 002 from 2017-2019.

15. Internal Member on Board of Studies in Department of Environmental Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 from 2016-2019.
16. University Representative to the Academic Council of Government Arts College for Women (Autonomous), Pudukkottai – 622 001 from 2015 to 2017.
17. External Expert Member on Board of Studies in B.Sc., Microbiology in Ayya Nadar Janaki Ammal College, Sivakasi, India.-626 124 from 2010-2012..

MEMBER OF ACADEMIC AND ADMINISTRATIVE EXPERT IN VARIOUS COMMITTEES...

1. Expert from outside University Department of Board of Studies for the programme 6 year integrated M. Tech - Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 from 2022-2025.
2. Deputy Warden for Ladies hostel, Bharathidasan University, Tiruchirappalli-620 002 (2020-till date)
3. Act as adjudicator for the event Act-as-fact as a part of Intercollegiate Science Meet (CenitterzT₂₃) held on 28th February 2023, organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli-620 024.
4. Subject expert of the PG & Research Department of Biotechnology for the E-content video lesson scrutinee committee for evaluating the E- content video lessons held on 29th April, 2022 at Holy Cross College (Autonomous), Tiruchirappalli-620 002.
5. Member of the selection committee for the post of Project Assistant in SERB-DST funded project (“Screening...”), for Department of Microbiology, Central University of Tamil Nadu, Thiruvavur- 610 005, Tamil Nadu held on 29.03.2022.
6. Question paper setter for M.Sc Environmental Sciences in PSG College of Arts & Science, Coimbatore-641 014 in 2020.
7. Member of the selection committee for the post of JRF (1) and SRF (1) in MI#5 projects (“outdoor...”), in Department of Marine Biotechnology, NFMCC, Bharathidasan University, Tiruchirappalli-620 024 on 06.02.2020.
8. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 in 2020.
9. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 in 2019.
10. Member of the selection committee for the post of JRF (1) and Young professionals -I (1) in DST-SERB funded project (“A whole...”), in ICAR-NRCB, Thogaimalai, Tiruchirappalli-620 102 on 09.01.2020.
11. Chairperson of Question paper Scrutiny Board for M.Sc Biotechnology in Alagappa University, Karaikudi – 630003 from 2019 onwards.
12. Question paper setter for B.Sc Microbiology in Sadakathulla Appa College (Autonomous), Tirunelveli – 627 011 from 2018-20.
13. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 from 2018-19

14. Member of Board of Examiners for B.Sc Biotechnology in Lady Doak College, Madurai-2 in 2019.
15. Member of the selection committee for the post of JRF (1) in DBT funded project (“Systematic...”), in Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli - 620 024 on 02.08.2019.
16. Co-organizing secretary for the National Conference on Impact of Climate Change on Public Health (ICCPH) held on 6th and 7th March 2018 at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli-620 024
17. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 in 2018.
18. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 in 2017.
19. Member of Advisory Committee for the implementation and monitoring of the SAP in Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli-620 024.
20. Question paper setter for M.Sc Biotechnology in University of Madras, Chennai – 600 005 in 2016.
21. Question paper setter for M.Sc Life Sciences in Bharathidasan University, Tiruchirappalli-620 024 in 2016.
22. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 in 2016.
23. Member of the selection committee for the post of Research Associate (1) in DBT funded project (“INDO-UK...”), in NFMC, Bharathidasan University, Tiruchirappalli - 620 024 on 03.01.2017.
24. Question paper setter for BE/B TECH in Kumaraguru College of Technology, Coimbatore-641 049 in 2015.
25. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 in 2015.
26. Question paper setter for M.Sc Marine Biotechnology in Bharathidasan University, Tiruchirappalli-620 024 in 2014.
27. Question paper setter for BE/B TECH Biotechnology in Kumaraguru College of Technology, Coimbatore-641 049 in 2013.
28. Question paper setter for ME/M TECH/MCA Biotechnology in Kumaraguru College of Technology, Coimbatore-641 049 in 2013.
29. Executive Committee Member in Science Academics’ Lecture Workshop on Challenges in Environmental Restoration (SAWCER 2012) supported by IIAS, INSA, TNAS & UGC held on 5th and 6th March, 2012 at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli-620 024.

