

**Dr. V.SUGANYA**

KVM Swarna Bhoomi,  
C block, F – 5, Moolathoppu,  
Melur road, Srirangam,  
Trichy- 620006.Tamilnadu.



**E-mail:** srisugan20@gmail.com

**Vidwan Id:** 359283

**Scopus Id:** 57200769504

**Orcid Id:** 0000-0002-0429-0004

**Google Scholar Id:** M\_BXtuAAAAAJ

**Career Objective:**

I strongly desire to procure knowledge and skills to build a successful career in life science and the organization in the regulated field of life science.

**Technical Skills:**

- ❖ Collect and analyze data
- ❖ Working and providing training and scientific input for students and laboratory staff.
- ❖ Advanced knowledge of laboratory procedures and processes
- ❖ Drafting of presentations and manuscripts for publication
- ❖ Bioinformatics- Molecular docking

**Work Experience:**

- Assistant professor in Department of Biochemistry from Dec 2015 to July 2016 in Theivanai Ammal College for women, Villupuram.
- Assistant professor in Department of Biochemistry from Dec 2019 to May 2024 in Shrimati Indira Gandhi College, Trichy.
- Assistant professor in PG Department of Biochemistry from June 2024 to till now in Holy Cross College (Autonomous), Trichy.

### **Educational Qualification:**

**2007-** Completed 10<sup>th</sup> std in state board (The Girls Higher Secondary School, Srirangam) with 85.4%

**2009-** Completed 12<sup>th</sup> std in state board (The Girls Higher Secondary School, Srirangam) with 77.25%

**2012-** Bachelor of Science in Biochemistry (Shrimati Indira Gandhi College, Trichy) under Bharathidasan University with 74%

**2013-** PG diploma in Bioinformatics (Shrimati Indira Gandhi College, Trichy) under Bharathidasan University with 88.5%

**2014-** Master of Science in Biochemistry (Shrimati Indira Gandhi College, Trichy) under Bharathidasan University with 80.25% **University 8<sup>th</sup> rank.**

**2015-** M.Phil Biochemistry in Asan Memorial College of Arts and Science, Chennai, under Madras University with 70.3%. **SAMBUVARYAR ENDOWMENT SCHOLARSHIP of Rs. 7000 was awarded – College Topper.**

**2017- 2022 -** Ph.D Biochemistry in Mohamed Sathak College of Arts and Science, Chennai, under Madras University.

### **Project Details:**

**M.Sc., project (Guide: Dr. T.Karpagam, M.Sc., M.Phil., DMLT., PhD.)**

**Title:** “GENOTYPING OF *ACE1* GENE IN STUDY SUBJECT WITH HYPERTENSION AND KIDNEY DISEASE”

□ **Duration: 3 months** (January 2013 to March 2014).

□ **Project institute:** CoRx Life sciences and Pharmaceutical (CLAP) Private Limited,  
Trichy.

**Work done:**

The possible relationship between the disorders of hypertension and renal complication in the polymorphism of ACE1 gene was correlated.

**M.Phil Project (Guide: Dr. S.T.Asheeba M.Sc., M.Phil., PhD.)**

**Title:** “ISOLATION, CHARACTERIZATION OF ASTAXANTHIN FROM SEA CRABS, RED MARIGOLD AND EVALUATING ITS PROPERTIES – ANTIOXIDANT, ANTIMICROBIAL ACTIVITY AND MICROENCAPSULATION”

□ **Duration: 1 year** (September 2014 to October 2015)

□ **Project institute:** Asan Memorial College of Arts and Science, Chennai.

**Work done:**

Astaxanthin was isolated from sea crabs, red marigold and was characterized. Their role as antioxidant, antimicrobial and microencapsulation was estimated.

**Ph.D Project (Guide: Dr. V Anuradha M.Sc., M.Phil., PGDBL., PGDCA., PhD.)**

**Title:** “CYTOPROTECTIVE ROLE OF LIPOSOME ENCAPSULATED AND NON-ENCAPSULATED ASTAXANTHIN AGAINST DIETHYLNITROSAMINE (DEN) INDUCED HEPATOCARCINOMA IN SWISS ALBINO MICE”

□ **Duration: 2 year** (January 2017 to December 2019)

□ **Project institute:** Mohamed Sathak College of Arts and Science, Chennai.

**Work done:**

- Astaxanthin was encapsulated using different methods and their role as antioxidant, anti-inflammatory, antidiabetic was determined.

