

**Dr. N. Hemalatha**

**Name** : Dr. N. Hemalatha  
**Designation** : Assistant. Professor  
**Department** : Department of Microbiology, Periyar University, Salem-11  
**Qualifications** : M.Sc., M.Phil.(BT), M.Phil.(BI), Ph.D., M.B.A.

**Educational Qualification:**

S.No	Degree	Branch	Month and Year of Passing	University	Class
1	B.Sc.	Zoology	April, 1991	Bharadhidasan University, Trichy	I
2	M.Sc.	Applied Microbiology	May, 1993	Bharathiar Univer., Coimbatore.	I
3	SLET	Microbiology	March, 1998	Bharadhidasan University, Trichy	-
4	M.Phil	Biotechnology	June, 2007	PRIDE, PU, Salem	I
5	Ph.D	Forest Ecology and Environment	August, 2009/(certificate awarded 28.10.2009)	FRI, Dehradun.	-
6	M.Phil	BioInformatics	March 2010	PRIST University, Thanjore	I
7	M.B.A	Human Resource Development	June 2010	PRIDE, PU, Salem.	I

**Area of Specialization** : Applied Microbiology, Forest Ecology and Environment

**M.Phil Guided** : **6 Guided , 3 (Guiding)**

**Ph.D Guided** : 2 Ongoing

**Fellowship Awarded** : SLET

**Countries Visited** : Ethiopia (employed under UNDP)

**Orientation and training** : Sponsored Orientation course-1

**programmes attended** UGC Sponsored workshop -1

UGC Sponsored Referesher course - 1

Training Programme in RFLP at Genetech, Salem.

**Membership in Professional:** Board of Studies Member and Examiner in Central Valuation in Microbiology – Periyar University, Member of Question paper setter- Alagappa Univ. Selection committee member for Research scholars under Non SAP scheme. Member of Indian Association of Applied Microbiologists ( Life Membership)

**Collegiate experience:**

S.No.	College/ Department	Designation and Branch	Period of Working Experience		Working Experience		
			From	To	Y	M	D
1	Allied Para Medical College, Karaikudi	Lecturer	4.11.93	9.12.95	2	1	5
2	Erode Arts College for Women	Lecturer	11.12.95	6.7.98	2	6	26
3	Manickam College of Arts and Science, Thanjavur.	Lecturer	1.2.99	18.6.99	-	4	18
4	P.R.College, Thanjavur.	Lecturer	23.6.99	31.5.2000	-	11	9
5	Vysya college, Thanjavur.	Lecturer	1.6.2000	28.2.2001	-	9	-
			1.6.2001	30.4.2002	-	11	1
6	Alemaya University, Ethiopia	Lecturer	30.9.2002	30.6.2004	1	9	1
7	Haramaya University, Ethiopia	Lecturer	27.9.2004	06.08.2006	1	10	9
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					11	3	9
8	Periyar University, Salem	Lecturer	28.10.2008	28.10.2014	6	-	4

**Total - 17 years - 3 months -13days**

**Total years of Teaching** 16 years + 7 months- (as on April 2014 ), ( - 8 months)

**Research experience:** 9 years

**Research Interests:** Applied Microbiology, Forest Ecology and Environment, Tannins, Biotechnology etc.

**Subjects Handled:** Genetics, Biotechnology, Immunology, Research Methodology, Parasitology, Soil Microbiology.

**Personal Research Programmes**

**1. Ph.D research work (FRI, Dehra Dun, 17.08.2009) PDC awarded-October 27th, 2009.**

Tannin microbe interactions in the biodegradation of the litter of *Acacia nilotica* (L.) Willd.

## 2. M.Phil research work (PRIDE-Salem, June-2007)

Phytochemical changes in the roots and leaves of *Bacopa monnieri* (L.) Wettst. as influenced by arbuscular mycorrhizal fungi.

## 3. M.Sc. Project (PSG College, Coimbatore, April-1993)

Studies on citric acid production by *Aspergillus niger*

## 4. Project undertaken at UG (SRC, Trichy, March-1991)

Quantitative estimation of carbohydrates in different stages of riboflavin supplemented silkworm moth – *Bombyx mori*.L.

