

## Faculty Profile

1. Name : Dr. B. Bagyalakshmi
2. Designation : Professor
3. Date of Joining : 01.07.2005
4. Nature of Association : Regular
5. E mail : [bagyalakshmi09@gmail.com](mailto:bagyalakshmi09@gmail.com)
6. Mobile no. : +91 94431 15233



### 7. Academic Qualifications

S. No.	Degree	Subject	School/College / University	Year of passing	Percentage of marks
1	S.S.L.C		St. Therasa's Girls Hr .Sec.School. Karur	1989	77
2	HSC		Govt.Girls Hr.Sec.School, Karur	1991	78
3	B.Sc.,	Zoology	Nirmala College for Women-Coimbatore/Bharathiar	1995	79
4	M.Sc.,	Microbiology	Maharaja College for Women-Perundurai/ Bharathiar	1997	71 <b>University First Rank</b>
5	M.Phil.,	Microbiology	Maharaja College for Women-Perundurai/ Bharathiar	2005	64
6	Ph.D.,	Science and Humanities (Biotechnology)	Anna university, Chennai	2013	Highly Commended

## 8. Teaching Experience - 18 years 6 months

S.No.	Department	College / University / R&D centre	Position	From	To
1	Biotechnology	KSRCT/Anna University-Coimbatore	Professor	01.12.13	Till date
2	Biotechnology	KSRCT/Anna University-Coimbatore	Associate Prof.	01.06.12	30.11.13
3	Biotechnology	KSRCT/Anna University-Coimbatore	Asst.Prof	01.06.07	31.05.12
4	Biotechnology	KSRCT/Anna University-Coimbatore	Lecturer	01.07.05	31.05.07
5	Microbiology	Maharaja College For Women – Perundurai / Bharathiar	Lecturer	15.06.98	17.06.05
6	Microbiology	Erode Arts College For Women – Erode / Bharathiar	Lecturer	18.06.97	30.04.98

## 9. Projects:

**Post Graduate** : Degradation of textile dye by using different adsorbants.

**Ph. D.** : Evaluation of Potassium Solubilizing Bacteria In Tea Fields For Increased Productivity and Soil Health

## 10. Publications -International Journals

- 1. Bagyalakshmi, B.,** Lalitha Priyadarshini,S. and Balamurugan, A. Anticancer Activity of Bee Venom against Lung Cancer Cell Line (A549 Cells) Enhanced by Iron Oxide Nanoparticles Synthesized from *Syzygium aromaticum* . J of drug delivery and therapeutics, 9 (3), 248-254, 2019.
- 2. Bagyalakshmi, B.,** Nivedhitha, P. and Balamurugan, A. Studies on phytochemical analysis,antioxidant and antibacterial activity of *Ficus racemosa* L. leaf and fruit extracts against wound pathogens. Vegetos, 32(1), 58-63.
- 3. Bagyalakshmi, B.,** and Balamurugan, A. Inhibitory Activity Of Fresh Green Tea And Black Tea Extracts (*Camellia sinensis*) On Intestinal Pathogens Isolated From Diarrheal Sample. International Research Journal of Pharmacy, 8 (10), 93-98, 2017, ISSN:2230-8407, IF:0.75
- 4. Bagyalakshmi, B.,** Ponnurugan,P. and Balamurugan, A, Potassium solubilization, plant growth promoting substances by potassium solubilizing bacteria (KSB) from southern Indian Tea plantation soil, Biocatalysis and Agricultural Biotechnology, 12, 116–124, 2017, ISSN: 1878-8181, IF:0.4