- Drug safety of both encapsulated and non-encapsulated astaxanthin was tested.
- *In silico* Molecular docking of astaxanthin and sorafenib with various apoptotic proteins were analyzed.
- Acute and subacute toxicity of Liposomal Encapsulated and Non-encapsulated Astaxanthin
- *In vitro* studies of the drug like MTT, fluorescence analysis etc.,
- *In vivo* anticancer activity of Liposomal Encapsulated and Non-encapsulated Astaxanthin in Swiss mice.

#### Professional Details:

**Total Teaching Experience:** 05 Years

**No. of research articles published in UGC CARE / SCOPUS / WEB of SCIENCE indexed journals:** UGC Care – 10; SCOPUS - 10

**Total No. of research and review articles published:** 35

**Book Chapters:** 04

**Patent:** 05

#### Published Articles: Main Author

##### RESEARCH ARTICLES

1. Suganya V and Asheeba S T. Microencapsulation of astaxanthin using Ionotropic Gelation Method isolated from three crab varieties. **“International Journal of Current Pharmaceutical Research”**. Vol 7 issue 4: pp 96-99; 2015.

[https://innovareacademics.in/journals/index.php/ijcpr/article/view/9540/pdf\\_77](https://innovareacademics.in/journals/index.php/ijcpr/article/view/9540/pdf_77)

2. Suganya V and Asheeba S T. Antimicrobial and antioxidant activity of astaxanthin isolated from three varieties of crabs. **“International Journal of Recent Scientific Research”**. Vol 6 issue 10: pp 6753-6758; 2015.

<http://www.recentscientific.com/antioxidant-and-antimicrobial-activity-astaxanthin-isolated-three-varieties-crabs>

3. Suganya V and Asheeba S T. Isolation and characterization of astaxanthin from *Portunus sanguinolentus* (Three Spotted Crab), *Callinectes sapidus* (Blue Crab) and *Paralithodes brevipes* (Spiny King Crab). “**International Journal of Current Research**”. Vol 7 issue 11: pp 22176- 22193; 2015.

<https://www.journalcra.com/sites/default/files/issue-pdf/11256.pdf>

4. Suganya V, *et al.*, *In vitro* Anti-diabetic activity of Microencapsulated and Non-encapsulated astaxanthin. “**International Journal of Current Pharmaceutical Research**”. Vol 9 issue 5: pp 90-96; 2017.

<https://innovareacademics.in/journals/index.php/ijcpr/article/view/22147/12386>

5. Suganya V, *et al.*, Genotyping of Angiotensin Converting Enzyme (ACE 1) Gene in study subject with hypertension and Chronic Kidney Disease. **Research Journal of Pharmacy and Technology**. Vol 10 issue 8: pp 2607-2610; 2017.

<https://rjptonline.org/AbstractView.aspx?PID=2017-10-8-32>

6. Suganya V, *et al.*, *In vitro* Anti-inflammatory activity of Microencapsulated and Non-encapsulated astaxanthin. “**International Journal of ChemTech Research**”. Vol 10 issue 10: pp 186-195; 2017.

[https://www.sphinxsai.com/2017/ch\\_vol10\\_no10/1/\(186-195\)V10N10CT.pdf](https://www.sphinxsai.com/2017/ch_vol10_no10/1/(186-195)V10N10CT.pdf)

7. Suganya V, *et al.*, *In vitro* Antioxidant activity of Microencapsulated and Non-encapsulated astaxanthin. “**Asian Journal of Science and Technology**”. Vol 8 issue 11: pp 6391-6404; 2017.

<https://www.journalajst.com/sites/default/files/issues-pdf/5111.pdf>

8. Suganya V, *et al.*, Microencapsulation and characterization of astaxanthin prepared using different agents. “**Research Journal of Chemical Sciences**”. Vol 7 issue 12: pp 1-10; 2017.

<http://www.isca.in/rjcs/Archives/v7/i12/1.ISCA-RJCS-2017-079.pdf>

9. Suganya V, *et al.*, Drug safety evaluation of microencapsulated astaxanthin for sustained drug release. “**IOSR Journal of Pharmacy and Biological Sciences**”. Vol 13 issue 4: pp 71-76; 2018.