## Research Training programme (Gene Tech- Salem, July-2002)

Training programme undertaken on “Restriction fragment length polymorphism (RFLP)” for one week in ‘The GENE TECH Research Institute of Biotechnology’, Salem.

## Publications

### Books (As author)

1. **Misrak Kebede and Hemalatha. N** (2006). Cell Biology. Published by the Department of Biology, Alemaya University, Ethiopia, East Africa.
2. **Meserek Chimdessa, Manikandan and Hemalatha. N** (2006). Cryptogamic Botany. Published by the Department of Biology, Alemaya University, Ethiopia, East Africa, 2006.
3. **N. Hemalatha** (2009). General Microbiology and Clinical Microbiology, Published by the Department of Microbiology, Periyar University, Salem-11.
4. **C.S. Ramanigopal, G. Palaniappan & N. Hemalatha** (2012). Leadership skills for individual development. 1<sup>st</sup> Edition. OM Sakthi Publications, Vellore, Prammadesam puduf, Erode-638315. Pp- 81. ISBN No: 978-93-80539-80-5.
5. **C.S. Ramanigopal, G. Palaniappan & N. Hemalatha** (2012) An Introduction of Labour Welfare. 1<sup>st</sup> Edition. OM Sakthi Publications, Vellore, Prammadesam puduf, Erode-638315. Pp- 99. ISBN No: 978-93-80539-12-3.

### Books and Journals (as Editor)

### Papers Published

1. **E. Poongothai, T. Shanmuga sundharam, N. Hemalatha\* and R. Balagurunathan** (2014). Evaluation of l-asparaginase from actinobacterial strain. *International Journal of Universal Pharmacy and Bio Sciences*. Volume 3, No. 2: 356-367. ISSN: 2319-8141
2. **Natarajan Hemalatha, Othumbam Kat Remadevi, Chandrasekaran Ramanigopal** (2012). Influence of Tannin in Soil Adjacent to *Acacia nilotica* (L.) Willd. ex Del. on Microbial Population. *Terrestrial and Aquatic Environmental Toxicology* 6 (1): 14-20 (ISSN 1749-0324)

3. **N. Hemalatha, O. K. Remadevi, K. C. Singh & C. Ramanigopal** (2012). Chemical characterization of *Acacia nilotica* tree parts. *Journal of the Indian Academy of Wood Science*. 9 (1):33-39 (ISSN 0972-172X), [DOI 10.1007/s13196-012-0061-8]
4. **C.S. Ramanigopal, G. Palaniappan & N. Hemalatha** (2012). Business Intelligence for Infrastructure and Construction industry. *Zenith International Journal of Business Economics & Management Research (ZIJBEMR)*, Vol.2 Issue 6: 71-86, ISSN: 2249-8826
5. **C.S. Ramanigopal, P.A. Joy, G. Palaniappan & N. Hemalatha** (2012). Knowledge Management Strategies and their roles. *International Journal of Engineering and Social Science (IJESS)*. Volume 2, Issue 2: 51-72, ISSN: 2249-9482.
6. **C.S. Ramanigopal, G. Palaniappan & N. Hemalatha** (2012). Need for Entrepreneurship Education in School Students, *International Journal of Physical and Social Sciences (IJPS)*, Volume 2, Issue 3: 243-259, ISSN: 2249-5894.
7. **C.S. Ramanigopal, G. Palaniappan & N. Hemalatha** (2012). Social Networking: Problems and Prospects of the Knowledge Society. *International Journal of Research in Management, Economics and Commerce (IJRMEC)*. Volume 2, Issue 2: 116-129.
8. **C.S. Ramanigopal, G. Palaniappan, N. Hemalatha & T. Murugan**. (2011). Business Process Reengineering and its Applications. *International Journal of Management Research and Review (IJMRR)*, Volume 1, Issue.5: 275-288. ISSN: 2249-7196
9. **C.S. Ramanigopal, G. Palaniappan, N. Hemalatha & A. Mani** (2011). Customer Perception towards Internet Banking Services with special reference to Erode District. *Asian Journal of Business and Economics*. Volume 1, No. 1.4: 1-17. ISSN: 2231-3699

