

Faculty Profile

1. **Name** : Dr.B.Mythili
Gnanamangai
2. **Designation** : Assistant professor
3. **Date of Joining** : 04-01-2016
4. **Nature of Association** : Regular
5. **E mail** :
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7. Academic Qualifications:

Sl.No	Degree	Period of study From-To	University/Institute	Subject	Marks (%)
1	Ph.D	2008-2012	Anna University, Chennai	Biotechnology	Highly commended
2	DNHE	2009-2010	Indira Gandhi Open University, Delhi	Nutrition and Health Education	'O'
3	M.Sc.,	2005-2007	Vivekanadha College of Arts and Science, Tiruchengode Periyar University, Salem	Biotechnology	71.7
4	B.Sc.,	2002-2005	Vellore Institute of Technology, Vellore.	Biotechnology	82.0
5	Higher Secondary	2001-2002	Jaya Matric. High. Sec. School Tiruninravur, Chennai.	Biology with Maths	90.6
6	Matric	1999-2000	Jaya Matric. High. Sec. School, Tiruninravur, Chennai.	Matriculation	80.1

8. Teaching Experience

- Assistant Professor at Sengunthar Arts and Science College, Tiruchengode from 22-09-2014 to 30-10-2015
- Assistant Professor at K.S.Rangasamy College of Technology, Tiruchengode from 04-01-2016 to till date

9. Projects

Post Graduate

- **Title:** "Prevalence of Dental Carries in Early Childhood and Extraction and Partial Identification of *Streptococcus mutans* in Thiruchengode"

Ph. D

- **Thesis title:** “Studies on *Cercospora theae* Petch, a causative organism of bird’s eye spot disease in tea plants”

10. Publications

1. Johnson, K.M., Anil Kumar, M.R., P. Ponmurugan and **Gnanamangai, B.M.** 2010. Ultraviolet radiation and its germicidal effect in drinking water purification. *J. of Phytol.* 2 (5): 12–19.
2. **Gnanamangai, B.M.** and Ponmurugan, P. (2010), Incidence and in vitro Pathogenecity of *Cercospora theae* Petch, a casual pathogen of Bird’s eye spot disease in tea leaves. Current scenario in Microbial Technology, Excel India publishers, New Delhi (ISBN:978-93-80043-97-X) pp. 219-225.
3. **Gnanamangai, B.M.**, Ponmurugan, P., Yazhini, R and Pragadeesh, K.S. 2011. PR Enzyme Activities of *Cercospora theae* causing bird’s eye spot disease in tea plants (*Camellia sinensis* (L.) O.Kuntze). *Plant Pathol. J.* 10 (1): 13-21.
4. **Gnanamangai, B.M.** and Ponmurugan, P. 2010. Bird’s eye spot disease (*Cercospora theae*) in tea estates of South India. *J. Mycol. Pl. Pathol.* 40(3): 387-391.
5. Ponmurugan, P., Elango, V., Marimuthu, S., Chaudhuri, T.C., Saravanan, D., **Gnanamangai, B.M.**, and Manjugarunambika, K. 2011. Evaluation of actinomycetes isolated from southern Indian tea plantations for the biological control of tea pathogens. *Journal of Plantation Crops.* 39 (1): 239-243.
6. **Gnanamangai, B.M.** and Ponmurugan, P. 2012. “Evaluation of various fungicides and microbial based biocontrol agents against bird’s eye spot disease of tea plants”, *Crop protection.* 32: 111-118. **[Impact factor: 1.598]**
7. Kakati, J.P., Ponmurugan, P., Rajasekaran, N. and **Gnanamangai, B.M.** 2013. Effect of textile effluent treatment plant sludge on the growth metabolism of Green gram (*Vigna radiata*L). *Int. J. Environment and Pollution.* 51(1): 79-90. **[Impact factor: 0.626]**
8. Ponmurugan, P., **Gnanamangai, B.M.** and Baby, U.I. 2013. Incidence, prevalence and clonal susceptibility of Phomopsis canker disease in southern Indian tea plantations. *Indian Phytopath.* 66 (1): 46-52.
9. **Gnanamangai, B.M.**, Stalin, A and Senthilmanickam, J. Evaluation of knowledge on cooking methods and food safety among women population aged around 40years. *International journal of food and Nutritional sciences* 04:34, 2015
10. Ponmurugan, P Manjugarunambika, K. and Gnanamangai, B.M. 2016. Impact of various foliar diseases on the biochemical, volatile and quality constituents of green and black teas. *Australasian Plant Pathology.* pp 1-11 DOI: 10.1007/s13313-016-0402-y. **[Impact factor: 0.953]**
11. Ponmurugan, P Manjugarunambika, K. Elango, V. and **Gnanamangai, B.M.** 2016. Antifungal activity of biosynthesised copper nanoparticles evaluated