<http://www.iosrjournals.org/iosr-jpbs/papers/Vol13-issue4/Version-5/K1304057176.pdf>

10. Suganya V and Anuradha V. *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.

<https://www.sciencedirect.com/science/article/abs/pii/S1878818118308181>

11. Suganya V and Anuradha V. Toxicity Evaluation of encapsulated and non-encapsulated Astaxanthin In Swiss Albinos mice. **”Journal of Pharmacognosy and Phytochemistry”**. 2019; 8(4): 899-908.

<https://www.phytojournal.com/archives/2019/vol8issue4/PartP/8-3-557-914.pdf>

12. Suganya V and Anuradha V. Liposomal Encapsulated Astaxanthin Altered Biochemical Profile in Diethyl nitrosamine induced Hepato Carcinoma on Swiss Albino Mice. **“International Journal of Pharmaceutical Sciences and Drug Research”**. 2020; 12 (4): 1-9.

<https://www.ijpsdr.com/index.php/journal/article/view/1347/721>

13. Suganya V and Anuradha V. Cytoprotective Role of Encapsulated Astaxanthin Against Hepato Cellular Carcinoma (HepG2) Cell line. **“International Journal of Pharmaceutical Sciences and Research”**. 2021; 12 (1): 372-384.

<https://ijpsr.com/bft-article/cytoprotective-role-of-encapsulated-astaxanthin-against-hepato-cellular-carcinoma-hepg2-cell-line/>

## REVIEW ARTICLES

14. Suganya V and Anuradha V. Microencapsulation and Nano encapsulation –A review. **“International Journal of Pharmaceutical and Clinical Research”**. Vol 9 issue 3: pp 233-239; 2017.

[http://impactfactor.org/PDF/IJPCR/9/IJPCR\\_Vol9\\_Issue3\\_Article11.pdf](http://impactfactor.org/PDF/IJPCR/9/IJPCR_Vol9_Issue3_Article11.pdf)

15. Suganya V and Anuradha V. Pharmacological Activities of Astaxanthin review article. **“International Journal of Pharmaceutical research”**. Vol 9 issue 3: pp 6-10; 2017.

<http://www.ijpronline.com/ViewArticleDetail.aspx?ID=1141>

16. Suganya V, *et al.*, Role of inflammatory markers in tumorigenesis. **“International Journal of Pharmaceutical Science Review and Research”**. Vol 50 issue 1: pp 122-131; 2018.

<https://globalresearchonline.net/journalcontents/v50-1/19.pdf>

## Published Articles: Co-Author

17. Suganya V, *et al.*, Phytochemical analysis of *Cinnamomum zeylanicum* Bark and Molecular Docking of Procyanidin B<sub>2</sub> against the Transcription Factor Nf-kB. **“Free Radicals and Antioxidants”**. Vol 7 issue 2: pp 195-199; 2017.  
<https://www.antiox.org/index.php/fra/article/view/142/134>
18. Suganya V, *et al.*, *In vitro* antioxidant activity of methanolic extract of *Chlorella vulgaris*. **“International Journal of Advanced Research”**. Vol 5 issue 11: pp 1456-1474; 2017.  
[http://www.journalijar.com/uploads/441\\_IJAR-20905.pdf](http://www.journalijar.com/uploads/441_IJAR-20905.pdf)
19. Suganya V, *et al.*, Pharmacognosy of South Indian datepalm – *Phoenix pusilla*. **“World Journal of Pharmaceutical Research”**. Vol 6 issue 16: pp 806-819; 2017.  
[https://wjpr.s3.ap-south-1.amazonaws.com/article\\_issue/1512033286.pdf](https://wjpr.s3.ap-south-1.amazonaws.com/article_issue/1512033286.pdf)
20. Suganya V, *et al.*, *In vitro* antidiabetic and anti-inflammatory activity of methanolic extract of *Nannochloropsis oculata*. **“International Journal of Advanced Life Sciences”**. Vol 10 issue 3: pp 307- 317; 2017.  
[https://www.researchgate.net/publication/329704330\\_In\\_vitro\\_anti\\_diabetic\\_and\\_anti-inflammatory\\_activity\\_of\\_Methanolic\\_extract\\_of\\_Nannochloropsis\\_oculate](https://www.researchgate.net/publication/329704330_In_vitro_anti_diabetic_and_anti-inflammatory_activity_of_Methanolic_extract_of_Nannochloropsis_oculate)
21. Suganya V, *et al.*, Drug standardization and *In vitro* anti-inflammatory and antibacterial activity of *Chlorella vulgaris*. **“International Journal of Pharmacy and Biological Sciences”**. Vol 8 issue 1: pp 103-110; 2018.  
[https://ijpbs.com/ijpbsadmin/upload/ijpbs\\_5a746179851a0.pdf](https://ijpbs.com/ijpbsadmin/upload/ijpbs_5a746179851a0.pdf)
22. Suganya V, *et al.*, Cultivation, phytochemical screening and quantitative analysis of phytocompounds in *Chlorella vulgaris*. **“Bioscience Discovery”**. Vol 9 issue: pp 244-250; 2018.  
<https://biosciencediscovery.com/Vol%209%20No%202/Bhuvana%20244-250.pdf>

