

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 1st, 2nd and 3rd cycles, totally 43 scholars discussed about current articles in their Research field, started from 20.07.12 to 28.10.14. 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.
16	18.10.13	Molecular Biology's Hall of Fame	Dr. S. Nagini, Professor, Department of Biochemistry and Biotechnology, Annamalai University.
17	30.10.13	Concepts at Nanoscale and Nanobiomaterials	Dr. S. Balakumar Director (i/c), National Centre for Nanoscience and Nanotechnology, University of Madras.
18	20.02.14	Microbial Community in Human Body- Metagenomic Approach and Biomems	Dr. M. Ananthasubramanian Department of Biotechnology, PSG College of Technology, Coimbatore.
19	20.02.14	Marine Drugs and nanoparticles for the treatment of infectious diseases	K. Kathiresan CAS in Marine Biology, Faculty of Marine Sciences, Annamalai University.
20	21.02.14	Host and Pathogen Based Molecular Elements for Future Medicine	K. Balakrishnan Department of Immunology, School of Biological Sciences, Madurai Kamaraj University, Madurai.
21	21.02.14	Role of Herbal Products in Curing Infectious Diseases	Dr. R. Rajendran, CEO & Founder, Green Chem, Bangalore.
22	08.01.15	Career Guidance and Industrial Expectations for Employability	Dr. C.S. Ramanigopal, Dean-Placement Training, V.M.K.V. Engineering College, Salem.
23	20.01.15	Successful Application of Microbial Technologies in Petrochemical Industry	Dr. D. Ramesh Kumar Chief Executive Officer Salem Microbes Private Ltd, Salem.

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 and 10.09.2014 to 28.10.2014 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.

Seminar / Symposia Organized

S. No.	Name of the Seminar	Organizing Secretary	Date
1	Research Project Funding	Dr. R. Balagurunathan	03.03.2009
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"	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
6	National Seminar On "Current Trends in Infectomics" NCTI-2014	Dr. R. Balagurunathan	20 - 21 st February, 2014

7	National Seminar on “Challenges for Microbiologists to Become Bio-Entrepreneurs”	Dr. R. Dhandapani	27 th August, 2014
8	National Workshop On Microbes to Commercial Products	Dr. D. Arvind Prasanth	2 nd September, 2014
9	Five day Hands-on Workshop on Recombinant DNA Technology and Protein Engineering for Microbiology Students	Dr. R. Balagurunathan	09-13 th February, 2015

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.

Industrial Visit

An Industrial visit offers an opportunity for a rich experience, and a tremendous way to facilitate learning. In these Industrial visits, students have the chance to connecting with the people and place on a much deeper level than they ever could in the classroom. Industrial visits allow teachers and students to break out of their routines, to learn more about concepts they have been learning in class and in some cases to apply new knowledge as well. As part of the Academic curriculum, the department has arranged for Industrial visits to various institutes for M.Sc. and research scholars of Microbiology department guided by faculty members during every academic year.

1. **Industrial visit at Sriram Institute for Industrial Research, Bangalore**
2. **Industrial visit at Sakthi Sugars PVT limited, Appakkudal, Erode**
3. **Industrial visit at National Institute of Oceanography, Kerala**
4. **Industrial visit to CMFRI, Kerala**
5. **Industrial visit at Coir Research Institute, Kerala**

6. **Industrial visit at Sri Devaraja Agro Industries, Krishnagiri.**
7. **Green Chem, Bangalore**
8. **Sri Visweswaraiya Musium, Bangalore.**

Biannual Journal

Department of Microbiology, Periyar University also issuing a biannual Journal of “Current Perspectives in Applied Microbiology”, ISSN No: 2278-1250. It is a national peer-reviewed Journal dedicated to publish and disseminate significant research in the field of microbiology. Scope of the Journal includes: structure and function, biochemistry, enzymology, metabolism and its regulation, molecular biology, genetics, plasmids and transposons, general microbiology, applied microbiology, genetic engineering, virology, immunology, clinical microbiology, microbial ecology, environmental microbiology, food microbiology, molecular systematics, chemical or physical characterization of microbial structures or products, and basic biological properties of organisms.

Health Awareness Program

Department of Microbiology conducted a Environmental and Health Awareness Programme on 21.07.2013 at Nesakkarankal, Salem. In this connection, School is considered as place for learning where children learn not only subjective knowledge but also life style practices and health seeking behaviors. It has been proven that schools can provide an ideal platform for the promotion of health. So, Department of Microbiology conducted the Health Awareness Programme and Blood Grouping Camp in an underdeveloped areas schools such as Government Higher Secondary School, Karuppur and Govt. Middle School, Sangeethapatti, Salem on 23rd July and 11th August 2014. The programme was organized by Dr. R. Balagurunathan, Professor and Head, co-ordinate by Dr. D. Arvind Prasanth and Dr. R. Dhandapani, Assistant Professors,

Department of Microbiology, Periyar University, Salem. This health program reviews the most relevant health issues and gives a free blood grouping to the students. Through this, above 400 students were benefitted and also asked the students to focus on their healthy habits and hygienic practices. This health program was successfully completed by enthusiastically support of Research scholars and Students of Department of Microbiology, Periyar University.