



**Dr. N. SUGANTHY**  
**ASSISTANT PROFESSOR**

**Contact**

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**Academic Qualifications:**

<b>Degree</b>	<b>Year of Passing</b>	<b>University / Institute</b>
<b>M. Sc. (Biochemistry)</b>	April 1999	University of Madras
<b>M. Phil (Biochemistry)</b>	October 2000	University of Madras
<b>Ph. D (Biotechnology)</b>	October 2013	Alagappa University

**Teaching Experience: 3Years**

<b>Designation</b>	<b>Institution</b>	<b>Department</b>	<b>Duration</b>
Assistant Professor	Alagappa University, Karaikudi	Nanoscience and Technology	Feb 2016 to till date
Teaching Assistant	Alagappa University, Karaikudi	Biotechnology	June 2004 to March2007

**Research Experience: 10 Years**

### **Additional Responsibilities**

1. Co-ordination- Sir C.V. Raman Club, DNST, Alagappa University
2. Department Co-ordinator – Village Placement Programme (2016-2017)
3. Member- Department Research Advisory Committee, DNST
4. Member-Department Purchase Committee, DNST
5. President, School of Biological Sciences Alumni Association
6. University Representative –DDE examination (May, 2016 & December, 2016)

### **Area of Research**

**Nanobiotechnology, Toxicology, Pharmacology, Natural Product Research**

### **Research Supervision / Guidance**

Program of Study		Completed	Ongoing
Research	Ph.D.	-	1
	M.Phil.	-	1
Project	PG	-	1
	UG / Others	-	-

### **Publications**

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
16	7	-	5	03

Cumulative Impact Factor (as per JCR) : 27.92  
h-index : 8  
i10 index : 7  
Total Citations : 257

### **Funded Research Projects**

#### **Ongoing Projects**

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		

1	UGC STG	2017	2019	Neuroprotective efficacy of nanoencapsulated multipotent phytodrug 7-methyl gallate and methoxycoumarin	10
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### Distinctive Achievements / Awards

1. Start-up grant for the newly appointed faculty by University Grants Commission, New Delhi, Jan-2016.
2. Dr. D.S. Kothari Post Doctoral fellow sponsored by University Grants Commission, Govt. Of India (2014-2017).
3. State Eligibility Test (SET) for Lectureship conducted by Government of Tamil Nadu, India.
4. CSIR SRF (Direct), New Delhi, India (2011-2013).
5. Jawaharlal Nehru Fellowship for doctoral studies, New Delhi, India (2008-2010).

### Events organized in leading roles

1. School Of Biological Sciences Alumni Meet organized by Alumni Office Bearers on 4th Jan 2017
2. National seminar on “Nanomaterials for Specialised Application –NMSA 2017” on Feb 9-10<sup>th</sup> 2017.

### Events Participated (optional)

#### Conferences / Seminars / Workshops: 26

1. One day workshop on Biosensor Agricultural, Environmental and Medical Sciences organised by Department of Bioelectronics and Biosensor held on 13-14<sup>th</sup> March 2017.
2. One day conference on Exploring commercialization of Biosensors in India organised by Department of Bioelectronics and Biosensor held on 14<sup>th</sup> March 2017.
3. International conferences on Advances in Biotechnology and Biotherapeutics (ICABBS-2017) organised by Sathyabama University, Chennai, India, held on 8-10<sup>th</sup> March 2017.
4. Two days workshop on Business oriented Hand on training on Analytical Instrumentation (HI-BOAT) organised by Department of Physics held on 2 and 3<sup>rd</sup> March 2017.
5. National seminar on Nanomaterials for Specialised Applications NMSA-2017, organised by Department of Nanoscience and Technology, Alagappa University, held on 9 and 10<sup>th</sup> February 2017.
6. National Workshop on Micropropagation and Business Commercialisation of Indian Medicinal Plants (MPBCIMP-2017) organized by Department of Botany, Alagappa University, held on 30 and 31st January 2017.
7. International Conference on “Recent Trends in Microbiology” (RTM-2016) organized by the Department of Microbiology, Alagappa University, held on 20<sup>th</sup> -21<sup>st</sup> December, 2016.
8. National conference on Recent trends in Biotechnology (Bio-Trends 2016) organised by National Institute of Ocean Technology, Chennai held on 19-21<sup>st</sup> October 2016.