23. Suganya V, *et al.*, Antioxidant and thrombolytic activity of South Indian datepalm – *Phoenix pusilla*. “**European Journal of Pharmaceutical and Medical Research**”. Vol 5 issue 10: pp 245-254; 2018.  
[https://www.ejpmr.com/home/abstract\\_id/4295](https://www.ejpmr.com/home/abstract_id/4295)
24. Suganya V, *et al.*, *In vitro* antioxidant and radical scavenging activity of marine microalgae *Nannochloropsis oculata*. “**World Journal of Pharmacy and Pharmaceutical Sciences**”. Vol 7 issue 4: pp 923-937; 2018.  
[https://www.wjpps.com/Wjpps\\_controller/abstract\\_id/8766](https://www.wjpps.com/Wjpps_controller/abstract_id/8766)
25. Suganya V, *et al.*, Physicochemical characterization and drug standardization of *Nannochloropsis oculata*. “**World Journal of Pharmaceutical and Medical Research**”. Vol 4 issue 8: pp 167-171; 2018.  
<https://www.wjpmr.com/download/article/37072018/1532946974.pdf>
26. Suganya V, *et al.*, Antioxidant, anti-inflammatory and antidiabetic activity of some novel chalcone and piperidine derivatives. “**International Journal of Pharmacy and Medical Sciences**”. Vol 2 issue 1: pp 6-12; 2018.  
<http://irjpmr.com/wp-content/uploads/2018/11/IRJPMS-V1N6P113-18.pdf>
27. Suganya V, *et al.*, Estimation of Total Phenolic, Flavonoids and Antioxidant of methanolic extract of *Thalassiosira weissflogii*. “**World Journal of Pharmaceutical Research**”. Vol 8 issue 7: pp 1469-1481; 2019.  
[https://www.researchgate.net/publication/333532144\\_ESTIMATION\\_OF\\_TOTAL\\_PHENOLIC\\_FLAVONOID\\_AND\\_ANTIOXIDANT\\_OF\\_METHANOLIC\\_EXTRACT\\_OF\\_THALASSIOSIRA\\_WEISSFLOGII](https://www.researchgate.net/publication/333532144_ESTIMATION_OF_TOTAL_PHENOLIC_FLAVONOID_AND_ANTIOXIDANT_OF_METHANOLIC_EXTRACT_OF_THALASSIOSIRA_WEISSFLOGII)
28. Suganya V, *et al.*, *In vitro* Free Radical Scavenging Potential and Phytochemical Screening of *Pedilanthustithymaloides* (L.). “**Alochana Chakra Journal**”. Vol 9 issue 5: pp 7033-7042; 2020.
29. Suganya V, *et al.*, A review on chaotic covid-19 infection: pathophysiology and treatment insight. “**Journal of natural remedies**”. Vol. 21 issue 4 (s2): pp 50-59; 2020.  
<https://www.jnronline.com/ojs/index.php/about/article/view/215/208>



30. Suganya V, *et al.*, Nano phytoremediation for textile dye degradation using abutilon indicum silver nanoparticles: photo catalytic activities. “**Journal of medical pharmaceutical and allied sciences**”. Vol 10 issue 4: pp 3960-3964; 2021. Scopus and UGC care II.

[https://jmpas.com/admin/assets/article\\_issue/1642429511JMPAS\\_NOVEMBER-DECEMBER\\_2021.pdf](https://jmpas.com/admin/assets/article_issue/1642429511JMPAS_NOVEMBER-DECEMBER_2021.pdf)

31. Suganya V, *et al.*, Pharmacognosy Determination and in vitro Antioxidant, Anti-inflammatory, Antimycobacterial Activity of Salt Marsh Plants: *Sesuvium portulacastrum* and *Salicornia brachiata*. “**JKAU Marine Science**”. Vol 32 issue 1: pp 1-19; 2022.