#### **Papers communicated**

1. Effect of Riboflavin supplement on the growth and biochemical composition of silkworm, *Bombyx mori* L.- *Entomological sciences*
2. Influence of *Acacia nilotica* tannins on nitrifiers and nitrification in rhizosphere soil. *Forest Ecology and Management*
3. Enumeration of soil nitrogen cycling microbes in rhizosphere soil treated with different composts – *Indian journal of Agricultural sciences*

#### **Abstracts (Proceeding publications)**

#### **National Seminars**

1. *Comparing the impact of various teaching strategies on student's output* – presented in the national seminar on 'Innovative teaching strategies', 22<sup>nd</sup> & 23<sup>rd</sup>, January 2009, conducted by Education department, Periyar University, Salem

2. ***Role of Ecological factors influencing the prioritization of organization's decision*** – presented at the National seminar on Global business environment- challenges and opportunities, 28<sup>th</sup> & 29<sup>th</sup>, January 2009 organized by PRIMS, Periyar University, Salem.
3. **Functional characterisation of heterotrophic nitrifying and aerobic denitrifying bacteria *Lysinibacillus fusiformis* strain GS-1(HQ026249) and its immobilisation for wastewater treatment systems** (Kumudha. C & N. Hemalatha)-National Seminar on 'Recent trends in microbial technology with reference to extremophiles' -21<sup>st</sup> & 22<sup>nd</sup>, October 2010, held at Microbiology Department, Periyar University, Salem.pg-68-69
4. **Biosynthesis of folic acid using probiotic *Lactobacillus* species isolated from milk and milk products** (Sakthipriya. R & N. Hemalatha)- National Seminar on 'Recent trends in microbial technology with reference to extremophiles' -21<sup>st</sup> & 22<sup>nd</sup>, October 2010, held at Microbiology Department, Periyar University, Salem.pg-72
5. **A study on the production of biosurfactants and lipases from *Pseudomonas gessardii* and *Clostridium diolis* using slaughterhouse lipid wastes and edible oils and characterization** (Vinotha. C & N. Hemalatha)-National Seminar on 'Recent trends in microbial technology with reference to extremophiles' -21<sup>st</sup> & 22<sup>nd</sup>, October 2010, held at Microbiology Department, Periyar University, Salem.pg-83
6. **Possible enhancement of Type 1 Diabetes by viral infections'** (Poornima. S & N. Hemalatha) - Current trends in Viral diseases & its diagnosis – 2<sup>nd</sup> - 4<sup>th</sup>, March 2011, held at Microbiology Department, Periyar University, Salem.pg -51.
7. **'Diagnosis and treatment for viral meningitis'**(Vijayalakshmi. M & N. Hemalatha)- Current trends in Viral diseases & its diagnosis – 2<sup>nd</sup> - 4<sup>th</sup>, March 2011 held at Microbiology Department, Periyar University, Salem.pg - 61
8. **'Diagnosis of viral infections using nanotechnology'**(Susikala. M & N. Hemalatha) - Current trends in Viral diseases & its diagnosis – 2<sup>nd</sup> - 4<sup>th</sup>, March 2011 held at Microbiology Department, Periyar University, Salem.pg-62.
9. **Studies on bacterial foot ulcer infections of diabetic patients and its diagnosis** (Susikala. M & N. Hemalatha)- National symposium on applications of Biotechnology in Medical field-current scenario and future prospects-28<sup>th</sup> &29<sup>th</sup> September,2011 held at Department of Biotechnology, VMKV Engineering college, Salem.
10. **Comparative Studies on The Antimicrobial Activity of Various Types of Mushroom** (Kalaivani. G & Hemalatha. N) - Current Trends in Infectomics, held on 20<sup>th</sup> & 21<sup>st</sup> February, 2014 in the Department of Microbiology, Periyar University, Salem.pg - 25
11. **Antibiotic Susceptibility of Bacterial Pathogens from Diabetic Foot Ulcer Patients** (Poongothai. E & Hemalatha. N) - Current Trends in Infectomics, held on 20<sup>th</sup> & 21<sup>st</sup> February, 2014 in the Department of Microbiology, Periyar University, Salem. **Pg-33**