9. International Workshop on Molecular Physiology, Therapeutics and Experimental Medicine organised by Department of Animal Health and Management, Alagappa University held on 06-07 September 2016.
10. National conference on Preparation and Characterisation of crystalline Materials held in the Department of Physics, Government Arts College, Tiruvannamalai on 4-5<sup>th</sup> August 2016.
11. International Conference on FACTS 2016 organised by School of Chemistry, Alagappa University on 21- 23<sup>rd</sup> March 2016.
12. 12<sup>th</sup> International Congress of Ethnopharmacology on “Traditional Medicines and Globalization –The Future of Ancient Systems of Medicine”, Jadavpur University, Kolkata, Feb 17-19, 2012
13. National seminar on “Role of microbes in Health, Agriculture and industry, Department of Biotechnology, Alagappa University, Karaikudi, March 26-27, 2012.
14. National Conference on “Evolutionary Trends in Biochemistry and Molecular Biology- BIOTRENDZ-2012” & “1st Annual Seminar on Alzheimer’s Disease - ALZINFO-2012”, Department of Biochemistry, Bharathidasan University September 20<sup>th</sup> & 21<sup>st</sup>, 2012.
15. National Seminar on Cellular and Molecular Neurobiology in Health and Diseases held at Department of Biochemistry, University of Madras, 11-12<sup>th</sup> February, 2011
16. National Level Seminar on Recent Advances in Biomedical Research on Infectious and Non-infectious Diseases (RABRINID-2011) held at Department of Biomedical Science, School of Basic Medical Sciences, Bharathidasan University, 13-14<sup>th</sup> October, 2011, Tiruchirappalli.
17. National workshop on Microbial Diversity: DNA to Database organized by the Bioinformatics infrastructure facility held in Alagappa University on 23-25 February 2012.
18. National workshop on microbial Diversity and Phylogenetics organized by the Bioinformatics infrastructure facility, Alagappa University, 19-21 January, 2011.
19. National Workshop on Bioinformatics organized by the Bioinformatics Infrastructure Facility, Alagappa University, Karaikudi on March 10-12, 2010.
20. National workshop on Advanced Techniques in Phytochemical analysis for herbal drugs held at SIMPRA, Thanjavur organized by ICMR on 24 to 26 September 2010.
21. Tamil Nadu Science Congress 9<sup>th</sup> Conference held at Alagappa University on 11-13 September 2009.
22. National workshop on Genome informatics organized by Bioinformatics Infrastructure Facility, Alagappa University, 05-07, January 2009.
23. International workshop cum seminar on Advances in Modern Biotechnology and Molecular techniques in Veterinary Parasitology: Diagnosis, Chemotherapy and Control held at Alagappa University, 17-21, March 2008.
24. National Workshop on Genomics, Proteomics and Bioinformatics organized by Bioinformatics Infrastructure Facility, Alagappa University, 14-16, March 2007.
25. International Conference on Biotechnological Approaches in Bioresource Management (ICBABM – 07) held at Bharathidasan University, 23-26, January 2007.

26. Exploration of ocean for development of biotechnological /pharmaceutical products: drug for neurological disorders from seaweeds. “XXX Indian Social Science Congress” held at Alagappa University, 27-31, December 2006.

## Membership in

### Professional Bodies

1. Life Member: Indian Science Congress
2. Life Member: Society of Biological Chemists

### Editorial Board

Referee for the Papers from reputed journals like BMC complementary and Alternative medicine, Food science and Technology

## Recent Publications

1. **Suganthi, N.;** Sheeja Malar, D.; Devi, K.P. In vitro antiaggregation and deaggregation potential of *Rhizophora mucronata* and its bioactive compound (+)- catechin against Alzheimer's beta amyloid peptide (25–35). *Neurological Research*, 2016, 38(12), 1041-1051. **(Impact factor: 1.4)**
2. **Suganthi, N.;** Sheeja malar, D.; Devi, K.P. *Rhizophora mucronata* attenuates beta-amyloid induced cognitive dysfunction, oxidative stress and cholinergic deficit in Alzheimer's disease animal model. *Metabolic Brain Disease* 2016, 31(4), 937-949. **(Impact factor: 2.603)**
3. **Suganthi, N.;** Devi, K.P. Nutritional Evaluation Of Asiatic Mangrove *Rhizophora Mucronata* – Its Proximate Composition, Amino Acid. *Int. J. Pharm. Sci. Res.* 2016, 7(6), 2537-2545. **(Impact factor: 1.54).**
4. **Suganthi, N.;** Devi, K.P. Protective effect of catechin rich extract of *Rhizophora mucronata* against  $\beta$ -amyloid-induced toxicity in PC12 cells. *Journal of Applied Biomedicine* 2016, 14, 137-146. **(Impact factor: 1.509).**
5. **Suganthi, N.;** Devi, K.P. In vitro antioxidant and anti-cholinesterase activities of *Rhizophora mucronata*. *Pharmaceutical Biology* 2015, 9, 1-12. **(Impact factor: 1.546).**
6. **Suganthi, N.;** Karthikeyan, K.; Archunan, G.; Pandian, S.K.; Devi, K.P. Safety and toxicological evaluation of *Rhizophora mucronata* (a mangrove from Vellar estuary, India): assessment of mutagenicity, genotoxicity and in vivo acute toxicity. *Molecular Biology Reports* 2014, 41(3), 1355-1371. **(Impact factor: 2.5)**
7. Devi, K.P.; Sakthivel, R.; Nisha, S.A.; **Suganthi, N.;** Pandian, S.K. Eugenol alters the integrity of cell membrane and acts against the nosocomial pathogen *Proteus mirabilis*. *Archives of Pharmacal Research* 2013, 36, 282–292. **(Impact factor: 2.49).**