<https://www.google.com/url?sa=i&url=https%3A%2F%2Fjournals.kau.edu.sa%2Findex.php%2FMARSCI%2Farticle%2Fdownload%2F526%2F83%2F1302&psig=AOvVaw1VyY7w2wG9T2mQdmpTMeq7&ust=1719806143654000&source=images&cd=vfe&opi=89978449&ved=0CAYOrpoMahcKEwjo6o6kt4KHAXUAAAAAHQAAAAAQBA>

32. Suganya V, *et al.*, Vaginitis phyto therapy against vaginal pathogen and molecular identification of isolated vaginal pathogen. “**Journal of Medical Pharmaceutical and Allied Sciences.**” Vol 12 issue 2: pp 5762 – 5767; 2022.

[https://jmpas.com/download/article/1682876608JMPAS\\_MARCH - APRIL\\_2023.pdf](https://jmpas.com/download/article/1682876608JMPAS_MARCH - APRIL_2023.pdf)

33. Suganya V, *et al.*, Anti-diabetic Potential of *Macrotyloma uniflorum* Leaves in an *in Vitro* and *in Vivo* Model. “**Ethno Med**”. Vol 17 issue 3-4: pp 133-139; 2023.

[http://krepublishers.com/02-Journals/S-EM/EM-17-0-000-23-Web/S-EM-17-3-4-000-23-Abst-PDF/S-EM-17-3-4-133-23-675-Manikandan-R/S-EM-17-3-4-133-23-675-Manikandan-R-Tx\[3\].pdf](http://krepublishers.com/02-Journals/S-EM/EM-17-0-000-23-Web/S-EM-17-3-4-000-23-Abst-PDF/S-EM-17-3-4-133-23-675-Manikandan-R/S-EM-17-3-4-133-23-675-Manikandan-R-Tx[3].pdf)

34. Suganya V, *et al.*, published an article on “**Preliminary Phytochemical Analysis And *in Vitro* Antioxidant, Anti-Inflammatory Activities of *Syringodium isoetifolium* and *Cymodocea serrulate* Extracts**” in Indian Journal of Natural Sciences 14(81); 65700-65710: 2023.

<https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://tnsrindia.org.in/JOURNAL/issue81/IJONS%2520-%2520DECEMBER%25202023%252>

[0-%2520FRONT%2520PAGE%252002.pdf&ved=2ahUKEwjtvZmliIeFAxUNplYBHb  
j2BhgQFnoECBcQAQ&usg=AOvVaw1QqgdzYpHK229Tr8-lrse2](https://www.frontiersin.org/articles/10.3389/fphar.2024.1746311/full)

35. Suganya V, *et al.*, *In vitro* Inhibitory effects of Polyherbal Formulation on Biofilm-forming bacteria in Chronic wounds. *Research Journal of Pharmacy and Technology*.2024; 17(4):1817-4.

<https://rjptonline.org/AbstractView.aspx?PID=2024-17-4-63>

### Book Chapters:

1. R. Manikandan, B. Varalakshmi and V. Suganya. **A review of *Psidium guajava***. Chapter in the book of “**Plants, Animal and Microbes**” 2022 with ISBN Number 978-93-93622-22-8 (Hard Copy).
2. T. Karpagam, B. Varalakshmi, Jannathul Firdous, A. Shanmugapriya, V. Suganya, **Bacterial Fish Diseases and Treatment**. Chapter in the book of “**Aquaculture Science and Engineering**” Springer 2022, 517-572, ISBN Number 978-981-19-0816-3.  
[DIO: 10.1007/978-981-19-0817-0\\_19. https://oceanrep.geomar.de/id/eprint/56810/](https://oceanrep.geomar.de/id/eprint/56810/)
3. T. Karpagam, A. Shanmugapriya, V. Suganya, B. Varalakshmi, Jannathul Firdous. **Chapter 10 - Advanced study of plant-microbe interactions in photosynthesis**, Editor(s): Prashant Swapnil, Mukesh Meena, Harish, Avinash Marwal, Selvakumar Vijayalakshmi, Andleeb Zehra, **Plant-Microbe Interaction - Recent Advances in Molecular and Biochemical Approaches**, Academic Press,2023,Pages 205-228, ISBN 9780323918756, <https://doi.org/10.1016/B978-0-323-91875-6.00011-6>.
4. B. Varalakshmi, V. Suganya, A. Shanmugapriya, T. Karpagam, S. Jannathul Firdous, R. Manikandan, R. Sridevi, V. Saradhasri, M. Abinaya, **Chapter 14 - Manipulation of cell wall components and enzymes on plant-microbe interactions**, Editor(s): Prashant Swapnil, Mukesh Meena, Harish, Avinash Marwal, Selvakumar Vijayalakshmi, And leeb Zehra, **Plant-Microbe Interaction - Recent Advances in Molecular and Biochemical Approaches**, Academic Press,2023,Pages 303-326, ISBN 9780323918756, <https://doi.org/10.1016/B978-0-323-91875-6.00010-4>.