5. **Bagyalakshmi, B.**, Ponmurugan, P. and Marimuthu, S. “Influence of Potassium solubilizing bacteria (KSB) on crop productivity and Quality of black tea (*Camellia sinensis*)”, African J. of Agri. Res., Vol. 7, No. 30, pp. 4250-4259, 2012.
6. **Bagyalakshmi, B.**, Balamurugan, A., Ponmurugan, P. and Premkumar, R. “Compatibility study of indigenous plant growth promoting rhizobacteria with inorganic and organic fertilizers used in tea (*Camellia sinensis*)”, Int. J. of Agr. Res., Vol. 7, No. 3, pp. 144-152, 2012.
7. **Bagyalakshmi, B.**, Sridhar, D. Ponmurugan, P., Smitha, A.J., Arti, K., Vidyashri, T., Vinothini, P and Sowmya, R. “Characterization, hemolysis and multidrug resistance among *Aeromonas* spp. isolated from Bhavani river, Erode, South India”. Recent Research in Science and Technology., Vol. 1, No.1, pp.014-019, 2009.
8. **Bagyalakshmi, B.**, Sridhar, D. Ponmurugan, P., “Antimicrobial activity of important Indian medicinal plants against pyogenic infection”. Journal of Phytology., Vol. 1, No.6, pp.391-396, 2009.
9. Balakrishnan, V., Arul, **B. Bagyalakshmi**, K. Karuppusamy and K. C. Ravindran. Mangrove compost used as an organic manure for evaluation of yield characteristics in *Vigna mungo*” EJEAFChe., 9 (5), 829-837, 2010.
10. Balakrishnan, V., **B. Bagyalakshmi**, M. Arul, K. Karuppusamy and K. C. Ravindran, “Enhancement of growth characteristics by application of mangrove compost on *Vigna mungo*”, EJEAFChe., 9 (5), 315-326, 2010.

### National Journals

1. **Bagyalakshmi, B.**, Ponmurugan, P. and Balamurugan, A. “Impact of different temperature, carbon and nitrogen sources on solubilization efficiency of native potassium solubilizing bacteria from tea (*Camellia sinensis*)”, J. Biosci. Res., Vol. 3, No. 2, pp. 136-142, 2012.
2. **Bagyalakshmi, B.**, Ponmurugan, P. and Balamurugan, A. “Studies on nutrient solubilization, antagonism and plant growth promoting traits of *Burkholderia cepacia* from tea soil”. Journal of Plantation crops Vol. 42 (3), 316-322, 2012
3. Balamurugan, A., **Bagyalakshmi, B.**, .Nepolean, P., Kuberan, T., Beulah, T., and Premkumar, R. Exploitation of *Pseudomonas* spp. for disease control and productivity in Tea. Int. J. Multidisciplinary Res. and Development, 2, (2), 227-235, 2015.

### International and National Conference

1. **Bagyalakshmi, B.** and Ponmurugan, P. “Studies on potassium solubilizing bacteria from southern Indian tea soils”, In: “Guidelines for Entrepreneurship Development Programme to Biotechnology Graduates”, (Eds) P. Ponmurugan and B. Nithya, Excel India Publishers, New Delhi, India, pp. 71-76, 2009.

