

T. Karpagam., Ph.D.

Assistant Professor

Tiruchirapalli, India | +91-9790534371 | karpamuruga@gmail.com



SUMMARY

Academic, research background in the life sciences (more than 12 years' experience in institutions and laboratories) and big experience in co-ordination and management of student projects • Extensive experience in project management, assay development, scientific writing and journal publications • Solid analytical and organizational skills. Autonomous but value team work in multidisciplinary environments • Self-driven, problem solving-oriented, ability to rapidly react to new challenges • Knowledge in animal handling, sample collection and microbiological techniques.

RG score: 9.79 | H index: 8 | Citation Index: 175

WORK EXPERIENCE

**2007-till
date**

- *Assistant Professor, Shrimati Indira Gandhi College*
- Guided and mentored students in M.Sc research projects in the field of biomolecules, analytical techniques, clinical biochemistry, immunology, microbiology, biostatistics, enzymology, biotechnology, and cell and molecular biology.
- Evaluate, monitor and mentor student academic progress.
- Created, innovated and implemented career-enhancement programs and activities.
- Participated in departmental and college activities.
- Served and supported functional activities of departmental committees.
- Assisted and supported senior professors in their day-to-day tasks and functions.

**Area of
Specialization**

- Clinical biochemistry, Phytochemistry, encapsulation, antimicrobial, enzymology.

2013-2014

- *Association Secretary, Department of Biochemistry*

2015- 2017

- Organizing member for international seminars.

2015- 2018

- *Coordinator, Entrepreneurship development cell*

2010 – 2012

- Appointed as Exnora In-charge

2019 - 2020

1992-2002

- *Biochemist, Dr. Arunagiri Computer Diagnostics*
- Formulating strategies and plans,
- Administering resources for the achievement of Pre-defined organizational objectives, within allocated budgets.
- Regular calibration of lab instruments, and inventory control including supervision.
- Supervising lab activities and research development. Provided analytical feedback regularly for improving the process to produce high quality results.

EDUCATION

2014 <i>Dissertation</i>	Ph.D.	Biochemistry <i>Effect of Aloe Vera and Esomeprazole on peptic ulcer</i>	Madurai Kamaraj University
2005 <i>Thesis</i>	M. Phil	Biochemistry <i>Biochemical, hormonal and cytological studies in breast diseases</i>	Bharathidasan University
2004 <i>Thesis</i>	M. Sc	Biochemistry <i>Hormonal Assay of T3 and Prolactin on Benign Breast Disease</i>	Bharathidasan University
1990	B. Sc	Nutrition and dietetics	University of Madras

AWARDS and RECOGNITION

Amount sanctioned INR 200,000	Rajiv Gandhi National Institute of Youth Development (RGNIYD), (Institute of National Importance by the Act of Parliament No. 35/2012) Sriperumbudur, Tamil Nadu, Ministry of Skill Development, Entrepreneurship Youth Affairs & Sports, Government of India for the conduct of training programme entitled “ Health and Healthy lifestyle ”. Training was provided to 100 students from National college, Kurinji college, Srimad Andavan Arts and Science College and Shrimati Indira Gandhi college, Tiruchirappalli, Tamilnadu.
Reviewer	Indian Journal of Gastroenterology, A & V Publication and BMC Alternative medicine
Resource person	Entitled “Herbs as Nutraceuticals” to Santhanam Vidhyalaya school staff members. Entitled “Menstrual hygiene and management” to NSS Students.