### **Paper Presented:**

1. **Presented the paper titled “Synthesis of nanoparticles”** in UGC sponsored national conference on **Current Approaches and Challenges in Nanomaterial and Nanomedicine** held on 29<sup>th</sup> and 30<sup>th</sup> August, 2013 conducted by Rajah Serfoji government college, Thanjavur.
2. **Presented the paper on “*In vitro* Anticancer activity of *euphorbia hirta*”** in UGC sponsored national conference on Advances In Biology (NCAB’14) held on 6<sup>th</sup> and 7<sup>th</sup> January, 2014 conducted by school of biological science St. Joseph college(autonomous) Trichy.
3. **Presented a paper titled “Genotyping of Angiotensin Converting Enzyme Gene (ACE) In Study Subject with Hypertension and Kidney Diseases”** at International Conference on “Recent Advances In Synthetic Biology” held at Bishop Heber College, Tiruchirappalli, Tamilnadu, India, on 8<sup>th</sup> and 9<sup>th</sup> January 2015.
4. **Presented a paper titled “Microencapsulation of astaxanthin isolated from three crab varieties using Ionotropic Gelation Method”** at National Seminar Cum Conference on ‘Applications of Green Technologies for separation of Bioproducts’ held at Shree Sastha Institute of Engineering and Technology organized by Department of Biotechnology, on 2<sup>nd</sup> and 3<sup>rd</sup> September, 2015.
5. **Presented a research paper** in National Level Seminar on **“Recent Trends in Biochemistry and Biochemical Technology”** held on 21<sup>st</sup> February 2017 at King Nandhivarman College of Arts & Science, Thellar.
6. **Presented and published** in the National level Seminar on **“Environmental Toxicology and its impact on Biodiversity”** sponsored by the National Biodiversity

Authority (NBA) and TNSCST on 1<sup>st</sup> September 2017 at Kumararani Meena Muthaih College of Arts & Science (Co-Ed.), Gandhi Nagar, Chennai.

7. **Presented a research paper** in National conference on **“Recent Development in chemistry”** held on 20<sup>th</sup> January 2018 by the PG and Research Department of chemistry; Jamal Mohamed College (Autonomous), Trichy.

8. **Presented a paper** in National conference on **“Interdisciplinary Research and Innovations In Biosciences”** held on 24<sup>th</sup> and 25<sup>th</sup> January 2018 by the PG and Research Department of Biochemistry; Mohamed Sathak College of Arts & Science, Chennai.

9. **Presented an e-collage** in State level Seminar cum Workshop” held on 9<sup>th</sup> February 2018 organized by the Department of Biochemistry; Bharathi Women’s College (A), Chennai.

10. **Presented a paper** in International conference on **“Nutraceuticals –Concepts & Applications in Diseases”** held on 16<sup>th</sup> and 17<sup>th</sup> February 2018 by Department of Medical Biochemistry; University of madras, Taramani, Chennai.

11. **Presented a paper** in National symposium on **“Current Trends in Plant Sciences”** held on 22<sup>nd</sup> and 23<sup>rd</sup> February 2018 by the Department of Plant Biology and Plant Biotechnology; Madras Christian College (A), Chennai.

12. **Presented poster** in the 2<sup>nd</sup> International Conference on **“Recent Trends In Nanotechnology”** on 7<sup>th</sup> September 2018 organized by the Department of Biotechnology, Alpha arts & Science College Chennai & Institute of Bio-medical Sciences, Mekelle University, Etiopia.

13. **Presented a paper and Got Best oral presentation award** in the **“International Conference on Emerging Areas of Biotechnology for Human Welfare and Bio-entrepreneurship (ICEBHE 2018)”** organized by the School of Life Sciences, B.S.Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai, on 11<sup>th</sup> and 12<sup>th</sup> September 2018.

