

Dr.V.ANURADHA

Assistant Professor and Head
PG and Research Department of Biochemistry,
Mohamed Sathak College of Arts and Science
Sholinganallur, Chennai-600119.
Phone Number:
E.Mail ID:

Research Specialization:

Hepatoprotective/ Cardioprotective effects of phytochemicals
Anticancer activity
Nanoparticle synthesis and characterisation for bioactivity
Nanoencapsulation and drug delivery
Pharmacokinetics and Pharmacodynamics
Screening of bioactive component through insilico analysis.

Research Guidance:

M.Phil – Completed 09.

S.No	Name of the University	Completed	On-Going
1	DDE, Bharathidasan University	5	---
2	DDE, Vinayaka Mission University	2	---
3	University of Madras	2	---

Ph.D –

S.No	Name of the University	Completed/Awarded	On-Going
1	Bharathiar University	1	Nil
2	University of Madras	Awarded: 04 Thesis submitted: 03	02

Education Details:

Name of the Degree	College	University	Duration
PhD Biochemistry	Ethiraj College for Women	University of Madras	2007-2010
M.Phil Lifesciences	D.D.E	Manonmaniam Sundaranar University	2001-2003

M.Sc Biochemistry	Bharathi Womens College	University of Madras	1999-2001
B.Sc Biochemistry	Jaya College of Arts and Science	University of Madras	1996-1999

Academic Experience:

Organization /College	From	To	Designation
Mohamed Sathak College of Arts and Science	Feb 16 th 2022		Head
Mohamed Sathak College of Arts and Science	22/06/2012	15/02/2022	Assistant Professor
Gurunanak College	01/03/2004	31/05/2011	Lecturer
Sriram College of arts and Science	15/07/2001	31/10/2003	Lecturer

Awards and Honours:

Appointed as Question paper setter and examiner for the conduct and evaluation of Practical and Theory examination for B.Tech Biotechnology and Bioinformatics by

- i) SRM University**
- ii) Sathyabama University**
- ii) Bharathiar University**
- iv) Thiruvalluvar University**

Appointed as examiner for the conduct of Practical examination and Theory paper evaluation for Post graduate course in Biochemistry by D.G .Vaishnav College and Sri Sankara Arts and Science College, Chennai.

3. Appointed as Member, Board of studies, Bioinformatics, University of Madras from November 2010.

4. Honoured with Dr.APJ Abdul kalam Award for Teaching excellence-2018 by Marina labs, R & D, Chennai.

GRANTS OBTAINED:

- Tamilnadu State Council for Science & Technology has sanctioned a Student Project Scheme for the year 2008-'09.
- Grant of Rs.20000/ received from Tamilnadu State Council for Science and Technology towards Student project Scheme – 2012-13.
- Grant of Rs.7500/ received from Tamilnadu State Council for Science and Technology towards Student project Scheme – 2013-14.
- Grant of Rs.50000/ received from Tamilnadu State Council for Science and Technology towards Dissemination of Innovative Technology – 2018-19.

MEMBERSHIPS IN ACADEMIC AND PROFESSIONAL BODIES

Sl.No	Post Held	Name Of the University	Year
1.	Life member	International Society for Applied Life Sciences.	
2.	Examiner in Bioinformatics	University of Madras	2007-2013
3.	Examiner in Biochemistry	University of Madras	2004-Till Date

CONFERENCES ORGANISED:

S.No	Title of the Conference	National/ International	Duration
1.	International Conference on Unraveling Therapeutic Resources from Nature's Treasure	International	20 th and 21 st April 2022
2.	Emergence and Resurgence of COVID-19 from Biological Sciences perspectives	National	19 th March 2021
3.	YSSP-2019	National	2 nd May to 16 th May 2019
4.	NATCON' 2018: Interdisciplinary Research and Innovations in Biosciences	National	24 th and 25 th January

S.No	Title of the Conference	National/ International	Duration
5.	Emerging Trends Management of Infectious Disease and Public Helath-2016	National	4 th and 5 th Febraury 2016
6.	NATCON' 2014: Natural Products as Therapeutics: Current Scenario and Emerging Trends	National	18 th and 19 th September 2014
7.	Vicissitudes in the Science of Bioinformatics	National	March 2007