2. **Bagyalakshmi, B.** and Ponmurugan, P. “Isolation of potassium solubilizing bacteria from tea soil” at National seminar on Climate change and environmental challenges conducted by Annamalai University, Tamil Nadu, India during 7-8, March, Manibharathi Achagam, Chidambaram, Tamil Nadu, pp.129, 2009.
3. **Bagyalakshmi, B.** and Ponmurugan, P. “Effect of various synthetic chemicals on the growth metabolism of potassium solubilizing bacteria” at International Conference on Computational Biotechnology and Nanotechnology (India) organized by Vivekanandha college of Engineering, Tiruchengode, Tamil Nadu, India during 24-26, February, WBH Publishers, Chennai, pp.7. 2010.
4. **Bagyalakshmi, B.**, Ponmurugan,P. and Balamurugan,A. “Studies on nutrient solubilization antagonism and plant growth promoting trails of *Burkholderia cepacia* from tea soil” at National Conference on Mechanization (Placrosym 2012) at Jenny Residency, Coimbatore during 12-15,December,2012
5. Sivapriya,K. and **Bagyalakshmi, B.**, ‘Biosynthesis of silver and copper nanoparticles from *Pseudomonas fluorescens* and its antagonistic activity against plant pathogens’ at National Conference on Bioresource utilization for sustainable food and energy production’ at Periyar University, Salem during 01-02,February,2018
6. Devisri, R. and **Bagyalakshmi, B.**, ‘Anticancer activity of green tea and black tea extracts on human cancer cell lines’ at National Conference on Bioresource utilization for sustainable food and energy production’ at Periyar University, Salem during 01-02,February,2018
7. Sowntharya, R. and **Bagyalakshmi, B.**, ‘Screening of potent antibiofilm activity of medicinal plant extracts against oral pathogens ’at National Conference on Bioresource utilization for sustainable food and energy production’ at Periyar University, Salem during 01-02,February,2018
6. **Bagyalakshmi, B.**, Nivedhitha,P and Balamurugan,A. ‘Evaluation of antibacterial activity of *Ficus racemosa* against pathogens associated with wounds of diabetic patients’ at international conference on Medicinal plants and its therapeutics at Kandasami Kandar’s college, Velur during 07-08, August,2018.

## 11. Books Published

S.No.	Name of all the Authors	Title of the Book	Name of the Publishers	ISBN Number
1.	Ponmurugan, P., <b>Bagyalakshmi, B.</b> and Muthiah, I.	Industry – Institute Interaction in Biotechnology	MacMillan Publishers New Delhi	978-93505-9057-7

## 12: Bacterial sequences submitted to NCBI:

<i>Burkholderia cenocepacia</i>	JQ610566
<i>Bacillus anthracis</i>	JQ610567
<i>Lysinibacillus sphearicus</i>	JQ610568
<i>Pseudomonas nitroreducens</i>	JQ610569
<i>Burkholderia cepacia</i>	JQ618330

### 13. Programme Undergone

- Participated in State level Workshop on Vermitechnology and Biofarming organized by department of botany A.P.A college for women, Palani on Jan 10, 2008.
- Participated in National Seminar on “Climate Change and Environmental Challenges” organized by department of botany, Annamalai University, Annamalai Nagar, Chidambaram during 7<sup>th</sup>-8<sup>th</sup> Mar, 2008.
- Participated in National Seminar on “Biotech Institute-Industry Partnership for Education and Training” organized by department of Biotechnology, Bannari Amman Institute of technology, Sathyamangalam, during 4<sup>th</sup>-5<sup>th</sup> Apr, 2008.
- Participated in AICTE sponsored short term training programme under QIP on Animal tissue culture organized by department of Biotechnology, IIT, Madras held during 20<sup>th</sup>-24<sup>th</sup> July, 2009.
- Attended one day State level Workshop on “PCR- A magic tool in biotechnology department of botany A.P.A college for women, Palani on April, 21, 2009.
- Participated in hands on training workshop entitled “Molecular techniques for identification of biocontrol agents”, organized by Department of Plant Science, Bharathidasan University, Trichy, Tamil Nadu, during 18<sup>th</sup> - 20<sup>th</sup>, October, 2011.
- Participated in National Conference on “Current Scenario in Biotechnology” organized by Department Biotechnology, KSR college of Technology, Tiruchengode, Tamil Nadu, during 27-29 Sep, 2012.
- Attended two days National conference on role of Biotechnology tools and techniques in waste water management of organized by Department Biotechnology, KSR college of Technology, Tiruchengode, Tamil Nadu, on 03.02.15 to 04.02.15.
- Participated in International conference on Biodiversity and bioactive natural Products for Human welfare-2016 organized by Govt. Arts College, Karur, from 10-12, Feb,2016.
- Participated in ‘STTC on Basic techniques in Mammalian cell and plant tissue culture Technique’ organized by Department of Biotechnology, Kumaraguru College of Technolgy, Coimbatore, Tamil Nadu, during 09th – 15<sup>th</sup>, July, 2017.
- Attended one day seminar on Improving API scores based on UGC regulation conducted by Library, KSR college of Technology, Tiruchengode, Tamil Nadu on 28th August, 2017
- Attended three days DST-NIMAT sponsored Entrepreneurship Awareness Camp conducted by Department of Biotechnology, KSR college of Technology, Tiruchengode, Tamil Nadu during 28<sup>th</sup>-30<sup>th</sup> August, 2017
- Attended one day training program on ‘Trainings for Creation of awareness among Farmers and other Stakeholders’ conducted by Department of Biotechnology, KSR college of Technology, Tiruchengode, Tamil Nadu, on 27<sup>th</sup>, March, 2017.