ACTIVITIES

Workshops	IT enabled Services e- Literacy Data management using SPSS 19.0 Strategies for Biotech Entrepreneurship
Presentations	<i>Evaluation of antihepatotoxic effect of Avicennia marina against alcohol-induced liver injury</i> at the National Conference on Phytochemicals in Medicinal Plants and Food (MEDFOOD'18) <i>Credible Health benefits of Centella asiatica</i> at the symposium on Medicinal and Aromatic Plants (NASYMP'17) <i>Cardiovascular research</i> at the International Seminar organized by the Department of Biochemistry, St. Joseph's College <i>New frontiers and Challenges in Environmental Sciences</i> (BIOENVIRON-16) <i>Whole Grains for Healthy Life</i> at the Whole grains conference organized by IICPT <i>Exploring techniques in Biological Science</i> at Kunthavai Nachiyar Government Arts College for women <i>Food Processing Technologies – Challenges and solution for</i>

PUBLICATIONS

1. **Thirunethiran Karpagam**, B.Varalakshmi. A comparative study on the antidiabetic effects of *Trigonella foenum graecum* and *Caesalpinia bonducella* in alloxan induced diabetic rats BCIJ, 4(2), 2010: 89-97.
2. B.Varalakshmi, **Thirunethiran Karpagam**, *Caesalpinia bonduc (l.)roxb* as a novel drug having hypoglycemic effect on alloxan induced diabetic rats. International Journal of Pharma and Bio Sciences. 2 (1),2010 : 384 – 391.
3. Dr.Aruna Devaraj, **Thirunethiran Karpagam**, Evaluation Of Anti-inflammatory and Analgesic effect of *Aloe vera* leaf extract in rats. International Research Journal of Pharmacy.2 (3); 2011:103 – 110.
4. **Thirunethiran Karpagam**, B.Varalakshmi, J.Suguna Bai , S.Gomathi. Effect Of Different Doses Of *Cucurbita Pepo* Linn Extract As An Antiinflammatory And Analgesic Nutraceutical Agent On Inflamed Rats. IJPRD, 2011; 3(3):22; 184 – 192.
5. **T. Karpagam** and Dr.Aruna Devaraj, Studies on the Effect of *Aloe vera* On Antimicrobial Activity. IJRAP, 2(4), 2011; 1286 - 1289.
6. A. Pradeepaa, P. Venketalakshmi, **T. Karpagam**, A Comparative study of ranitidine and Esomeprazole on nitric oxide production in indomethacin induced ulcerated rats. J.Sci.trans. Environ. Technov. 2011, 4(4) : 151 – 154.
7. P. Lakshmi Prabha, S.Jannathul Firdous, **Thirunethiran Karpagam**, G.Banu Karthi1, S.R.Subashini, A New Photometric Method Of Assay Of Vitamin C In Tomato. IJIPLS, 1(2), 2011; 66 – 74.
8. Prabha P, **Karpagam T**, Varalakshmi B, Sohna Chandra Packiavathy A. Indigenous anti-ulcer activity of *Musa sapientum* on peptic ulcer. Phcog Res 2011; 3:232-8. (**Pubmed Indexed Journal**)
9. B.Varalakshmi, **Thirunethiran Karpagam**, P.Lakshmi Prabha, S.Jannathul Firdous, S.Gomathi. A comparative study on the effects of herbal and conventional medicine on cardio vascular disease. IJPRD, 2011; 3(6):13; 221 – 225.
10. M.Bharani, **Thirunethiran Karpagam**, B. Varalakshmi, G.Gayathiri and K. Lakshmi Priya Synthesis And Characterization Of Silver Nano Particles From *Wrightia Tinctoria*. IJABPT 2012;3 (1): 58 – 63.
11. M. Vanitha, **T. Karpagam** , B.Varalakshmi, R. Suja Pandian. Comparative Study on the Anti-Diabetic Potential of *Aloe vera* Gel and Fenugreek Seeds on Experimentally induced Diabetic Rats. Pharmacognosy Communications. 2012;2(1)57-61. **Indexed in ProQuest, Index Copernicus.**
12. S.Gomathi, A.Shanmuga Priya, V.Bharathi, B.Varalakshmi and **T. Karpagam**. Antimicrobial activity and phytochemical studies of flowers of *Tribulus terrestris*. IJBS, Joseph's International journal of biological sciences. 2012;1(1): 47 - 50.
13. M.Bharani, B. Varalakshmi, **T. Karpagam**, P.Anitha, and K.Sathya. Isolation and characterization of marine sponges – *Sigmadocia fibulatus*. IJBS, Joseph's International journal of biological sciences. 2012;1(1):31 – 35.
14. **T. Karpagam**, R.Arunadevaraj. Anti diabetic and antioxidant potential of aloe vera gel on experimentally induced Diabetic rats. Exploring Techniques in Biological Science. Edited by G.Viji Stella Bai. Proceedings of UGC sponsored National level seminar at Kunthavai Nachiyar College Government Arts College for women, Thanjavur.14, 15 December, 2011. 39 – 47.
15. V.Bharathi, B.Varalakshmi, S.Gomathi, A.Shanmugapriya, **T. Karpagam**. Antibacterial Activity of *Tridax Procumbens* Linn. International Journal of Pharma Sciences and Research (IJPSR) 2012; Vol 3(4): 364 – 367.