FDP/ WORKSHOPS ATTENDED:

S.No	Name of the Workshop	Held on	Organiser
1.	Research Methodology	22 nd December 2021	IQAC and MSCAS
2.	Intelluctual Property Rights	18 th December 2021	IQAC and MSCAS
3.	Quality Improvement and Sustenance in Higher Education	30 th January 2019	IQAC and MSCAS
4.	Mentoring-Being a great Teacher and Moving Towards Excellence	7 th December 2017	IQAC and MSCAS
5.	Stress management for successful life	16 th September 2017	IQAC and MSCAS
6.	Human Rights	11 th March 2017	NHRC, IQAC and MSCAS
7.	Quality Improvement and Sustenance in Higher Education	23 rd Febraury 2017	IQAC, and MSCAS

INTERNATIONAL AND NATIONAL CONFERENCES: [Presented and participated]

1. Attended two days National Symposium on “ Modern Biological Sciences: SyMBios-16 jointly Organised by Department of Biosciences and Research, SNMV College and Indian Institute of Crop processing Technology”
2. **National Seminar on Marine Resources**, Organised by Department of Zoology, The M.D.T.Hindu College, Tirunelveli in Collaboration with Seaweed Research and Utilization Association, CAS in Marine Biology, Annamalai University, Parangipettai, Tamilnadu, India. 3rd and 4th March 2016.
3. **National Conference on Transitional and Translational Scenarios in Biological Science** Organised by Department of Microbiology, Dr.N.G.P.Arts and Science College and Indian Association of Applied Microbiologists.9-10 September 2016.
4. **National Conference on Algal Biology and Biotechnology-2016**, jointly Organised by Department of Biotechnology, University of Madras and Krishnamurthy Institute of Algology, Tamilnadu, India. 24-26 November 2016.
5. **International Conference on Chemical and Environmental Research-2017**, Organised by Department of Chemistry, The Jamal Mohamed College, Trichy, Tamilnadu, India. 7th January 2017.
6. **National Conference on Biodiversity, Biology and Biotechnology of Algae**, Organised by CAS in Botany, University of Madras, Chennai , Tamilnadu, India. On 9th and 10th January 2017.
7. **National Conference on Emerging Horizons in Biotechnology**, Organised by Department of Biotechnology, Alpha arts and Science College, Chennai , Tamilnadu, India. 11th January 2017.
8. Attended two days National Symposium on “Modern Biological Sciences: SyMBios-17 jointly Organised by Department of Biosciences and Research, SNMV College.
9. **National Seminar on Environmental Toxicology and its impact on Biodiversity, sponsored by National Biodiversity Authority and TNSCST**, Organised by Department of Biotechnology, Kumararani Meena Muthaih College, Chennai, Tamilnadu, India. 1st September 2017.

- 10. National Conference on “Recent developments in Chemistry NCRDC-2018”,**
Organised by Department of Chemistry, The Jamal Mohamed College, Trichy, Tamilnadu, India on 20th January 2018.
- 11. International Conference on Nutraceuticals- Concepts and Applications in Diseases-2018,** Organised by Department of Medical BioChemistry, University of Madras, Tamilnadu, India. 16th and 17th February 2018.
- 12. Symposium on Chemical – Biology Interface:** Organised by Indian Chemical Society [Tamilnadu Branch] and Entomology Research Institute, Loyola College, Tamilnadu, India held on 11th August 2018.
- 13. 2nd International Conference on “Recent Trends in Nanotechnology,** Organised by Department of Biotechnology, Alpha Arts and Science College in Association with Institute of Biomedical Sciences, Mekelle University, Ethiopia on 7th September 2018.
14. Participated in International Conference on “Emerging Areas of Biotechnology for Human Welfare and Bio-Entrepreneurship (ICEBHE 2018)” organised by School of Lifesciences, B.S.Abdur Rahman Crescent Institute of Science and Technology on 11th and 12th September 2018.
15. Participated in “National Science Day Celebration on Some Perception On Science” held on 1st March 2019 organised by Mohamed Sathak College of arts and Science.
16. Participated in National conference on “ Climate change, Food security and Biodiversity” held on 6th September 2019 organised by Department of Biotechnology, Centre for Lifesciences, Kumararani Meena Muthaih College, Chennai, Tamilnadu, India.
17. Participated in National Symposium on “ Industrial Aspects of Biochemistry” held on 10th February 2020 organised by Department of Biochemistry, Soka Ikeda College of Arts and Science for Women, Chennai, Tamilnadu, India.