8. **Suganthi, N.;** Arif Nisha, S.; Pandian, S.K.; Devi, K.P. Evaluation of *Gelidiella acerosa*, the red algae inhabiting South Indian coastal area for antioxidant and metal chelating potential. *Biomedicine and Preventive Nutrition* 2013, 3(4), 399-406.
9. **Suganthi, N.;** Pandian, S.K.; Devi, K.P. Neuroprotective effect of Seaweeds inhabiting South Indian coastal area (Hare Island, Gulf of Mannar Marine Biosphere Reserve): Cholinesterase Inhibitory effect of *Hypnea valentine* and *Ulva reticulata*. *Neuroscience Letters* 2010, 468, 216–219. **(Impact factor: 2.10).**
10. **Suganthi, N.;** Kesika, P.; Pandian, S.K.; Devi, K.P. Mangrove Plants Extract: Radical Scavenging Activities and Its Battle against Food Borne Pathogens. *Forschende Komplementarmedizin* 2009, 16, 41-48. **(Impact factor: 1.079).**
11. **Suganthi, N.;** Pandian, S.K.; Devi, K.P. Cholinesterase inhibitors from *Sargassum* and *Gracilaria gracilis*: Seaweeds inhabiting South Indian coastal area (Hare Island, Gulf of Mannar). *Natural Product Research* 2009, 23, 355-369. **(Impact factor: 1.05).**
12. **Suganthi, N.;** Pandian, S.K.; Devi, K.P. Cholinesterase inhibitory effects of *Rhizophora lamarckii*, *Avicennia officinalis*, *Sesuvium portulacastrum* and *Suevada monica*: Mangroves inhabiting Indian coastal area (Vellar Estuary). *Journal of Enzyme Inhibition and Medicinal Chemistry* 2008, 24 (3), 702-707. **(Impact factor: 3.42)**
13. Devi, K.P.; Suganthi, N.; Kesika, P.; Pandian, S.K. Bioprotective properties of seaweeds: In vitro evaluation of antioxidant activity and antimicrobial activity against food borne bacteria in relation to polyphenolic content. *BMC Complementary and Alternative Medicine* 2008, 8:38 **(Impact factor: 2.94).**

### **Review Articles in Journals**

14. **Suganthi, N.;** Devi, K.P.; Nabavi, S.F.; Braidy, N.; Nabavi, S.M. Bioactive effects of quercetin in the central nervous system: Focusing on the mechanisms of actions. *Biomedicine and Pharmacotherapy* 2016, 84, 892–908. (Impact factor: 2.2)
15. **Suganthi, N.;** Pandian, S.K.; Devi, K.P. Plants traditionally used in age related brain disorders (Dementia) - An ethanopharmacological survey. *Pharmaceutical Biology* 2013, 51, 492-523. (Impact factor: 1.54)
16. **Suganthi, N.;** Pandian, S.K.; Devi, K.P. Cholinesterase inhibitors from plants: Possible treatment strategy for neurological disorders- A Mini Review. In: *Ethnomedicinal Phytophores in Disease Management*. Chattopadhyay D (Ed), *IJBPS* 2009, **3(1)**, 87-103.

### **Review Articles in Books**

17. Devi, K.P.; **Suganthy, N.**; Kiruthiga, P.V.; Pandian, S.K. Liposome Technology and its Applications. In: Cellular and Biochemical Science Book, Tripathi (Ed). 2010, IK International Publishers, New Delhi. **ISBN:** 9788188237852
18. **Suganthy, N.**; Pandian, S.K.; Devi, K.P. Anti-Amyloidogenic Effect of Natural Products: Implications for the Prevention and Therapeutics of Alzheimer's disease. In: Natural Products: Research Reviews. Gupta, V.K. (Ed). 2012, 1, 371-408, M/S. Daya Publishing House, New Delhi.
19. **Suganthy, N.**; Pandian, S.K.; Devi, K.P. Review of Multipotent Antioxidants from herbal drugs to combat Alzheimer's disease. In: Natural Products: Research Reviews. Gupta, V.K. (Ed). 2013, 2, 77-117, M/S. Daya Publishing House, New Delhi.