30. Question paper setter for M.Sc Environmental Sciences in PSG College of Arts & Science, Coimbatore-641 014 in 2012.
31. Question paper setter for ME/M TECH/MCA/MBA Biotechnology in Kumaraguru College of Technology, Coimbatore-641 049 in 2012.
32. Question paper setter for B. TECH. Biotechnology in Kumaraguru College of Technology, Coimbatore-641 049 in 2012.
33. Executive Members in National Level training workshop on Monitoring and Evaluation of Recalcitrant chemicals in the Environment (MERE' 11) sponsored by MoES & CSIR held on 28th -31th October 2011 at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli-620 024.
34. Executive member in National Seminar on Spatial strategies for Sustainable Management (SSSM 2011) sponsored by Bharathidasan University held on 14th &15th February 2011 at Department of Environmental Management, Bharathidasan University, Tiruchirappalli -620 024.
35. Question paper setter for M.Sc Environmental Sciences in PSG College of Arts & Science, Coimbatore - 641 014 in 2011.
36. Executive Committee Members in International Symposium on Trace Organic Pollutants in the Environment held on 23rd January 2010 at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli-620 024.
37. Executive Members in Training Workshop on Environmental Pollutants and its control studies (TWO EPICS '09) held on 27th – 30th August 2009 at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli-620 024.
38. Question paper setter for M.Sc Environmental Sciences in SRM University, Kancheepuram-603 203 in 2008.
39. Question paper setter for M. TECH. Biotechnology in Kumaraguru College of Technology, Coimbatore-641 049 in 2008.

RESOURCE PERSON IN VARIOUS CAPACITIES

Number of Invited / Special Lectures delivered: 48

1. Delivered a lecture on the topic “**Land restoration, stop desertification and building drought resilience**” on 05th June 2024 at World Environment Day celebrations conducted by Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli – 24, Tamil Nadu, India.
2. Delivered a lecture on the topic “**Genome Engineering**” on 03rd April 2024 at LEITMOTIV conducted by Department of Botany, Bharathidasan University, Tiruchirappalli – 24, Tamil Nadu, India.
3. Delivered a lecture on the topic “**Food Waste Management**” in UGC-sponsored online refresher course in Environment & Sustainable Development (Multidisciplinary) held on 14th December 2023 at UGC-HRDC, Bharathidasan University, Tiruchirappalli, India.
4. Delivered a lecture on the topic “**Genome Engineering: Principles & Applications**” in BIOMED FUTURA held on 18th October 2023 at Department of Biomedical science, Bharathidasan University, Tiruchirappalli – 24, Tamil Nadu, India.
5. Delivered a lecture on the topic “**Biotechnological interventions for biotic stress tolerance in crops**” in National Seminar on Phyto-Biotic Stress Management organized by Department of Crop management & Crop protection held on 11th March 2023 at Thanthai Roever Institute of Agriculture and Rural Development, Perambalur, Tamil Nadu, India.
6. Delivered a lecture on the topic “**Genome Engineering - National level seven days up skilling faculty development programme sponsored by UGC- Autonomy grant for Faculty of life Sciences (online mode)**” on 26th February 2023 to Ayya Nadar Janaki Ammal College, Sivakasi, India
7. Delivered a lecture on the topic “**Familiarization with molecular biology/biotechnology and its instrumentation**” in high-end workshop on Sophisticated Analytical and Testing held on 23rd to 27th January 2023 at Department of Energy and Environment, National Institute of Technology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
8. Delivered a lecture on the topic “**Food Waste management**” in Student Induction Programme held on 9th November 2022 at Department of Environmental sciences & Management, Tiruchirappalli, India.