Publications

International Journals:

1. Zeyad I. Alehaideb, Anuradha Venkatraman, Mahadev Kokane, Syed Ali Mohamed, Saranya Rameshbabu, Rasha S. Suliman, Sahar S. Alghamdi, Hamad Al-Eidi, Bandar Alghanem, Maha-Hamadien Abdulla and Sabine Matou-Nasri, *Bursatella leachii* Purple Ink Secretion Concentrate Exerts Cytotoxic Properties against Human Hepatocarcinoma Cell Line (HepG2): *Molecules* 2022, 27, 826. <https://doi.org/10.3390/molecules27030826>.
2. Anuradha Venkatraman, Meivelu Moovendhan, Kumar Chandrasekaran, Saranya Ramesh, Ashashalini Albert, Sangeetha Panchatcharam, Syed Ali Mohamed Yacoob, Bhuvana P, Yogananth Nagarajan, Saravanan Govidasamy Kuppusamy, Alcoholic concentrate of microalgal biomass modulates cytotoxicity, apoptosis, and gene expression studied in hepatocellular carcinoma, *Biomass Conversion and Biorefinery*, <https://doi.org/10.1007/s13399-022-02786-6>. May 2022.
3. Sheba, L.A. and Venkatraman, A. 2021. Physicochemical characterization, phytochemical and HPTLC fingerprinting studies on fruit of *Couroupita guianensis*. *CMU J. Nat. Sci.* 20(4): e2021078.
4. S. ThangaMalathi and V.Anuradha. Lithium Induced Toxicity Profile of Oxygen Consumption, Haematological Parameters and Biochemical Profiles of *Channa punctatus* and *Oreochromis niloticus*. *Nat. Env. & Poll. Tech.* Vol. 19, No. 2, 2020. pp. 677-685.
5. Lawrence Anna Sheba, Venkatraman Anuradha. An updated review on *Couroupita guianensis* Aubl: a sacred plant of India with myriad medicinal properties. *J Herbmед Pharmacol.* 2020; 9(1): 1-11.
6. Bhuvana P, P.Sangeetha, V.Anuradha and **M.Syed Ali**. Spectral characterization of bioactive compounds from microalgae: *N.Oculata* and *C. Vulgaris*, 2019, *Biocatalysis and Agricultural Biotechnology* 19 (2019) 101094. 1878-8181/ © 2019 Published by Elsevier Ltd.
7. V. Suganya, V.Anuradha, M. Syed Ali, P. Sangeetha and P. Bhuvana. In Silico molecular docking of astaxanthin and sorafenib with different apoptotic proteins involved in