against red root-rot disease in tea plants. *Journal of Experimental Nanoscience*. 11(13): 1019-1031. DOI: 10.1080/17458080.2016.1184766. **[Impact factor: 0.832]**.

12. Poornima, S., Ponmurugan, P., **Gnanamangai, B.M.**, Nagarjun, N., Ayyappadasan G. 2017. Evaluation of antimicrobial, antioxidant and anticancer activities of few macrolichens collected from eastern ghats of Tamil Nadu, India *Int. Res. J. Pharm.* 2017, 8 (3): 39-43 **[Impact factor: 1.101]**.
13. **Gnanamangai B.M.**, Ponmurugan P., Jeeva S.E., Manjugarunambika K., Elango V., Hemalatha K., Kakati J.P., Mohanraj R., Prathap S. 2017. Biosynthesised silver and copper nanoformulation as foliar spray to control bird's eye spot disease in tea plantations. *IET Nanobiotechnology*, 11(8): 917 – 928. doi: 10.1049/iet-nbt.2017.0023. **[Impact factor: 2]**.
14. Suganya, M., Kavitha, S., **Gnanamangai B.M.**, Ponmurugan P., .2017. Phytofabrication of silver nanoparticles using *Bacopa monnieri* leaf extracts and its effect on oxidative stress induced apoptosis of lung cancer *IET Nanobiotechnology*. 12(3):318 – 324. **[Impact factor: 2]**.
15. Kavitha S, Suganya M, Ponmurugan P, De Castro CS, Davies ML, **Gnanamangai BM**, and Sudhagar P. 2018. Green-Synthesis-Derived CdS Quantum Dots Using Tea Leaf Extract: Antimicrobial, Bioimaging, and Therapeutic Applications in Lung Cancer Cells. *ACS Appl. Nano Mater.* 1(4) 1683-1693.
16. S. Poornima, P. Ponmurugan, B. M. Gnanamangai, G. Gayathri, K. Dheenadhayalan and G. Ayyappadasan. 2018. Screening of biologically potent endolichenic fungi isolated from selected lichens habitat on Silver oak tree. *Vegetos* 31(3): 89-94.
17. Manjula, S., Shanmugasundaram, OL., **Gnanamangai, B.M.**, Pavithra, R., Kavitha, S., Ponnusamy, Ponmurugan. 2019. Plasma Treated Fabrics-Coated with Naturally Derived Ag-Nps for Biomedical Application, *IET Nanobiotechnology*, 2019, DOI: 10.1049/iet-nbt.2018.5218. **[Impact factor: 2]**.
18. Ponmurugan, P., **Gnanamangai, B.M.** and Manjugarunambika, K. 2019. Architectural effect of different tea clones on the development of blister blight disease. *Journal of Applied Botany and Food Quality*. 92: 7-14. **[Impact factor: 1.12]**.
19. Mani Suganya, Balasubramanian **Mythili Gnanamangai**, Balasubramani Ravindran, Soon Woong Chang, Arokiyaraj Selvaraj, Chandramohan Govindasamy, Mohamed Farouk Elsadek and Ponnusamy Ponmurugan*. Antitumor effect of proanthocyanidin induced apoptosis in human colorectal cancer (HT- 29) cells and its molecular docking studies. *BMC Chemistry* (2019) 13:21 <https://doi.org/10.1186/s13065-019-0525-7> (**Impact Factor - 2.284**).