12. **Microbiology of Tannery Effluents from Central Treatment Plants** (Sakthivel.M & Hemalatha. N) - Current Trends in Infectomics, held on 20<sup>th</sup> & 21<sup>st</sup> February, 2014 in the Department of Microbiology, Periyar University, Salem.pg-52
13. **Charecterization of silver nanoparticles synthesized from *Catheranthus roseus* (*Vinca rosea*) leaf extract and their antibacterial activity** (Poongothai. E, Arul. M & Hemalatha. N) – National Seminar on “Challenges for Microbiologists to Become Bio-Entrepreneurs” held on 27<sup>th</sup> August, 2014 in the Department of Microbiology, Periyar University, Salem.

#### *National Conference*

14. ***Influence of Acacia nilotica tannins on nitrifiers and nitrification*** – presented in the 6<sup>th</sup> National conference of Indian association of Applied Microbiologists ( IAAM) on the theme “ Microbial ecology, Biodiversity, Molecular techniques and its Prospects organized under CSIR and DST New Delhi, held on 12<sup>th</sup> &13<sup>th</sup> December 2008 at KK.C., Velur. Pg 43.
15. **Studies on multidrug resistant *E.coli* in diabetic foot infections and its diagnosis** (Susikala. M & N. Hemalatha) - 9<sup>th</sup> IAAM National Conference on “Current Trends in Microbial Technology” (CTMT-2011)” held on 14-15 October 2011 in the Department of Microbiology, Periyar University, Salem. pg 56-57
16. **Antibacterial activity of pigment producing *Exiguobacterium* spp. Against food borne pathogens** (Poornima. S & Hemalatha. N) - 9<sup>th</sup> IAAM National Conference on “Current Trends in Microbial Technology” (CTMT-2011)” held on 14-15 October 2011 in the Department of Microbiology, Periyar University, Salem. pg- 81
17. **Microbial and Molecular Characterization of *Salmonella typhimurium* isolated from various poultry related sources** (Vijayalakshmi. M & Hemalatha. N) - 9<sup>th</sup> IAAM National Conference on “Current Trends in Microbial Technology” (CTMT-2011)” held on 14-15 October 2011 in the Department of Microbiology, Periyar University, Salem. **Pg-82**
18. **Consumer awareness in microbial product industries-** National Conference on consumer protection (NCCP)-22<sup>nd</sup> February 2012, Organised by Citizen consumer club, Kamadhenu arts and science college, Erode.
19. **The drug resistant character of biofilm forming bacteria of urinary tract infections (UTI) in Salem hospital** (Renupriya. A & Hemalatha. N)- 12<sup>th</sup> National Conference of Tamil Science Congress, Organised by Periyar University, Salem and Swadeshi Science Movement, Karaikudi, on 23<sup>rd</sup> -25<sup>th</sup> August 2012, held at Periyar University, Salem.pg 257

20. **Biological evaluation of microbial inoculated coir pith compost along with biofertilizer** (Rathnakumar. V & Hemalatha. N)- 12<sup>th</sup> National Conference of Tamil Science Congress, Organised by Periyar University, Salem and Swadeshi Science Movement, Karaikudi, on 23<sup>rd</sup> -25<sup>th</sup> August 2012, held at Periyar University, Salem.pg - 258.
21. **Poultry chick feather degradation using native keratinolytic bacteria and characterization of keratinase enzyme**, (Solai, S., Poongothai, E. and\*N. Hemalatha) 11<sup>th</sup> IAAM National Conference on Recent Developments in Microbiology, Biochemistry and Biotechnology, held on 29<sup>th</sup> and 30<sup>th</sup> November 2013 at PSG College of Arts and Science, Coimbatore. Pg-67.