- hepatocellular carcinoma. "Biocatalysis and Agricultural Biotechnology". Vol 19: pp 1-7; 2019. [ISSN No: 1878-8181].
8. Gayathri.R, V.Anuradha, Vishnupriya.V and Mallika jain. Cytotoxic and Apoptotic potential of *Myristica Fragrans* Houtt (Mace) Extract on Human oral Epidermal Carcinoma KB cell lines. Brazilian Journal of Pharmaceutical Sciences , Volume 54; Issue 3; 2018; Page No. 01-07. ISSN: 2455-6548 . Impact Factor: RJIF 5.22.
 9. Gayathri.R, V.Anuradha, Vishnupriya.V and Mallikajainu. Anticancer Study of *Myristica Fragrans* Houtt (Mace) Extract on 4-Nitroquinoline-1-Oxide Induced Oral cancer in Rats. Asian J Pharm Clin Res, Vol 11, Issue 7, 2018, 189-192.
 10. Gayathri.R, V.Anuradha, Vishnupriya.V and Mallikajainu. Acute Toxicity Studies of Acetone Mace extract of *Myristica Fragrans* Houtt on Rats. Drug Invention Today, Vol 10, Issue 8, 2018, 1508-1510.
 11. Vijayabharathi.S, V.Anuradha and Rubalakshmi.G, Invitro Antioxidant and Antimicrobial Activity of *Phoenix Pusilla* root Extract. Asian J Pharm Clin Res, Vol 11, Issue 2, 2018, 194-197.
 12. Gayathri.R, V.Anuradha, Vishnupriya.V and Mallika jain. Evaluation of *In vitro* antioxidant and free radical scavenging potential of acetone mace extract (*MyristicaFragrans* Houtt). International Journal of Biology Research, Volume 3; Issue 2; April 2018; Page No. 97-100.
 13. Gayathri.R and V.Anuradha., Evaluation of *Antimicrobial activity* of acetone mace extract (*MyristicaFragrans* Houtt). International Science and Technology Journal, Volume 7; Issue 5; April 2018; Page No. 13-17.
 14. V Anuradha, P.Shankar, P.Bhuvana, M Syed Ali and N Yogananth. *Terminalia Arjuna* Bark Assisted Biosynthesis, Characterization and Bioactivity of Metal oxide Nanoparticles, Journal of Chemical and Pharmaceutical Research, 2017, 9(3):34-46, ISSN : **0975-7384**.
 15. Vijayabharathi.S, V.Anuradha, Ali Ahamad and Sani Mohamed Tajo, Thrombolytic Activity of *Curcuma caesia* and *Curcuma Amada*. Asian J Pharm Clin Res, Vol 10, Issue 2, 2017, 317-318.

National Journals:

1. Vijaya Bharathi S and Anuradha V: Spectral analysis and hypoglycemic effect of crude saponin extracted from *Phoenix pusilla* root. Int J Pharm Sci & Res 2021; 12(9): 5005-09. doi: 10.13040/IJPSR.0975-8232.12(9).5005-09.
2. Vijayabharathi Saravanan, Anuradha Venkatraman, Mohideen HS. Molecular docking of active compounds from *Phoenix pusilla* root extract against antidiabetic and anti-inflammatory drug targets. Journal of Applied Biology & Biotechnology 2021;9 (S1):26-30 .
3. Suganya Vasudevan, Anuradha Venkatraman, Yahoob SAM, Sasirekha, Jojula M, Sundaram R, Boomi P. Biochemical evaluation and molecular docking studies on encapsulated astaxanthin for the growth inhibition of *Mycobacterium tuberculosis*. J Appl Biol Biotech 2021;9(S1):31–39.
4. S. Vijaya Bharathi and V. Anuradha, Structure Prediction of 30s Ribosomal S3, RNA Polymerase II Proteins of Phoenix Pusilla using Bioinformatics Tools, Journal of Scientific Research. Volume 64, Issue 2, 2020. 142-145.
5. P. Sangeetha, V. Anuradha. Antigenotoxicity, Cytogenetic Assay measuring Chromosomal Aberration and Antimicrobial Activity of Methanolic Extract of Microalgae: Nannochloropsis oculata. Research J. Pharm. and Tech. 13(5):2297-2302. May 2020.
6. Suganya Vasudevan, Anuradha Venkataraman. Liposome Encapsulated Astaxanthin altered Biochemical Profile in Diethylnitrosamine induced Hepato Carcinoma on Swiss Albino Mice, International Journal of Pharmaceutical Sciences and Drug Research 2020;12(4):344-352.
7. MR Kokane, V Anuradha, K Revathi, SN Sethi and SY Metar. Genetic confirmation of ragged sea hare *Bursatella leachii* (De Blainville 1817) of Pulicat lake India with Mar Menor (SE Spain) species. Journal of Entomology and Zoology Studies 2020; 8(5): 545-548.
8. V. Suganya and V. Anuradha. CYTOPROTECTIVE ROLE OF ENCAPSULATED ASTAXANTHIN AGAINST HEPATOCELLULAR CARCINOMA (HepG2) CELL LINE. IJPSR, 2021; Vol. 12(1): 372-384.