9. Delivered a lecture on the topic “**Bioenergy and Environmental protection**” in two day National Seminar on Sustainable technologies for Bioenergy and Environmental protection held on 14th & 15th October 2022 at Department of Biotechnology, Sethu Institute of Technology, Kariapatti, Virudhunagar.
10. Delivered a lecture on the topic “**Biotechnology for food waste management- A green way to environmental sustainability**” in SERB-sponsored High-End Workshop (Karyashala) on Recent advances in banana improvement, production, protection, PHT, extension and business arena for nutritional security in the era of Atmanirbhar Bharat held on 17th to 26th September 2022 at ICAR-National Research Centre for Banana, Tiruchirappalli, India.
11. Delivered a lecture on the topic “**Genetically modified organism: A way out of climate change**” in National Science Day Celebration-2022 held on 28th February 2022 at Department of Biotechnology, Bharathidasan University, Tiruchirappalli, India.
12. Delivered a lecture on the topic “**Sustainable Agriculture Practices**” in UGC-sponsored online refresher course in Environment & Sustainable Development (Multidisciplinary) held on 7th February 2022 at UGC-HRDC, Bharathidasan University, Tiruchirappalli, India.
13. Delivered a lecture on the topic “**Application of Genome Engineering**” in UGC-sponsored online refresher course in Basic and Applied Sciences (Pharma, Health, Life and Sports Sciences) held on 5th January 2022 at UGC-HRDC, Guru Nanak Dev University, Amritsar, India.
14. Delivered a lecture on the topic “**Genome Engineering: Genome Editing tools**” in UGC-sponsored online refresher course in Basic and Applied Sciences (Pharma, Health, Life and Sports Sciences) held on 3rd January 2022 at UGC-HRDC, Guru Nanak Dev University, Amritsar, India.
15. Delivered a lecture on the topic “**Genome Engineering**” in the one day International seminar on Advancements in Life Sciences and its Industrial held on 18th December 2021 at PG & Research Department of Biotechnology and Bioinformatics, Holy Cross College (Autonomous), Tiruchirappalli, India.

16. Delivered a lecture on the topic “**An insight into the gut microbiome**” in Microbiology Association held on 7th December 2021 at PG & Research Department of Microbiology, Jamal Mohamed College, Tiruchirappalli, India.
17. Delivered a lecture on the topic “**Familiarization with molecular biology and its instrumentation**” in 7 days online workshop on Familiarization, handling and training on Sophisticated Analytical and Audit Instruments for Engineers held on 18th to 24th October 2021 at Department of Energy and Environment, National Institute of Technology, Tiruchirappalli, India
18. Delivered a lecture on the topic “**Participants’ seminar presentations**” in UGC-sponsored online refresher course in Life Sciences (Interdisciplinary) held on 11th September 2021 at UGC-HRDC, Bharathidasan University, Tiruchirappalli, India.
19. Delivered a lecture on the topic “**Corona virus –symptoms and Implications**” in Two day seminar on challenging perspectives in Pharmaceutical Technology held on 21st & 22nd February 2020 at Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli, Tamil Nadu, India.
20. Resource person in the Workshop on Applied Bioinformatics, Techniques, tools and tasks held on 18th & 19th February 2020 at NFMC, Bharathidasan University, Tiruchirappalli, India.
21. Delivered a lecture on the topic “**Corona virus Awareness**” on 14th February 2020 at Biomedical Sciences, Bharathidasan University, Tiruchirappalli, India.
22. Delivered a lecture on the topic “**Genome Engineering**” on 7th September 2019 at Department of Microbiology, Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli, India.
23. Resource person in the Workshop on application of Bioinformatics and biological data analysis held on 21st & 22nd March 2019 at NFMC, Bharathidasan University, Tiruchirappalli, India.
24. Delivered a lecture on the topic “**Drug target identification for Osteoarthritis through protein**” in The National Workshop on Network Biology held on 27th & 28th February 2019 at DBT-BIF Center, Department of Biotechnology, Lady Doak College, Madurai, India.