### International Conference

22. **'Global warming and B-School responsibilities'** – paper presented at **International conference** on the Theme “Impact of Global financial crisis” on 30<sup>th</sup> October, 2009, held at Gnanamani Institute of Management Studies, Namakkal District.
23. **Effect of Mango Tannins on the antioxidation property of Ascorbic acid** – International Conference on Food and Nutraceuticals for Nutrition and Health: Technology and Delivery (ICFAN – 2011) - 20<sup>th</sup> -22<sup>nd</sup>, January 2011, held at Food and Nutrition Department, Periyar University, Salem. Pg-21.
24. **Detoxification of Hexavalent Chromium (Cr<sup>6+</sup>) By Indigenous Aerobic Bacteria** (Kavitha. A & Hemalatha. N) - International Conference on Sustainable Approaches for Green Computing, Economy and Environment, held on 9<sup>th</sup>, 10<sup>th</sup> & 12<sup>th</sup> December, 2013, organized by V.M.K.V Engineering college, Salem-308.
25. **Optimization of L-Asparaginase from Actinobacterial Strains** (Poongothai. E & Hemalatha. N)- International Conference on Sustainable Approaches for Green Computing, Economy and Environment, held on 9<sup>th</sup>, 10<sup>th</sup> & 12<sup>th</sup> December, 2013, organized by V.M.K.V Engineering college, Salem-308
26. **In vitro evaluation of antioxidant and antibacterial activity of methanolic leaf extract of *Achyranthes aspera* and *Argemone Mexicana*** (Devakumar & Hemalatha. N) - International Conference on Sustainable Approaches for Green Computing, Economy and Environment, held on 9<sup>th</sup>, 10<sup>th</sup> & 12<sup>th</sup> December, 2013, organized by V.M.K.V Engineering college, Salem-308.
27. **In-vitro evaluation of datura metal leaf for potential antimicrobial activity against wound causing pathogen** (Manikandan. A & Hemalatha. N)- International Conference on Sustainable Approaches for Green Computing, Economy and Environment, held on 9<sup>th</sup>, 10<sup>th</sup> & 12<sup>th</sup> December, 2013, organized by V.M.K.V Engineering college, Salem-308.

## Seminars

1. “Intercollegiate student’s seminar on Microbiology”- conducted by the Department of Botany and Microbiology, A.V.V.M Sri Pushpam College, Poondi.
2. Two day Seminar on “Chemistry and our Environment” organized by Research department of chemistry with sponsoring from UGC and Tamil Nadu for science and technology.
3. Seminar on “Research publications in journal”- 27<sup>th</sup> January 2008, organised by Dravidian University-Kuppam, Andrapradesh and MNBR Educational trust, Salem.
4. National seminar on Global business environment- Challenges and Opportunities, 28<sup>th</sup> & 29<sup>th</sup> January 2009, organized by PRIMS, Periyar University, Salem.
5. National seminar on Innovative teaching strategies, 22<sup>nd</sup> 723<sup>rd</sup> January 2009, conducted by Education department, Periyar University, Salem.
6. National Seminar on ‘Recent trends in microbial technology with reference to extremophiles’ -21<sup>st</sup> & 22<sup>nd</sup>, October 2010, held at Microbiology Department, Periyar University, Salem.
7. National Seminar on - Current trends in Viral diseases & its diagnosis – 2<sup>nd</sup> -4<sup>th</sup>, March 2011 held at Microbiology Department, Periyar University, Salem.
8. Two day national symposium on Applications of Nanotechnology in human welfare NSANH-2012, held on 28<sup>th</sup> & 29<sup>th</sup> September 2012, conducted and organized by the Department of Biotechnology, V.M.K.V Engineering college, Salem.
9. Seminar on Continuing Medical Education (CME) on Next Generation Molecular Diagnostic Techniques – 22<sup>nd</sup> September 2013, Organised by Microbiological Laboratory (NABL Accredited) Coimbatore, Tamilnadu under the auspices of Indian Association of Medical Microbiologists Tamilnadu Pondicherry chapter held at IMA hall, Coimbatore.
10. DST Sponsored National seminar on Current Trends in Infectomics (NCTI-2014), held on 20<sup>th</sup> and 21<sup>st</sup> February 2014, organized by the Department of Microbiology, Periyar University, Salem.(Presented paper)