9. Mahadev Rama Kokane, V Anuradha, K. Revathi , S.N. Sethil, Karthikeyan P., Marigoudar S.R., Surender C., Rajkumar Rajan and S.Y. Metar, Life cycle study of ragged sea hare, *Bursatella leachii* (Blainville, 1817) inhabiting the inter-tidal waters of Pulicat Lake, Tamil Nadu, India, *Eco. Env. & Cons.* 27 (February Suppl. Issue) : 2021; pp. (S297-S301)
10. Bhuvana P, V.Anuradha and M.Syed Ali. Cardio protective effect of methanolic extract of *chlorella vulgaris* against indomethacin-induced cardiotoxicity in zebrafish, *IJSRR* 2019, 8(3), 209-220
11. Thangamalathi.S and V.Anuradha. Lithium-A Review. *International Journal of Advanced research and review* (June 2019). 6(2): 932-941. ISSN: 2348-1269.
12. Thangamalathi.S and V.Anuradha. Assessment of Heavy Metal Contamination in Fish Gill Tissue From Ambattur Lake And Pulicat Lake, Tamilnadu India,. *International Journal of Scientific research and review* (2019). 8(2): 3993-3999. ISSN: 2279-0543.
13. Suganya.V and V.Anuradha. Toxicity evaluation of encapsulated and non-encapsulated Astaxanthin in Swiss albinos mice. *Journal of Pharmacognosy and Phytochemistry* 2019; 8(4): 899-908 ISSN: 2278-4136.
14. M. R. Kokane, V. Anuradha and K. Revathi, GC MS analysis and invitro anti-inflammatory activity of purple ink secreted by *Bursetella Leachii*, *ejbps*, 2019, Volume 6, Issue 10, 212-216. SJIF Impact Factor 4.918, ISSN: 2349-8870.
15. Ashwin Prakash Karurkar, V.Anuradha, A.Asrar Ahamed, M Mohamed Sihabudeen, and M Syed Ali. Spectral Characterization And In-Vitro Anti-inflammatory Potential Of An EDP Schiff Base. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, November – December 2019 RJPBCS 10(6), 99-104, ISSN: 0975-8585.
16. Anuradha Pradeep, S. Vijaya Bharathi, M. Syed Ali. Preliminary phytochemical, microscopic analysis and metabolite profiling of *Phoenix pusilla* root. *Journal of Applied Pharmaceutical Science* Vol. 10(03), pp 128-134, March, 2020.
17. Suganya.V, Anuradha.V and Syed Ali.M., Role of Inflammatory Markers in Tumorigenesis, *Int. J. Pharm. Sci. Rev. Res.*, 50(1), 2018; 19, Pages: 122-131. ISSN 0976 – 044X
18. Farhanaz.Bh, V.Anuradha, V.Suganya and Vijayabharathi, 2018. Antioxidant and Thrombolytic Activity of South Indian Date Palm-*Phoenix pusilla*. *European Journal of*

Pharmaceutical and medical Research, 6 (16):806-819. ISSN 2394–3211. SJIF Impact Factor 4.897.