25. Delivered a Presidential address on Two days workshop on Making a low cost sanitary napkins held on 16th February 2019 at WISH, Bharathidasan University, Tiruchirappalli, India.
26. Delivered a lecture on the topic “**Evidence based traditional medicine**” in the Symposium on Ayurveda Biology & Medicine – SABM 2019 held on 1st January 2019 at N. Rama Varier Ayurveda Foundation, Madurai, India.
27. Delivered a talk on Anti Plastic Campaign, held on 12th October at Department of Marine Science and Plant Science, CGI - Bharathidasan University, Tiruchirappalli, India.
28. Delivered a talk on Anti Plastic Campaign, held on 11th October at Department of Physics and Medical Physics, CGI - Bharathidasan University, Tiruchirappalli, India.
29. Delivered a talk on Anti Plastic Campaign, held on 10th October at Department of Bioinformatics and Library Sciences, CGI - Bharathidasan University, Tiruchirappalli, India.
30. Delivered a lecture on the topic “**Genome Editing tools and applications**” in UGC-sponsored Refresher course on Advances in Biological Sciences held on 28th March 2018 at UGC-HRDC (ASC), Madurai Kamaraj University, Madurai, India.
31. Delivered a lecture on the topic “**Evidence based traditional medicine**” in the International Conference on Innovations and Challenges in Bomedical Sciences Research held on 12th to 14th December 2017 at PG & Research Department of Biotechnology and Bioinformatics, Holy Cross College (Autonomous), Tiruchirappalli, India.
32. Delivered a lecture on the topic “**Genome Engineering**” in the Watson and Crick Club, PG & Research Department of Biotechnology and Bioinformatics held on 7th July 2017 at, BIF-Centre, Holy Cross College (Autonomous), Tiruchirappalli, India.
33. Delivered a lecture on the topic “**Significance on Understanding of Biology of Environment**” in UGC-sponsored one day workshop on Science, Technology and Society (STS) studies held on 31st January 2017 at Department of History, Bharathidasan University, Tiruchirappalli, India.
34. Delivered a lecture on the topic “**Introduction to LC-MS and its Applications**” in TEQIP-II sponsored Faculty development programme on Principles and application of Advanced analytical Instruments held on 20th September to 24th September 2016 at

Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli, Tamil Nadu, India.

35. Delivered a lecture on the topic “**Genome Engineering-advanced Research and Application**” in the short-term training workshop held on 28th November to 9th December 2016 at NFMC, Bharathidasan University, Tiruchirappalli, India.
36. Delivered a lecture on the topic “**Metabolomics and Genome Engineering**” in TEQIP sponsored Faculty development programme on Advances in Nanotechnology and Analytical Instrumentation in Health Sciences held on 24th June to 7th July 2016 at Department of Pharmaceutical Technology, BIT Campus, Anna University, Tiruchirappalli, Tamil Nadu, India.
37. Delivered a lecture on the topic “**Genome Engineering and Protein Profiling by LC-MS**” in TEQIP-II sponsored Faculty development programme on Implications of Chemical and Biological Sciences in Biotechnology held on 22nd June to 5th July 2016 at Department of Biotechnology, BIT Campus, Anna University, Tiruchirappalli, Tamil Nadu, India.
38. Delivered a lecture on the topic “**Antimicrobial activity of Quantum Dots (TGA-CDT&QDS) conjugated with phenolics for the control of microbes in drinking water**” in the National seminar on Advances in Biological and Environmental Sciences (NCABES-2016) held on 25th & 26th February 2016 at Department of Biology, Gandhigram Rural Institute-Deemed University, Gandhigram, Dindigul India.
39. Delivered a lecture on the topic “**Gene Cloning and Transformation**” in the AICTE sponsored Staff Development program on Diagnosis of foodborne pathogens using molecular techniques held on 5th April 2012 at Bannari Amman Institute of Technology, Coimbatore, India.
40. Delivered a lecture on the topic “**Metabolomics**” in the UGC-ASC Refresher Course in CAS in Botany held on 15th February 2012 at CAS in Botany, University of Madras, Chennai, India
41. Delivered a lecture on the topic “**Molecular Markers**” in the National Level workshop Cyanobacterial Advanced Research Techniques held on 2nd February 2012 at Bharathidasan University, Tiruchirappalli, India.