## Workshops

1. One day workshop on “Municipal waste water and solid treatment technology” organized by K.N Govt. College for Women, Thanjavur (March 2<sup>nd</sup> 1999).
2. A workshop on “Capacity Building of Women Managers in Higher Education” organized by Avinashilingam University of Women, Coimbatore (5<sup>th</sup> to 9<sup>th</sup> January 2009).
3. One day workshop on “Role of Environment in the Decision Taking Process of the Corporate Sector”, Organized by Department of Commerce, Periyar University, Salem-11(31<sup>st</sup> March 2009).



4. National workshop on “Sri Rajendran Vijay Sree Endowment - Microbes to Commercial Products” Organized by Department of Microbiology, Periyar University, Salem-11 (2<sup>nd</sup> September 2014).
5. National workshop on “Green Initiatives in Energy and Environment” Organized by Department of Environmental Science, Periyar University, Salem-11 (11<sup>th</sup> September 2014).

## Conferences

1. **6<sup>th</sup> National conference** of Indian association of Applied Microbiologists ( IAAM) on the theme “ Microbial ecology, Biodiversity, Molecular techniques and its Prospects organized under CSIR and DST New Delhi, held on 12 and 13 December 2008 at KK.C., Velur. (Presented paper)
2. **International conference** on the Theme “Impact of Global financial crisis” on 30<sup>th</sup> October, 2009, held at Gnanamani Institute of Management Studies, Namakkal District. (Presented paper on the title ‘Global warming and B-School responsibilities)
3. **International Conference** on Food and Nutraceuticals for Nutrition and Health: Technology and Delivery (ICFAN – 2011), 20<sup>th</sup> -22<sup>nd</sup>, January 2011, held in Food and Nutrition department, Periyar University, Salem-11. (Presented paper on the title ‘Effect of Mango Tannins on the antioxidation property of Ascorbic acid’)
4. **9<sup>th</sup> IAAM National Conference** on “Current Trends in Microbial Technology” (CTMT-2011)” held on 14-15 October 2011 in the Department of Microbiology, Periyar University, Salem.
5. **National Conference** on consumer protection (NCCP)-22<sup>nd</sup> February 2012, Organised by Citizen consumer club, Kamadhenu arts and science college, Erode.(Presented paper)
6. **12<sup>th</sup> National Conference of Tamil Science Congress**, Organised by Periyar University, Salem and Swadeshi Science Movement, Karaikudi, held on 23<sup>rd</sup> -25<sup>th</sup> August 2012 at Periyar University, Salem.(Presented 2 papers)
7. **11<sup>th</sup> IAAM National Conference on** Recent Developments in Microbiology, Biochemistry and Biotechnology, held on 29<sup>th</sup> and 30<sup>th</sup> November 2013 at PSG College of Arts and Science, Coimbatore (Presented paper on the topic Poultry chick feather degradation using native keratinolytic bacteria and characterization of keratinase enzyme)
8. **International Conference on** Sustainable Approaches for Green Computing, Economy and Environment, held on 9<sup>th</sup>, 10<sup>th</sup> & 12<sup>th</sup> December, 2013, organized by V.M.K.V Engineering college, Salem-308. ( Presented 4 Papers - the topics mentioned in abstracts publication)

**Memberships:**

1. Indian Association of Applied Microbiologists – Life membership. No. LM 147 issued on 14<sup>th</sup> October 2011.
2. Member of Salem Productivity Council.

**Consultancy services:**

1. Conducted a Seminar Talk on Microbiology and Biotechnology in Cluny Matriculation Higher Secondary School, Salem-7 on 19.6.2010 for the DNA Club.
2. Delivered an Environmental Awareness talk in Cluny Matriculation Higher Secondary School, Salem-7 on 07.07.2012 for the DNA Club.

