

DEPARTMENT ACHIEVEMENTS:

Within a short span of 4 years the department has made tremendous contribution to academics and research. Five national level seminar / conferences were conducted in the thrust areas of research by the faculty members. The Head of the Department Dr. R. Balagurunathan, has discovered a new anti TB and anti HIV antibiotic named “**Transitmycin**” in collaboration with TB Research Centre (ICMR), Chennai and Department of Biotechnology, IIT, Chennai and applied for Indian patent and International patent through PCT. The faculty members have published about 95 research papers in the national and International journals. The passed out students of M.Sc. and M. Phil. are offered good positions in various academic and industrial concerns.

UGC- Non SAP Award: The department is awarded with by UGC in the Non-SAP grant during 2010-11 and 2012-13 sanctioned Rs.20 lakhs to strengthen the department infrastructure facilities. In addition, the UGC also sanctioned 4 research fellowships under this programme.

Extension Activities: Our department had started its club namely “Periyar University Microbiology Club (PUMIC)” to bring to light the impressive and admirable activities of both the students and the staff.

Fleming’s Journal club: Department of Microbiology started Fleming’s Journal club on 20th July 2012, inaugurated by the chairman of Fleming’s Journal club, Dr. R. Balagurunathan and then Convenor, Dr. R. Dhandapani given speech about Fleming’s Journal club and it was take over by staff members Dr. N. Hemalatha, Dr. P. M. Ayyasamy and Dr. D. Arvind Prasanth. The journal club meet conducted every Friday 3.30- 4.00PM and a research scholar will present a current research paper published during that month/week in any of the international journal of their Ph.D., topic specialization. The main motto about this journal club was the current innovative method and updates in their research field should be discussed by presenter in the presence of all faculty, Scholars and students in department of Microbiology. In the first and 2nd cycles, totally 30 scholars discussed about current articles in their Research field, started from 20.07.12 to 30.10.13. Further cycles are in progress. From students and scholar’s side, they thought improved their knowledge about their Research field, communication skills, interactive ability and presentation capability. By this programme, the students came to know about the current news and it helped them to select research topics for their projects.

PUMIC Guest Lectures

S. No.	Date	Topic	Name of the presenter
1.	28.01.10	Bioprocess Technology with Reference to Industrially Important Microorganisms.	Dr. P. T. Kalaichelvan Professor, CAS in Botany, University of Madras, Chennai.
2.	08.02.10	Antibody Engineering	Dr. M. Michael Head, Dept. of Microbiology, PSG College, Coimbatore.
3.	10.03.10	Cyanobacteria and its Biotechnological potential	Dr. N. Thajuddin Associate Professor & Head Department of Microbiology Bharathidasan University, Trichy
4.	17.03.10	Leptospirosis	Dr. N. Natarajaseenivasan Reader, Dept. of Microbiology, Bharathidasan University, Trichy
5.	31.03.10	Evolution of Microbes, Monkey and Man and Mysteries and Evolution of viral diseases	Dr. P. Rajendran, Professor, Sri Ramachandra Medical College, Chennai
6.	Nov-2010	Biodegradable Biopolymeric Nanomaterials	Dr. R. Jayakumar, Asst. Professor, Amrita University's, Kochi
7.	11.02.11	Mycology: An Industrial Perspective	Dr. P. Devanandhan, Dr. Agarwal Eye Hospital, Salem
8.	07.03.11	Awareness Programme on Standardization (BIS & ISO)	Sri, Gopinath Scientist-E, BIS, Chennai
9.	14.03.11	Bioprocess Technology of Microbial Products	Dr. n. Manivannan Assistant Professor Department of Microbiology Bharathidasan University, Trichy
10.	25.08.11	Molecular Diagnosis of Ocular Infections	Dr. K. Lily Therese, Professor and Head, Department of Microbiology Sankara Nethralaya, Chennai
11.	15.09.11	Biofertilizer Technology	Dr. K. Kumar Professor & Head Dept. of Microbiology TNAU, Coimbatore.
12.	30.10.12	Hurdles for entrepreneur in microbial technology	Dr. P. Sathiyamoorthi Directorate of Agri Business Develop., TNAU, Coimbatore.
13.	07.11.12	Harnessing the role of mycorrhizae in agriculture and forestry	Dr. T. Muthukumar Assistant Professor, Dept. of Botany, Bharathiar University, Coimbatore
14.	30.01.13	<i>Bacillus thuringiensis</i> toxins and their potential in insect management	Dr. G. Gurusubramanian Associate Professor, Dept. of Zoology, Mizoram University, Mizoram.
15	25.07.13	Coir Pith Processing Technology	Dr. P. Selvakumaran Principal, Muthayammal College of Arts and Science, Rasipuram.