16. **T.Karpagam**, Aruna Devaraj, B.Varalakshmi, J. Sugunabai, David Raj. Encapsulation of *Aloe vera* using natural polymer. Food Processing Technologies – Challenges and Solution for Sustainable Food Security. Proceedings of MOFPI sponsored International Seminar at IICPT, Thanjavur. 4rd and 5th January 2013. 439 – 442.
17. J.Abarna Devi, M.Bharani, V.Bharathi, **T.Karpagam**. Studies on decolourization of molasses waste by various micro organism, IJPRD, 2013;3 (13):Pg 13- 16.
18. B. Varalakshmi, A. Vijaya Anand, **T. Karpagam**, J. Suguna Bai, R. Manikandan. *In Vitro* Antimicrobial and Anticancer Activity Of *Cinnamomum Zeylanicum* Linn Bark Extracts. International Journal of Pharmacy and Pharmaceutical Sciences. 2014; 6(1): 12-18. **Indexing : Indian Citation Index (ICI)**
19. J. Sugunabai, M. Jayaraj, **T. Karpagam**, B. Varalakshmi. Antidiabetic Efficiency of *Moringa Oleifera* And *Solanum Nigrum*. International Journal of Pharmacy and Pharmaceutical Sciences. 2014; 6(1): 40-42. **Indexing : Indian Citation Index (ICI)**
20. B. Varalakshmi, **T. Karpagam**, S.Gomathi, G.Gayathiri, V.Rathina kumar, B.Supraja. Studies on salinity removal capacity of cost effective adsorbent. International Journal of Pharmaceutical research and development. 2014; 5(11):067 – 071.
21. J.Suguna Bai, M.Jayaraj, **T.Karpagam**, R. Roy Rajakumari. Proximate, phytochemical and *invitro* antioxidants analysis of *Phyllanthus amarus*. World Journal of Pharmaceutical Research. 2014; 3(3) : 4747 – 4760. **Indexing :UGC no:47332**
22. Ms. J. Sugunabai, Mr. M. Jayaraj, **T. Karpagam** - “ Protective Effect of *Centella Asiatica* and *Phyllanthus Amarus* on Ethanol Induced Hepatotoxicity in Wistar Rats”, Asian Journal of Multidisciplinary Research.2015;1(5):15-19. **Indexing :UGC no:47531**
23. Ms. J. Sugunabai, & Mr. M. Jayaraj & **T. Karpagam** - “Analysis of Functional Compounds and Antioxidant of *Centella Asiatica*”, World Journal of Pharmacy and Pharmaceutical Sciences.2015;4(8):1982-1992. **Indexing: Indian Citation Index**
24. Aslam Khan, Vijaya Anand, Varalakshmi Badrinarayanan, **Karpagam Thirunethiran**, Pushpa Natarajan. In vitro Antioxidant and Cytotoxicity Analysis of Leaves of *Ficus racemosa*. *Free Radicals and Antioxidants*.2017; 7(1):8-12. **Indexing :UGC no:48850**
25. Varalakshmi B, Anand V, **Karpagam T**, Shanmugapriya A, Gomathi S, Sugunabai J, V.Suganya, S.Geetha, S.Sathia Nachiyar. Phytochemical Analysis of *Cinnamomum zeylanicum* Bark and Molecular Docking of Procyanidin B2 against the Transcription Factor Nf- κB. *Free Radicals and Antioxidants*.2017; 7(2):195-199. **Indexing: UGC no:48850**