**Resource person**

1. Acted as chairperson for a Technical session in Science Conference conducted by Periyar University, Salem on 26<sup>th</sup> and 27<sup>th</sup> October 2009
2. Conducted a Seminar Talk on Microbiology and Biotechnology in Cluny Matriculation Higher Secondary School, Salem-7 on 19.6.2010 for the DNA Club. (also in consultancy services)
3. Chair Person of a Technical Session - National Seminar on 'Recent trends in microbial technology with reference to extremophiles [Extremos-2010]' held on 21<sup>st</sup> & 22<sup>nd</sup> October 2010, at Microbiology Department, Periyar University, Salem.
4. Offered expertise as resource person in the 20 day Young Scientist Programme organized by Periyar University, Salem and Tamilnadu State Council for Science and Technology, Chennai from 03-05-2010 to 22 -05-2010.
5. Delivered an Environmental Awareness talk in Cluny Matriculation Higher Secondary School, Salem-7 on 07.07.2012 for the DNA Club. (also in consultancy services)
6. Co-ordinated the Microbiology NET –SLET coaching classes (2012 -2013) for UG & PG students sponsored by UGC and conducted by Microbiology Department, Periyar University, Salem-11.
7. Acted Chief guest for the valedictory function providing valedictory address for the 2 day national symposium on Applications of Nanotechnology in human welfare NSANH-2012, held on 28<sup>th</sup> & 29<sup>th</sup> September 2012, conducted and organized by the Department of Biotechnology, V.M.K.V Engineering college, Salem.
8. Participated and Chaired a session in National Conference on Implications and Interventions of Phytomedicine organized by Department of Biochemistry, Periyar University, Salem -11 on 18.02.2013.

## **Seminars and Conferences Organized**

1. Organizing Committee member for **Recent Trends in Microbial Technology with Reference to Extremophiles, Sponsored by MOES, CSIR,DRDO and TNSCST** on October 21-22, 2010 at Periyar University.
2. Organizing committee member for **Current Trends in Viral Diseases, Sponsored by UGC and ICMR**, on March 3-4, 2011 at Periyar University.
3. Organizing **Secretary for Ninth National Conference of Indian Association of Applied Microbiologists on Current Trends in Microbial Technology 9CTMT-2011), Sponsored by UGC, MoES, TNSCST and DRDO**, on October 14-15, 2011 at Periyar University.
4. Organizing committee member for **Current Trends in Infectomics, Sponsored by DST** on February 20-21, 2014 at Periyar University, Salem – 11.

## **Departmental activities**

1. Lecturing
2. Practical demonstration and project guidance
3. Question setting, conducting exams and evaluating students
4. Board member in syllabus preparation for M.Sc and M.Phil Microbiology programmes
5. Member of screening committee for M.Sc and M.Phil and Ph. D. programmes of department.
6. Assistance in preparing departmental proposal for the XI Plan fund allotment
7. Committee member in Co-ordinating departmental Seminars.
8. Organised 9<sup>th</sup> National Conference of IAAM, on Current Trends in Microbial Technology to be conducted on 14 & 15 October, 2011.
9. Co – editor for the Departmental Journal – Current Perspectives in Applied Microbiology