14. Participated in the International Conference on “**Trends, Strategies and Technical Advancements in Biological and Biomedical Sciences for Sustainability**” organized by the Research Department of Zoology, Seethalakshmi Ramaswami College, Trichy on 14th December 2022 & 15th December 2022.

15. Presented a paper entitled “**Hypoglycemic effect of Beta-Caryophyllene from the ethanolic extract of *P.guajava* Leaves**” in the “**International Conference on Phytotherapeutics (ICPT-2023)**” organized by PG & Research Department of Biochemistry, Sengamala Thayar Educational Trust Women’s College (Autonomous), Thituvarur on 10<sup>th</sup> February 2023.

16. Presented a paper entitled “**The Protective effects of *Euphorbia hirta* and *Euphorbia thymifolia* leaves against rats induced hepatotoxicity with carbon tetrachloride**” DBT-CTEP sponsored “**International Conference on Structural Biology and Drug Discovery**” conducted by PG & Research Department of Biochemistry in association with IQAC and Bioinformatics and Drug Discovery Society, Sengamala Thayaar Educational Trust Women’s College, Thiruvarur on 16.02.2024 & 17.02.2024.

#### **Workshop Attended:**

1. Trained in **National workshop on computer-aided drug design** held at DBT-BIF Centre, Holy cross college (autonomous), Trichy on 21<sup>st</sup> to 23<sup>rd</sup> August, 2013.
2. Participated in the technical session of the seminar/workshop, “**A Knowledge Platform for Molecular Structure prediction using bioinformatics**” on March 4<sup>th</sup> 2015 organized by Department of Bioinformatics, VELS University, Chennai.
3. Attended the **Immunobiology Academies Lecture workshop** conducted in VELS University, Pallavaram, Chennai from 11<sup>th</sup> to 13<sup>th</sup> March, 2015.
4. Participated in the “**State Level Animal Cell Culture Workshop**” Held on 15<sup>th</sup> and 16<sup>th</sup> February 2017 at the Department of Zoology, Dr. Ambedkar Government Arts College, Vyasarpadi, Chennai.

5. Participated in the “**National seminar cum workshop on Applications of Bigdata Analytics for Bioinformatics using Applied Statistical Tools**” held during 10<sup>th</sup> to 12<sup>th</sup> August 2017 at Karpagam Vinayaga College of engineering and Technology, Padalam, Kanchipuram.
6. Attended two days National Workshop on “**Training in Animal Experimentation and Phytochemical Techniques**” held on 23<sup>rd</sup> and 24<sup>th</sup> April 2018 conducted by PG and Research Department of Biochemistry, Srimad Andavan Arts & Science College (A), Trichy.
7. Attended the State level Workshop on “**Experimental Animal’s Model: Care Maintenance and Handling**” held on 26<sup>th</sup> February, 2021 organized by the Department of Biochemistry, J.J College of Arts and Science (Autonomous), Pudukkottai.
8. Attended the One day Workshop on “**Cytochemical Staining Techniques**” held on 15<sup>th</sup> September, 2022 organized by the Department of Biochemistry, Shrimati Indira Gandhi College, Trichy.
9. Attended digital modules of one month International Workshop on “**Bioinformatics for Drug Discovery 2023**” from 20.05.2023 to 17.06.2023 conducted by Decode life.

#### **Faculty Development Programme:**

1. Attended Two day programme on “**Impact of Emerging Technologies on Life Sciences**” conducted by Kongu Arts and Science College (Autonomous), Erode on 26.05.2020 & 27.05.2020.
2. Attended the “**Role of teachers in quality enhancement and Accreditation**” organized by Santhiram engineering College, Nandyal from 05.06.2020 to 11.06.2020.
3. Attended Faculty Development Programme on “**Methodology & Data Interpretation of Analytical Instrumentation Techniques**” conducted by Sathyabama Institute of Science and Technology, Chennai from 15.06.2020 to 19.06.2020.
4. Attended National Level Five Days Faculty Development Programme on “**Digital transformation and innovation in biological sciences- redefining the role of 2K**