20. Suganya Mani, Mythili **Gnanamangai Balasubramanian**, Ponmurugan Ponnusamy*, Paranthaman Vijayan. Antineoplastic Effect of PAC Capped Silver Nanoparticles Promote Apoptosis in HT-29 Human Colon Cancer Cells. *Journal of Cluster Science* (2019). <https://doi.org/10.1007/s10876-019-01510-1> (**Impact Factor - 1.715**).
21. Mani Suganya, **Balasubramanian Mythili Gnanamangai**, Chandramohan Govindasamy, Mohamed Farouk Elsadek, Arivalagan Pugazhendhi, Veeramani Chinnadurai, Arokiyaraj Selvaraj, Balasubramani Ravindran, Soon Woong Chang, Ponnusamy Ponmurugan. 2019. Mitochondrial dysfunction mediated apoptotic study of HT-29 cells through CS-PAC-AgNPs and its genotoxic effect in Zebra (*Danio rerio*) fish model for drug delivery system. *Saudi Journal of Biosciences*. Volume 26, Issue 4, May 2019, Pages 767-776 (**Impact factor: 3.12**)
22. Kavitha, S., Suganya, M., Ponnusamy, P., Catherine S.D.C., Matthew L.D., **Mythili Gnanamangai, B** and Sudhagar, P. 2019, 'Utilizing Waste Tea Leaves as Bio-surfactant in CdS Quantum Dots Synthesis and their Cytotoxicity Effect in Breast Cancer Cells', *Applied Surface Science*. (<https://doi.org/10.1016/j.apsusc.2019.05.050>) (**Impact Factor-4.43**)

11. International Conferences

1. Presented a paper entitled "Plasma modified textile treated with plant mediated silver nanoparticles for biomedical applications" and "Soil actinomycetes mediated ZnO nanoparticles for agriculture" in 5th International conference on nano science and nanotechnology (ICNST) 2018, organized by The International Institute of Knowledge Management (TIKM), Colombo, Sri Lanka during 13-14th Dec, **2018**. ISBN-978-955-3605-20-7.
2. Presented a paper entitled "Evaluation of knowledge on cooking methods, food nutrition and safety among women population aged around 40years" at an 6th International conference on emerging technologies in food and nutrition for health management organised by International Institute of food and nutritional sciences, New Delhi and Southern regional station, ICAR-National Dairy Research Institute, Bengaluru 14-15th May, **2015**.
3. Presented a paper entitled "Synthesis of ZnO Nanoparticles from indigenous microflora isolated from rhizosphere soil botanicals" at International seminar on Infection and Immunity organised by Department of Biotechnology, S.N.R sons College, Coimbatore on 18th February, **2015**.

12. National Conferences

1. Presented a paper entitled "Isolation and cultural characteristics of *Cercospora theae* from tea plants (*Camellia sinensis*)" at a National level

Technical Symposium organized by the Department of Biotechnology, Prathyusha Institute of Technology and Management, Tiruvellore held during 9 -10th March **2009**.