**Student advised** : M.Phil - Guidance , Completed -11, Guiding – 2.

<b>S.No</b>	<b>Name of the Scholar (M.Phil)</b>	<b>Title of Thesis</b>	<b>University</b>	<b>Year</b>
1	C. Kumudha	Functional characterisation of heterotrophic nitrifying and aerobic denitrifying bacteria <i>Lysinibacillus fusiformis</i> strain GS-1(HQ026249) and its immobilisation for	Periyar University	2009-2010
2	R. SakthiPriya	Optimization and Stability checking of Folic acid by the Probiotic <i>Lactobaciullus</i> sp.	Periyar University	2009-2010
3	C. Vinotha	A study on production and characterization of biosurfactants and lipases from <i>Pseudomonas gessardii</i> and <i>Clostridium diolis</i> using slaughterhouse lipid wastes	Periyar University	2009-2010
4	M. Susikala	Studies on antimicrobial activity of plant extracts on multidrug resistant <i>e.coli</i> isolated from diabetic foot ulcer patients	Periyar University	2010-2011
5	S. Poornima	Antibacterial activity of <i>Exiguobacterium spp.</i> producing pigments against food borne pathogens	Periyar University	2010-2011
6	M.Vijayalakshmi	Microbial and molecular characterization of <i>Salmonella spp</i> isolated from various poultry related sources	Periyar University	2010-2011
7	N. Priyameenatshi	Antibacterial activity of Aloe vera extracts against human pathogens	Periyar University	2011-2012
8	V. Rathnakumar	Biological evaluation of microbial inoculated coir pith compost along with biofertilizer	Periyar University	2011-2012
9	A. Renupriya	The drug resistant character of biofilm forming bacteria of urinary tract infections (UTI) in Salem hospital	Periyar University	2011-2012

10	G.Kavitha	Detoxification of hexavalent chromium ( $Cr^{6+}$ ) in aqueous solution using aerobic bacteria	Periyar University	2012-2013
11	E.Poongothai	Production, partial purification and characterization of medically important enzyme, L-asparaginase from actinobacterium <i>Streptomyces</i>	Periyar University	2012-2013
	S.Deviyamini	Discontinued		2012-2013
12	Kalaivani	Screening of bioactive compounds from marine brown algae <i>Turbineriya conoides</i> associated with bactericidal activity against UTI Pathogens.		2013-2014
13	Sakthivel	Bioremediation of chromium (VI) from tannery effluent using bacteria and fungi		2013-2014

### Students advised for M.Sc. project – 15 nos.

1	A.FathimaBanu	Genetic analysis of rpo B Gene encoding RNA polymerase beta subunit in Mycobacterium tuberculosis clinical strain	Periyar University	2010-2011
2	R.Kavitha	Gut microflora of some estuarine fishes	Periyar University	2010-2011
3	V.Pradeepa	Antimicrobial activity of sea urchins	Periyar University	2010-2011
4	S.Deepa	Isolation and taxonomical investigation of marine actinobacterium isolated from the coral reef environment of Poomarichan island Gulf of Mannar, biosphere reserve, India.	Periyar University	2010-2011
5	G.Kavitha	Optimization of various biocontrol agents against plant pathogens	Periyar University	2011-2012
6	S.Rajeswari	Antimicrobial activities on drug extracts of Indian and imported cows and buffaloes against human pathogens	Periyar University	2011-2012
7	E.Poongothai	Comparative studies on the antimicrobial activity of various types of mushrooms	Periyar University	2011-2012

8	V.Santhakumari	Antibacterial activity of <i>Aegle marmelos</i> extract against the human pathogens associated with urinary tract infections	Periyar University	2011-2012
9	S.Solai	Poultry chick feather degradation using native keratinolytic bacteria and characterization of keratinase enzyme	Periyar University	2012-2013
10	R.Sankar	Isolation and Characterization of cellulose degrading bacteria from paper mill effluent	Periyar University	2012-2013
11	M.Hemalatha	Whole cell immobilized amperometric biosensor based on for selective determination of hydrogen peroxide and analysis of catalase enzyme activity study	Periyar University	2012-2013
12	M.Arul	Characterization of silver nanoparticles synthesized from <i>Catheranthus roseus</i> ( <i>Vinca rosea</i> ) leaf extract and their antibacterial activity	Periyar University	2013-2014
13	R.Gopi	Isolation and characterization of atrazine degrading bacteria from the atrazine contaminated sugarcane soil	Periyar University	2013-2014
14	C.Prabhakaran	Screening of estrogenic chemicals, pathalates, in river sediments and their associated aquatic risk assessment through YES	Periyar University	2013-2014
15	C.Sudhakar	Antibacterial activity of sponge extracts against chosen human pathogens	Periyar University	2013-2014