19. Sangeetha P, V.Suganya , P.Bhuvana, V.Anuradha and M.SyedAli. Physicochemical Characterization and Drug standardization of *Nannochloropsis oculata*. *wjpmr*, 2018,4(8), 167-171
20. Thangamalathi.S and V.Anuradha. Role of Inorganic Pollutants in fresh Water Ecosystem. International Journal of Advanced Research in Biological Sciences (2018). 5(11): 39-49.
21. Thangamalathi.S and V.Anuradha. Seasonal Variations In Physico – Chemical Parameters of Seven Different Lakes In Chennai, Tamil Nadu, India. IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) Volume 12, Issue 9 Ver. III (September. 2018), PP 11-17. e-ISSN: 2319-2402,p- ISSN: 2319-2399.
22. S. Swetha, V. Anuradha, N. Yogananth and M. Syed Ali. GC-MS ANALYSIS AND INVITRO ENZYME INHIBITORY EFFECT OF DIFFERENT SOLVENT EXTRACTS OF *GARCINIA CAMBOGIA* FRUIT World Journal of Pharmaceutical Research, Vol 7, Issue 5, 2018.
23. Monisha E, Suganya V, Anuradha V, Syed Ali M. Antioxidant, Anti-inflammatory and Antidiabetic Activity of Some Novel Chalcone and Piperidine Derivatives. International Research Journal of Pharmacy and Medical Sciences. Volume 2, Issue 1, pp. 6-12, 2018.
24. V. Suganya, V.Anuradha, M. Syed Ali, P. Sangeetha and P. Bhuvana. Drug Safety Evaluation of Micro Encapsulated Astaxanthin for Sustained Drug Release. IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS) Volume 13, Issue 4 Ver. V (Jul – Aug 2018), PP 71-76. e-ISSN:2278-3008, p-ISSN:2319-7676.
25. Vijayabharathi.S and V.Anuradha, Antioxidant and Antidiabetic and Antiinflammatory Potential of *Phoenix Pusilla* root-An Unexplored Folklore Plant. IOSR Journal of Pharmacy and Biological Sciences, Vol 14, Issue 1, 2019, 30-36.
26. Suganya V, V.Anuradha, M.Syed Ali, P.Sangeetha and P.Bhuvana, 2017. *Invitro* anti inflammatory activity of microencapsulated and non encapsulated astaxanthin. International Journal of Chem Tech Research. 10 (10):186-195.
27. Suganya V, V.Anuradha, M.Syed Ali, P.Sangeetha and P.Bhuvana, 2017. *Invitro* antioxidant activity of microencapsulated and non encapsulated astaxanthin. Asian Journal of Science and Technology, 8(11):6391-6404.

28. Suganya V, V.Anuradha, M.Syed Ali, P.Sangeetha and P.Bhuvana, 2017. *In vitro* antidiabetic activity of microencapsulated and non encapsulated astaxanthin. *International Journal of Current Pharmaceutical Research*, 9(5): 90-96.
29. Suganya V, V.Anuradha, M.Syed Ali, P.Sangeetha and P.Bhuvana, 2017. Microencapsulation and Characterization of Astaxanthin using Different Agents. *Research Journal of Chemical Sciences*, 7 (12): 01-10.
30. Bhuvana P, V.Anuradha, M.Syed Ali, V.Suganya and P.Sangeetha, 2017. *In vitro* antioxidant activity of methanolic extract of *Chlorella vulgaris*. *International Journal of Advanced Research*, 5 (11):1465-1474.
31. Sangeetha P, V.Anuradha, V.Suganya and P.Bhuvana, 2017. *In vitro* antidiabetic and anti-inflammatory activity of methanolic extract of *Nannochloropsis Oculate*. *International Journal of Advanced Life Sciences*, 10 (3):290-300.
32. Farhanaz.Bh, V.Anuradha, V.Suganya and Vijayabharathi, 2017. *In vitro* Pharmacognosy of South Indian Date Palm-*Phoenix pusilla*. *World Journal of Pharmaceutical Research*, 6 (16):806-819.
33. Bhuvana P, V.Anuradha, M.Syed Ali, V.Suganya and P.Sangeetha, 2018. Drug Standardisation and *in vitro* anti-inflammatory and antibacterial activity of *Chlorella vulgaris*. *International Journal of Pharmacy and Biological Sciences*, 8 (1):113-120.
34. Bhuvana P, V.Anuradha, M.Syed Ali, V.Suganya and P.Sangeetha, 2018. Cultivation, Phytochemical Screening and Quantitative analysis of Phytochemicals in *Chlorella vulgaris*. *Bioscience Discovery*, 9 (2): 244-250.
35. Sangeetha P, V.Anuradha, V.Suganya and P.Bhuvana, 2018. *In vitro* Antioxidant and Radical Scavenging activity of Marine MicroAlga *Nannochloropsis Oculate*. *World Journal of Pharmacy and Pharmaceutical Sciences*, 7 (4):923-937.
36. Anuradha.V and Suganya.V. Microencapsulation and Nanoencapsulation: A Review, *International Journal of Pharmaceutical and Clinical Research* 2017; 9(3): 233-239. ISSN-0975 1556.
37. Anuradha.V and Suganya.V. Pharmacological activities of Astaxanthin, *International Journal of Pharmaceutical Research* 2017; 9(3): 6-10. ISSN- 0975 2366.