UGC Sponsored NET/SLET Coaching Classes: CSIR NET/SLET coaching class is essential for the students to strengthen their knowledge based on research. It is an extra qualification to decide their future in right path So in our Periyar University, Department of Microbiology organized the NET/SLET coaching class for M. Sc and M. Phil scholars. The inaugural programme for the NET/SLET were held in the seminar hall and inaugurated by Head of the Department, Dr. R. Balagurunathan on 26.07.2012. He was the chairman and Dr. N. Hemalatha, assisting as the co-ordinator for NET/SLET programme. Classes were held from Monday to Friday in the time of 4.00 to 6.00pm for the period of two months from 26.07.2012 to 29.09.2012 as two schedules. Totally 38 classes handled and 45 topics were covered during this period by faculties and research scholars. Finally, the student feedback suggested that NET/SLET coaching classes were very useful to understand the in-depth mechanism present behind the each topics crystal clearly and also continue this type of classes for the subsequent batch also.

All the faculty members are sent the project proposals to various funding agencies. In addition, the department is organized 5 national seminars during the year 2010-12.

Seminar / Symposia Organized:

S. No.	Name of the Seminar	Organizing Secretary	Date
1	Research Project Funding	Dr. R. Balagurunathan	03 rd March 2009
2	National Seminar on “Recent trends in Microbial Technology with reference to Extremophiles” (<i>Extremos</i> , 2010)	Dr. R. Balagurunathan	21 st -22 nd October 2010
3	National Seminar on “current Trends in Viral Diseases and its Diagnosis” (CTVD-2011)	Dr. P.M. Ayyasamy	3 rd -4 th March 2011
4	9 th National Conference of Indian Association of Applied Microbiologists on the topic “Current Trends in Microbial Technology” (CTMT -21011)	Dr. N. Hemalatha	14 th -15 th October 2011
5	National seminar on “Molecular Aspects of Microbiology” (NSMM-2012)	Dr. D. Arvind Prasanth Dr. R. Dhandapani	7 th March 2012

The department has also dreamed to develop young researchers to enlighten their knowledge with a view to conduct research, addressing the ongoing problems in the field of Microbiology and to develop innovative technologies from Industries, and to create awareness about the utilization of microbial resources present in the world. The department also strives to become one of the prominent centres for excellence in Microbial Technology field in the country in the upcoming years.

Experts visited to department during 2009 to 2013

S. No	Name the Persons
1	Dr. Ilavazhagan , Director, DRDO, New Delhi
2	Dr. Sasibalasingh , Director, HRD, DRDO, New Delhi
3	Dr. P. Rajendran , Professor, Department of Microbiology, Sri Ramachandra Medical College & Research Institute, Chennai
4	Dr. Vanaja Kumar , Scientist – F & Head, Department of Bacteriology, Tuberculosis Research Centre [ICMR], Chennai
5	Dr. P. Lakshmanaperumalsamy , Registrar, Karpagam University, Coimbatore
6	Dr. R.C. Dubey , Department of Botany and Microbiology, Gurukul Kangri University, Haridwar, Uttarakhand
7	Dr. K. Kathiresan , Centre of Advanced Study in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai
8	Dr. P. Gunasekaran , Prof. & Head in Genetics, Madurai Kamaraj University, Madurai
9	Dr. P.T. Kalaichelvan , Professor, Centre of Advanced study in Botany, University of Madras, Chennai
10	Dr. N. Thajuddin , Professor, Department of Microbiology, Bharathidasan University, Trichirappalli
11	Dr. K. Nataraja Seenivasan , Professor, Department of Microbiology, Bharathidasan University, Trichirappalli
12	Sri. P.M. Pantulu , Scientist F., Head marks Division, BIS Regional Office, Chennai
13	Dr. P. Devanandhan , MBBS, DO, Ph.D., Vasan Eye Hospital, Salem
14	Dr V. Elangovan , Dean, Govt Mohan Kumaramangalam Medical College, Salem
15	Dr. D.V.R Sai Gopal , Prof. & Head, Department of Virology, Sri Venkateshwara University, Tirupati
16	Prof. Dr. K. S. Sastry , Sri Venkateshwara University, Tirupati
17	Dr. B. Sekar , Director, Pasteur Institute of India, Coonoor
18	Dr. S. Manian , Dean, Bharathiar University, Coimbatore
19	Dr. Soumya Swaminathan , Director, Scientist G, NIRT (ICMR), Chennai.