42. Delivered a lecture on the topic “**Protein Profiling by LCMS**” on 12th December 2011 at Ayya Nadar Janaki Ammal college, Sivakasi, Tamil Nadu, India.
43. Delivered a lecture on the topic “**Population Genetics**” in Bolivar Club held on 21th July 2011 at Department of Biotechnology, Cauvery College for Women, Tiruchirappalli, India.
44. Delivered a lecture on the topic “**Human chromosomes-pedigree analysis,mendelian traits in human-population genetics-Hardy Weinberg equilibrium**” in National seminar held on 13th July 2011 at Department of Biotechnology, Cauvery College for Women, Tiruchirappalli, India.
45. Delivered a lecture on the topic “**Molecular Markers of Metabolic Liver Diseases**” in the State Level seminar Biomedical Sciences and Technology held on 2nd March 2011 at Department of Biochemistry, Holy Cross College, Tiruchirappalli, India.
46. Delivered a lecture on the topic “**Application of Bioinformatics tools in Proteomics**” in the National seminar held on 17th February 2011 at National Bureau of Agriculturally Important Insects, Bangalore, India.
47. Delivered a lecture on the topic “**Recent advances in Microbiology, Genetics and Biotechnology Research**” in the CSIR & DBT sponsored National seminar on Recent advances in Microbiology, Genetics and Biotechnology Research 2009’ held on 20th January 2009 at Ayya Nadar Janaki Ammal College, Sivakasi, India.
48. Delivered a lecture on the topic “**Current Biotechnology and Microbiology Research – 2007**” in the CSIR, New Delhi Sponsored National seminar held on 7th March 2007 at Department of Biotechnology and Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi, India.

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3. Veeramurugan Veerasamy, Vivek Neethirajan, Magdalin Sylvia Singarayar, Dhivyadharshini Balasundaram, Prabakaran Dharmar, **Sivasudha Thilagar***(2024) Microalgal biomass and lipid synergy for omega fatty acid enrichment: A sustainable source for food supplements & nutraceuticals, *Algal Research*, Volume 80,2024,103514,ISSN 2211-9264,
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4. Zipora Tietel*, Devanesan Arul Ananth, **Thilagar Sivasudha**, Liron Klipcan (2024) Cassia auriculata L. – a mini review of phytochemical compounds and their antidiabetic mechanisms *Agriculture* [10.3934/agrfood.2024022](https://doi.org/10.3934/agrfood.2024022) IF-1.9
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Name and address of Refrees

<p>1. Dr. K Ruckmani Professor Department of Pharmaceutical Technology Anna University Tiruchirappalli, Tamil Nadu, India Mobile: 98424 84568 Email: rmani48@gmail.com</p>	<p>Dr. Roy Navarre Research Geneticist, Adjunct Professor, USDA-ARS Washington State University 24106 N. Bunn Rd Prosser WA. 99350 509-786-9261 Email: roy.navarre@ars.usda.gov</p>	<p>2. Dr Bikas Mandal Principal Scientist Division of Plant Virology Indian Agricultural Research Institute New Delhi 110012 India Mobile: 91 9868616510 Email: leafcurl@rediffmail.com</p>
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