- Attended one day workshop on “Hands-on Training on Molecular Biology Techniques” conducted by Department of Biotechnology, KSR college of Technology, Tiruchengode, Tamil Nadu, on 27<sup>th</sup>, September, 2018.

#### 14. Global Certification courses Undergone & Passed

Completed NPTEL 12 Week course with 75% (Animal Biotechnology)

- **Reviewer** for J. of soil science and Plant nutrition.
- **Reviewer** for Journal of Horticulture and Forestry
- **Reviewer** for Archives of Agronomy and soil science
- Member of Board of studies in Periyar university, Salem.
- Biological scientist Member of Institutional Animal Ethical Committee (IAEC).

#### 15. Funded Projects:

S.No.	Title of the Project	Funding Agency	Year and No.
1.	Biosorption of Heavy metals from electronic Waste	Tamil Nadu State Council for Science and Technology, Chennai.	TNSCST/STU.PRJ/2006-07.dated 06.12.2006
2.	Screening and Identification of cellulase producing organisms from the Gut of Termite ( <i>Coptotermes Gestroi</i> ) and its Optimization BS-053 , 2017-18(Rs.10,000/-)	Tamil Nadu State Council for Science and Technology, Chennai.	TNSCST/STU.PRJ/2017-18.dated 27.01.2018
3.	Biosynthesis of Silver and Copper nanoparticles from <i>Pseudomonas fluorescence</i> and its antagonistic activity against common bacterial and fungal plant pathogens AS-017 , 2017-18 (Rs.10,000/-)	Tamil Nadu State Council for Science and Technology, Chennai.	TNSCST/STU.PRJ/2017-18.dated 27.01.2018

#### 16. Consultancy work:

Carried out consultancy project on Antimicrobial activity of medicinal plants against dental bacteria for KSR Dental Research Institute for the period of Sep,2017-Feb,2019 and generated Rs.30000/-

#### 17. Membership in Professional Bodies:

- Life time member in Society for Biotechnologists in India, Trivandrum, India
- Life time member in Indian Society For Technical Education, New Delhi, India

## 18. Programme organized:

1. Organized National **Conference** cum Scientific Meet on “Industry-Institute Interaction in Biotechnology” during December 22<sup>nd</sup> and 23<sup>rd</sup>, 2011.
2. Organized one day **workshop** in Advance Techniques in Immunotechnology” on 08.10.2015 in collaboration with ACME Progen Biotech India Pvt. Ltd, Salem, for IV B. Tech. Biotechnology students.
3. Organized the DBT, New Delhi Sponsored **Popular Lecture Series** Programme in Biotechnology for three days during 28.12.2015 and 30.12.2015.  
Ref.: DBT/CTEP/04/201501244 dated 17.08.2015).
4. Organized DBT-STAR Sponsored Two days **FDP** on Rapid Technologies on Food Processing and Pathogen Detection.( 01.03.2019 to 02.03.2019)

## 19. Personal Details :

Fathers Name : N. Balasubramanian

Date of Birth & Age : 06.02.1975 & 44 Years

Gender : Female

Marital Status : Married

Permanent Address : 329/5, L.V.B. Nagar Annexe  
L.N.S (Post)  
New Madurai Bye Pass Road  
Karur - 639 002.  
Tamil Nadu.