20	Dr. Babu Rajendran , Professor, Department of Environmental Biotechnology, Bharathidasan University, Trichirappalli
21	Dr. K. Swaminathan , Professor and Head, Department of Microbial Biotechnology, Bharathiar University, Coimbatore
22	Dr. K. Kadirvelu , Joint Director, DRDO, Bharathiar University campus, Bharathiar University, Coimbatore.
23	Dr. K. Lily Therese , Professor & HOD of Microbiology, Sankara Nethralaya, Vison Research Foundation, Chennai
24	Dr. K. Kumar , Prof. and Head, Department of Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore.
25	Dr. Dr. Thilagavathy Daniel , Professor, Department of Biology, Gandhigram Rural Institute, Gandhigram
26	Dr. L. Kannan , Professor in Marine Biology, Former Vice-Chancellor, Thiruvalluvar University
27	Dr. M. Krishnan , Professor & Head, Department of Eco-Biotechnology, Bharathidasan University, Trichy
28	Dr. N. Kannan , Principal, KSR College of Arts & Science, Tiruchengode
29	Dr. A. Michael , Associate Professor & Head, Department of Microbiology, PSG College, Coimbatore
30	Dr. S. Jayaraman , Professor & Head, Department of Microbiology, Mahatma Gandhi Government Dental College, Pondicherry
31	Dr. T. Tholkappain , Professor, Department of Microbiology, Agriculture College, Annamalai University, Annamalai nagar
32	Dr. Subha Gopal , Associate Professor & Chairperson, Dept. of studies in Microbiology, University of Mysore, Mysore.
33	Dr. P. Sathiyamoorthi , Directorate of Agribusiness Development, TNAU, Coimbatore
34	Dr. T. Muthukumar , Assistant Professor, Department of Botany, Bharathiar University, Coimbatore
35	Dr. G. Gurusubramanian , Associate Professor, Dept. of Zoology, Mizoram University, Mizoram

AWARDS RECEIVED BY THE FACULTIES



Dr. R. Balagurunathan received Best Teacher of the year 2009 from Sri Sankara Arts and Science College for recognition of outstanding contributions to the academic and research.



Dr. P.M. Ayyasamy won Best Paper Award in the 1st EIT International Conference on Water Resources Engineering 2011 (EITWRE2011) held at Thailand during 18-19 August 2011.



Dr. R. Balagurunathan received Best Teacher of the year 2011 from Periyar University for Recognition of outstanding contributions to the academic achievement.



Dr. R. Balagurunathan received outstanding teacher award in microbiology from 9th national conference of Indian Association of Applied Microbiologists on 14th October 2011.



Dr. R. Balagurunathan received Senior Researcher Award from International Conference on Environmental Security for Food and Health By MDT Hindu College, Tirunelveli and KK trust on 18th Feb-2012

PUMIC Plenary Lectures



28.01.10-The first PUMIC lecture was given by Dr. P. T. Kalaiichelvan, Professor, CAS in Botany, University of Madras, delivered lectures on the topics Bioprocess Technology with Reference to Industrially Important Microorganisms.



08.02.10- PUMIC lecture was given by Dr. M. Michael, Head, Dept. of Microbiology, PSG College, delivered lectures on the topics Antibody Engineering.



10.03.10- PUMIC lecture was given by Dr. N. Thajuddin, Associate Professor & Head, Department of Microbiology, Bharathidasan University, delivered lectures on the topics Cyanobacteria and its Biotechnological potential.



17.03.10- PUMIC lecture was given by Dr. N. Natarajaseenivasan, Associate Professor, Dept. of Microbiology, Bharathidasan University, delivered lectures on the topics Leptospirosis.



31.03. 2010-PUMIC lecture was given by Dr. P. Rajendran, Professor, Sri Ramachandra Medical College, Chennai delivered lectures on the topics Evolution of Microbes, Monkey and Man” and “Mysteries and Evolution of viral diseases.



07.03.11-The PUMIC lecture was given by Sri, Gopinath, Scientist-E, Bureau of Indian Standards (BIS), delivered lectures on the topics Awareness Programme on Standardization (BIS & ISO).



11.02.11-The PUMIC lecture was given by Dr. P. Devanandhan, MBBS. DO, Ph. D., Dr. Agarwal Eye Hospital delivered lectures on the topics Mycology: An Industrial Perspective.



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25.08.11-The PUMIC lecture was given by Dr. K. Lily Therese, Professor and Head, Department of Microbiology Sankara Nethralaya delivered lectures on the topics Molecular Diagnosis of Ocular Infections.