- teachers”** on 26.07.2021 to 30.07.2021 Organized by PG department of Biochemistry, Holy Cross college, Trichy.
5. Participated in the Six Day National Level Virtual Faculty Enrichment Program on **“Aligning With The New Educational Era”**, conducted from 21 02 2022 to 26.02.2022 Organized by Primax foundation , St. Claret College Bengaluru, Shrimati indira gandhi college , Tiruchrippalli, and St. Francis Desales college Bengaluru.
  6. Attended Faculty enrichment Programme on **“Introduction to cloud computing”** on 26.2.2022 Organized by department of computer science, IT, and computer applications, Shrimati indira gandhi college, Trichy.
  7. Participated in **“IP Awareness/Training program”** under National Intellectual Property Awareness Mission on 26.04.2023 organized by Intellectual Property Office, India.
  8. Participated in Five Day International Virtual Faculty Development Programme on **“Recent Trends in Biological Sciences”** Organized by the Department of Botany from 16.10.2023 to 20.10.2023.
  9. Attended the **Naan Mudhalvan- A Massive up-skilling programme Bioinformatics** course conducted by Tamil nadu Government (TSDC) at Bharathidasan University from 08.01.2024 to 12.01.2024.
  10. Completed the **NEP 2020 orientation & sensitization** programme under Malaviya Mission Teacher Training Programme of UGC, organized by UGC- Malaviya Mission Teacher Training Centre, Bharathidasan University, Trichy from 05.02.2024 to 14.02.2024.

**Fund Received:**

Received fund of **Rs.75,000/-** for the conduct of a three days training programme on **“Training On Diet And Lifestyle Modifications To Combat Polycystic Ovary Syndrome Among SC/ST Adolescent Girls In Tiruchirappalli”** 14.03.2022 to 16.03.2022 from **Rajiv Gandhi National institute for Youth Development, Department of Youth Affairs, Ministry of Youth Affairs & Sports, Government of India, Sriperumbudur.**

### Patent:

1. **“Production of Eco-friendly Bio plastic Cups from Agro wastes”**. Inventor(s): Dr.B.Varalakshmi, Ms.N.Vijayalakshmi, Ms. K.Chitra devi, **Dr.V.Suganya**, Dr.S.Rethinavalli, Dr. N.Hemalatha, Ms. C.Mamtha, Ms. V.Sathyapriya, Ms. R.Ramya. **Published: 2023-03-17; Patent Application No: 202341014517.**
2. **Investigate the Potential Antidiabetic and hypolipidemic Effects of *Psidium guajava* leaves Ethanolic Extract against Streptozotocin-induced Diabetes and Lipidosis in Rats**. Inventor(s): Dr.R.Manikandan, Dr. A. Vijaya Anand, Dr. B.Balamuralikrishnan, Dr.T.Karpagam, Dr.A.Shanmugapriya, Dr.B.Varalakshmi and **Dr.V.Suganya**. **Published: 2023-08-18; Patent Application No: 202341037660.**
3. **Smart Device For Detecting Frozen Shoulder**. Inventor(s): Dr. P. Gajalakshmi, Dr. T.Karpagam, Dr. R. Manikandan, **Dr. V. Suganya**, Dr. B. Varalakshmi and Dr. A.Shanmugapriya. **Published: 2023-09-27; Design No: 392678-001.**
4. **Medical Waste Treatment Device**. Inventor(s): Dr. R. Manikandan, Dr. P. Gajalakshmi, Dr. T.Karpagam, Dr. A.Shanmugapriya, Dr. B. Varalakshmi and **Dr. V. Suganya**. **Published: 2024-01-23; Design No: 405416-001.**
5. **Brain Tumor Detection Device**. Inventor(s): Dr. B. Varalakshmi, Dr. T.Karpagam, Dr. A.Shanmugapriya, Ms.S.Gomathi and **Dr. V. Suganya**. **Published: 2024-02-17; Design No: 407914-001.**

### Personal strength:

- ❖ Maintain good working relationships and ability to problem solve.
- ❖ Quickly learn and retain new techniques and procedures depending on ability and time available.
- ❖ Plan and organize work for self and others.
- ❖ Meticulous attention to detail and record keeping in laboratory procedures.

### Personal Details:

Father's name : R. Vasudevan  
Date of birth : 11.12.1991



Nationality : Indian

Languages Known : Tamil & English

**Declaration:**

I hereby declare that the information furnished above is true to the best of my knowledge and I understand that any inaccuracy in the data provided will be heavily weighed down upon me.

Yours faithfully,  
**(Dr. V.SUGANYA)**