26. Suganya V, Jannathul Firdous, **T Karpagam**, Varalakshmi B, Shanmugapriya A, Gomathi S, Sugunabai J. Genotyping of Angiotensin Converting Enzyme (ACE 1) Gene in study subject with hypertension and Chronic Kidney Disease. *Research Journal of Pharmacy and Technology*.2017;10(8):2607-2610. **Indexing: UGC no:10467, Scopus, Indian Citation Index**
27. Gomathi S, Jannathul Firdous, Bharathi V, Shanmugapriya A, Sugunabai J , **Karpagam T**, Geetha S, Sathia Nachiyar S, Anusuya. Phytochemical screening of Silver nanoparticles extract of *Eugenia jambolana* using Fourier Infra Red spectroscopy. *International Journal of Research in Pharmaceutical Sciences (IJRPS)*.2017;8(3):373-377. **Indexing : UGC no:23466, Scopus**
28. B.Varalakshmi, **T.Karpagam**, A.Shanmugapriya, J.Sugunabai, B.Ramya, P.Anitha, N.Abirami, K.Parkavi, W. Esther Rani, S.Kaviyalakshmi. Evaluation of antihepatotoxic effect of *Avicennia marina* against alcohol-induced liver injury. *International Journal of Pharmaceutics and Drug Analysis*. 2018; 6 (2): 225 – 231. ISSN: 2348-8948; **Indexing: UGC : 44824**
29. A. Shanmugapriya, S. Maneemegalai, B.Varalakshmi, **T. Karpagam**, J. Sugunabai, B. Ramya, A. Abinaya, S. Kamali, G. Praveena, C. Jeyachitra, M. Jeyapriya. A Combinative Evaluation Of Antioxidant Potential In *Tridax procumbens* and *Boerhavia diffusa*. *International Journal of Pharmaceutics and Drug Analysis*. 2018;6 (2): 197 – 202. ISSN: 2348-8948; **Indexing: UGC : 44824**
30. J. Sugunabai, M. Jeyaraj, **T. Karpagam**, B.Varalakshmi, S. Senthil Rani, A. Shanmugapriya, G. Kalaiyarasi, R. Renuga, S. Gomathi. Outlining of Phytochemicals and GC-MS Profile of *Centella*

asiatica. International Journal of Pharmaceutics and Drug Analysis. 2018; 6 (2): 252 – 256. ISSN: 2348-8948; **Indexing :UGC : 44824**.

31. **Karpagam.T**, Jannthul Firdous, Revathy, Shanmugapriya, varalakshmi B, Gomathi S, Geetha S, Noorzaid Mohamad. Anticancer activity of *Aloe vera* Ethanolic leaves extract against invitro cancer cells. Research Journal pharmacy and Technology;12(5):2019. **Scopus Indexed Journal**
32. Geetha S, Jannathul Firdous, **Karpagam T**, Varalakshmi B, Shanmuga Priya, Sugunabai J, Gomathi S. Studies on hepatoprotective and antiinflammntory activity of coix lacryma-jobi (linn). Asian J Pharm Clin Res, Vol 11, Issue 11, 2018, 290-293. **Scopus Indexed Journal**
33. Jannathul Firdous, **Karpagam T**, Varalakshmi B, Sugunabai J, Gomathi S, Revathy, Noorzaid Mohamad. Phytochemical study in ethanolic leaves extract of *Aloe vera* using Gas Chromatography. International Journal of Research in Pharmaceutical Sciences. 10(2)1470-1473. (**Scopus Indexed Journal**)