15.09.11-The PUMIC lecture was given by Dr. K. Kumar, Professor & Head, Dept. of Microbiology, TNAU delivered lectures on the topics Biofertilizer Technology



30.10.12-The PUMIC lecture was given by Dr. P. Sathiyamoorthi, Directorate of AgriBusiness Development, TNAU delivered lectures on the topics Hurdles for entrepreneur in microbial technology.



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PUMIC Aptitude Programme

On 17th February, 2010, the club arranged for a group discussion on the topic ‘Which scarcity is too dangerous today? – Space or Finance or Humanity or Awareness.



PUMIC Outsourcing Programme

PUMIC conducted a science quiz competition at school level on 24th February. Many schools in Salem participated. Several rounds in this competition were conducted to test the student's memory power and also the depth and width of their knowledge in various fields. Cluny Matriculation Higher Secondary School, Salem, won the first prize and Holycross Matriculation Higher Secondary School won the second prize.



**Seminars & Conferences organized by Department of Microbiology,
Periyar University, Salem-11.**



National Seminar on “Recent trends in Microbial Technology with reference to Extremophiles” (Extremos 2010) held on 21st-22nd October 2010



National Seminar on “current Trends in Viral Diseases and its Diagnosis” (CTVD-2011) Dr. held on 3rd-4th March 2011

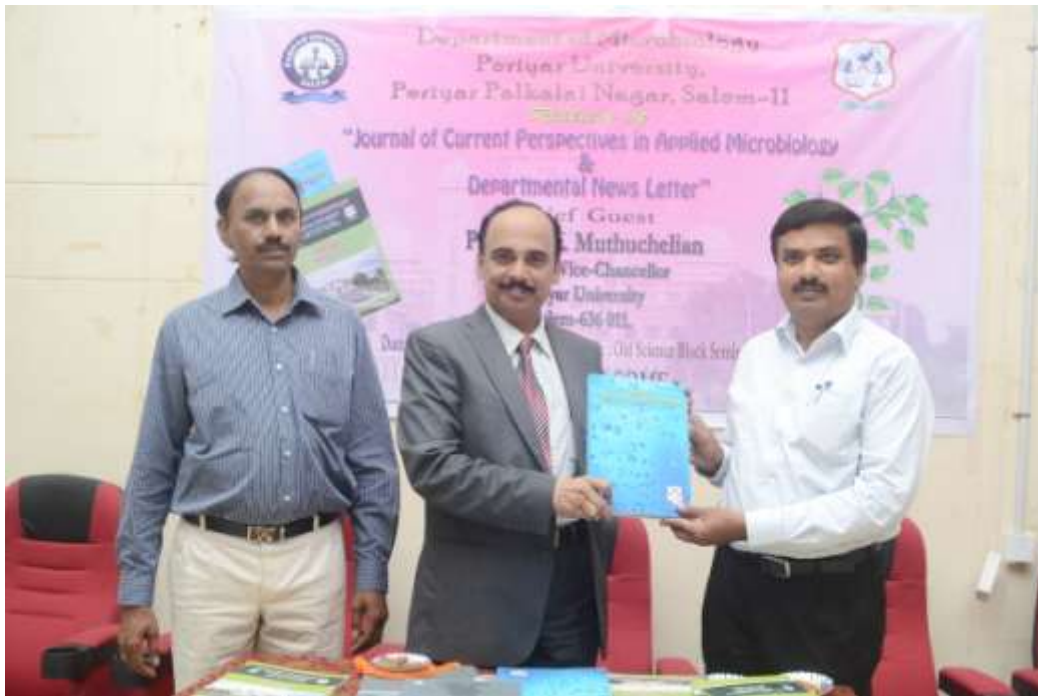


9th National Conference of Indian Association of Applied Microbiologists on the topic “Current Trends in Microbial Technology” Held on 14th-15th October 2011



National seminar on “Molecular Aspects of Microbiology” NSMM-2012 Dr. D. Arvind Prasanth held on 7th March 2012

Journal and Departmental Newsletter released by Honorable Vice – Chancellor



Industrial Visits



Industrial visit at Sakthi Sugars PVT limited, Appakkudal, Erode



Industrial visit at Sri Ram Institute for Industrial Research, Bangalore



Industrial visit at Green chem, Bangalore



Industrial visit at Sakthi Sugars PVT limited, Appakkudal, Erode



Industrial visit at National Institute of Oceanography, Kerala



Industrial visit at Central Marine Fisheries Research Institute, Kerala



Industrial visit at Coir Research Institute, Kerala