2. Presented a paper entitled “*In vitro* life cycle and rate of germination study on *Cercospora theae* Isolated from tea plants (*Camellia sinensis*)” at a National Seminar on “Emerging Trends in Biotechnology” organized by the Department of Biotechnology, Vivekananda College of Engineering for women, Tiruchengode during 10 -11th April, **2009**.
3. Presented a paper entitled “Isolation and molecular characterization of birds eye spot causing disease fungi in tea plantation” at 9th National level Biological Congress on Biotechnology: Great expectations and Achievements organized by the Centre for Biotechnology, MCAS, Muthayammal College of Arts and Science, Rasipuram, Tamil Nadu during 8-9th January, **2010**.
4. Presented a paper entitled “Incidence and *in vitro* pathogenicity of *Cercospora theae* causing birds eye spot disease in tea plantation” at Second National Seminar on Current scenario in Microbial Biotechnology organized by the Department of Biotechnology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu during 10th – 11th March, **2010**.
5. Presented a paper entitled “Biocontrol of *Cercospora theae*” at a National level conference on Implementation of Modern Biotechniques in Human Welfare organized by the Department of Biotechnology, Pavendar Bharathidasan College of Engineering and Technology, Tiruchirapalli, Tamil Nadu held on 2^{8th} March, **2011**.
6. Presented a paper entitled “Microencapsulation, fabrication and efficacy of curcuminoids from *Curcuma longa* on cotton crepe bandage” at a national conference on Emerging trends in agriculture and food processing techniques organized by Department of Biotechnology, Vinayaka Missions Kirupananda Variyar Engineering College, Salem during 24-25th Feb, **2017**.

13. Summer Training Programmes

1. GOI scheme and funding of TBI colleges Entrepreneurship development Institute, Chennai 13-06-2016
2. Attended five days training programme entitled “Second National workshop on Entrepreneurship Development programme for biotechnology graduates” organized by Department of Biotechnology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu during 1st – 5th March, **2011**.
3. Underwent a detailed training programme for one week on research methodology, entitled “23rd National level hands on training on Research Methodology and Biostatistics” organized by Department of Epidemiology, T.N. Dr.MGR Medical University, Chennai, during 19th – 23rd July **2010**.

4. Attended two days hands on training on “Genomic Research Analysis” organized by Department of Biotechnology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu during 11th – 12th August, **2009**.
5. Attended five days National seminar cum workshop on “Advances in Bioinformatics Tools in Molecular Research” organized by Department of Biotechnology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu during 19th – 23rd January, **2009**.
6. Attended one day programme on “Research Methodology” organized by ISTE staff chapter, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu on 4th April, **2009**.
7. Attended five days training programme entitled “First National workshop on Entrepreneurship Development programme for biotechnology graduates” organized by Department of Biotechnology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu during 6th – 11th April, **2009**.
8. Attended two days training programme entitled “Workshop on Techniques in Plant Tissue Culture and Histochemistry” organized by Department of Biotechnology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu during 22nd – 23rd September, **2008**.
9. Attended four days programme entitled “Workshop on Molecular Techniques” organized by Department of Biotechnology, K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu during 15th–18th September, **2008**.
10. Underwent a detailed training programme for four days Workshop on “Molecular Techniques” organized by Biogeneic, Namakkal, Tamil Nadu during 1st – 4th March **2007**.
11. Attended six days training programme entitled “Techniques in Animal Tissue Culture” organized by Department of Biotechnology, Hindusthan College of Arts and science, Coimbatore, Tamil Nadu during 10th – 16th August, **2006**.
12. Attended one day implant training in “Central Sericultural Germplasm Resources Centre Silk Board” Thally road, Hosur, Tamil Nadu on 14th June, **2004**.
13. Underwent a detailed training programme for five days entitledn “Hands on training programme on techniques in plant tissue culture” organized by University of Madras, Guindy Campus, Chennai, Tamil Nadu during 17th – 21st May **2004**.
14. Attended two day implant training in “Malladi Drugs and Pharmaceuticals Limited” SIPCOT, Ranipet, Vellore District, Tamil Nadu from 26th – 27th, November, **2003**.

14. Funds Received to Organize the Seminar

-Nil-

15. Invited Lecture Delivered

- **Lecture delivered at** Sethanampalayam Middle School at the event of An awareness program entitled “Healthy eating habits and side effects of Junk foods” PAC and PMC , Anthiyur on 25th July, 2017 for V and VIII Std school students about “Lecture entitled “Food groups, balanced diet and diet chart for the day”

16. Membership in Professional Bodies

- Life Member in Indian Science Congress Association for 10 years.
- Vice Chairman/ Life Member in Nature Science Foundation for 20 years.
- Life Member in Asian PGPR Society for 10 years
- Life Member in Indian Society of Mycology and plant pathology for 10 years

17. Awards and Recognitions

- Merit Scholarship for Best Academic Performance in 2005 at Vellore Institute of Technology, Vellore
- Best Poster in a National level Technical Symposium in 2007 at Bharathiyar University, Coimbatore
- Best Poster presentation in a National level Technical Symposium in **2009 at** Prathyusha Institute of Technology, Tiruvellore,
- First prize in “Bio-Business plan for Biotechnology” in 2009 at Kumaraguru College of Technology, Coimbatore, Tamil Nadu in the year
- Best Poster presentation in a National level Technical Symposium in 2010 at TNAU, Tamil Nadu Agricultural University, Coimbatore
- Best Poster presentation in a National level Technical Symposium in 2010 at MCAS, Muthyammal College of Arts and Science, Rasipuram
- Second prize in “Debate competition” in 2010 at Mendelian Society, MCAS, Muthyammal College of Arts and Science, Rasipuram, Tamil Nadu
- “Best Paper presentation” Award in a National level Technical symposium in 2010 at K.S.Rangasamy College of Technology, Tiruchengode, Tamil Nadu
- “Best Paper presentation” Award in an International level Technical symposium in 2015 at ICAR-NDRI, National Dairy Research Institute, Bengaluru.
- ARS-NET Qualified Agricultural Research Science National eligibility test in 2016 at ASRB, ICAR, New Delhi
- SET qualified in 2016 at Tamil Nadu State level eligibility test
- Young Woman Scientist-2016 in 2016 at Dr.Kalam Educational Trust, Chennai
- Young women faculty award-2017 in 2017 at Nature Science foundation, Coimbatore

- NPTEL topper award in 2017 at IIT, Roorkee and K.S.Rangasamy College of Technology
- Best Forum Award in 2017 at Dr.Kalam Educational Trust, Chennai
- Best Paper Award Cash award Rs.1724/- in 2018 at Centre for Technical Tamil Development, Anna University

18. **Research Activities**

- Presently Guiding 04 **Ph.D. students**
- Total **Citations: 107, h – Index: 06, i10 Index: 04**
- Co-ordination with various cells related to student activities in the Dept. (Describe the Role).
- PMC and PAC Club Co-ordinator: Conduct programs on different topics to promote awareness on various issues.
- Microbiology Lab Incharge: Maintains the lab and monitors the activities of the student entry in the lab on both working and non working
- Research Co-ordinator: Monitors the scholars and periodically motivate them and design their work
- DBT STAR College Co-ordinator: purchase instruments under the scheme, conduct advisory meeting, Prepare documents related to DBT Star College Scheme, UC, SE, Annual Report, PPT for Presentation
- Co-ordination with various administration works related to Institution (Describe the Role).FIST Co-ordinator: Prepare documents related to FIST, UC, SE,Annual Report, PPT for Presentation
- DBT STAR College Co-ordinator conduct advisory meeting, Prepare documents related to DBT Star College Scheme, UC, SE, Annual Report, PPT for Presentation
- Mitacs internship Co-ordinator: Conduct meeting regarding call for, Motivate the eligible student to take up the program, help them to select topics for internship, assist in applying and co-ordinating the interview program during selection
- Research advisory Board Co-ordinator: Conduct periodical meeting, motivate staff and students to apply funded projects

19. **Abroad Visit**

- Presented a paper entitled “Plasma modified textile treated with plant mediated silver nanoparticles for biomedical applications” and “Soil actinomycetes mediated ZnO nanoparticles for agriculture” in 5th International conference on nano science and nanotechnology (ICNST) 2018, organized by The International Institute of Knowledge Management (TIKM), Colombo, Sri Lanka during 13-14th Dec, **2018**. ISBN-978-955-3605-20-7.

20. **Personal Details**

Fathers Name : Balasubramanian.G

Date of Birth & Age : 01-04-1985 & 34 Years

Gender : Female

Marital Status : Married

Permanent Address : No:33 C, Tamil Kudil, Kootapalli Kudi Street,
Kootapalli, Thiruchengode-637215