

**Dr.N.G.P. ARTS AND SCIENCE COLLEGE**  
**DEPARTMENT OF BIOTECHNOLOGY**  
**COIMBATORE**  
**News Letter 2013-14**

**EDITOR'S DESK:**  
**(DR.V.Shanmugaraju)**

I am extremely happy to bring out the news letter of the Department for this academic year. Modern scenario focuses much on new technology like Biotechnology, Nanotechnology and Pharmaceutical Biotechnology. I strongly believe that this news letter will be of much use to the young readers in order to motivate the Bioscience community.

**VISION & MISSION:**

- ✦ To attain new heights in Biotechnology research, shaping Biotechnology into a premier precision tool of the future for creation of wealth and ensuring social justice.
- ✦ To be an excellent quality, comprehensive and multidisciplinary biotechnology center that supports research, education and technology transfer for applications of biotechnology for the benefit of the agriculture, human health, and the environment.
- ✦ To believe in professional collaborative relationships with all colleagues by operating in an environment of mutual respect, integrity and support.
- ✦ To commit to produce the highest quality education that meet our society needs by focusing on the usage of innovate Biotechnology as solutions to community problems.

**ABOUT OUR DEPARTMENT**

The Department was established in the year 2002 with the goal of rendering innovative education to the learning aspirers. Biotechnology being a fast growing arena of research and innovation, our department offers UG, PG, M.Phil and Ph.D programmes. The Department proves to be a good platform for the budding biotechnologists with excellent infrastructure and instrumentation facilities. At present the department is functioning effectively with 9 staff members and 149 students.

**ACTIVITIES OF THE DEPARTMENT**

- ✦ **Extension activity** to serve the Orphans in the **Universal Peace Foundation** at Padhuvampalli, Avinashi on 02.08.2013.
- ✦ Dr. Nalla G. Palaniswami Endowment Seminar on "Innovations in Biotechnology" was conducted on 28.02.2014. **DR.D. Ramesh Kumar**, Chief Executive Officer, Salem Microbes Ltd, Salem, **Dr.N.Senthil Kumar**, Scientist D, Division of Bioprospecting, Institute of Forest

Genetics & Tree Breeding, Coimbatore, **DR. Hari Saran Raj**, Head, Research & Development, Southern Petrochemical Industries Corporation (SPIC)- Agribusiness Division, Coimbatore and **DR A. Suganya**, Principle Scientist, Sugarcane Breeding Institute were the resource persons.

- ✚ Students of III B.Sc, II M.Sc and II B.Sc visited **DRDO- Life Science Department in Bharathiar University** on 21.06.2013 and 28.06.2013 respectively.
- ✚ Students of III B.Sc and II M.Sc were taken to Siruvani Water treatment plant on 19.07.2013 as a part of Industrial visit.
- ✚ Students of III B.Sc and II M.Sc were taken to **Bangalore Urban Milk Union Ltd, Bangalore and Central Sericulture Research and Training Institute, Mysore** on 02.09.2013-05.09.2013 as a part of Industrial visit.
- ✚ **All the staff members** have participated in the **National symposium on Perception of Microbe in Human Health and Environment – PSPM – 13** organized by the Department of Microbiology, Dr.N.G.P.Arts & Science College on 28<sup>th</sup> August 2013.
- ✚ **Dr. V. Shanmugaraju**, Head of the department published a **paper** in reputed journal.
- ✚ **Dr.V.Shanmugaraju** participated in **NAAC Sponsored two day Conference on “Enhancing Quality education”** organized by IQAC cell of Bharathiar University on 29<sup>th</sup>-30<sup>th</sup> July 2013.
- ✚ **Dr.V.Shanmugaraju** acted as a Resource person in UGC Sponsered Workshop on **“Advance Biological Techniques”** held at Vellalar College for Women, Erode on 18<sup>th</sup> September 2013.
- ✚ **Mr. Arun.P**, Assistant professor of the department published a paper in reputed journal.
- ✚ **Mr. Arun.P**, Assistant professor presented a paper in National conference on **“Recent Trends in Medicinal Plants and their products”** on **“Nutraceuticals”** organized by the Department of Biochemistry, Dr.N.G.P. Arts and Science College on 18<sup>th</sup> September 2013.
- ✚ **Mr. Arun.P** presented a paper in National conference on **“Optimization Techniques and Decision Making Analysis”** on **“ Neural Networks”** organized by the Department of Mathematics, Dr.N.G.P.Arts & Science College, Coimbatore on 25<sup>th</sup> September 2013.
- ✚ **Mr. K. Arungandhi**, Assistant professor of the department published a paper in reputed journal.
- ✚ **Mr. K. Arungandhi** presented a paper in National level Seminar on **“Current Trends in Biodiversity Conservation and Forest Management (CTBCFM-2014)”** held at Periyar University, Salem on 6<sup>th</sup> -7<sup>th</sup> January 2014.
- ✚ **Mr. K. Arungandhi** participated in a National level conference on **“Ecotechnologies for Waste Water Treatment”** organized by the Department of Environmental Sciences, Bharathiar University, Coimbatore on 21<sup>st</sup>- 22<sup>nd</sup> January 2014.

- ✚ **Mrs. M.Shanmugavadivu**, Assistant professor of the department published 2 paper in reputed journal.
- ✚ **Mrs. M.Shanmugavadivu** attended a DBT sponsored one day Workshop on “**Recent Trends in Biophysics and Nanotechnology**” organized by the Department of Physics, PSG College of Arts and Science on 26<sup>th</sup> July 2013.
- ✚ **Mrs. M.Shanmugavadivu** presented a paper in National level Seminar on “**Current Trends in Biodiversity Conservation and Forest Management (CTBCFM-2014)**” held at Periyar University, Salem on 6<sup>th</sup> -7<sup>th</sup> January 2014.
- ✚ **Mrs. M.Shanmugavadivu** exhibited a plant in National Level Symposium and Exhibition on “**Medicinal value of plants and plant products**” organized by Kongu Nadu College of Arts and Science, Coimbatore on 23<sup>rd</sup> January 2014.
- ✚ **Mrs. I. Maria Nancy**, Assistant Professor has published 2 papers in reputed journal.
- ✚ **Dr. M. Vishnupriya** Assistant Professor has published 3 papers in reputed journal.
- ✚ **Dr. M. Vishnupriya & Dr.M.Kamaraj** attended a AICTE Sponsered National Level Workshop on “**Bioprocess Plant Design**” in Sri Buddha College of Engineering, Kerala on 28<sup>th</sup>-29<sup>th</sup> November 2013.
- ✚ **Dr. M. Kamaraj**, Assistant Professor has published 3 papers in reputed journal.
- ✚ **Dr. M. Kamaraj** attended a National Level Workshop on “**Aerobiology and Avionics**” organized by Biologists Forum of India, Chennai on 14<sup>th</sup> -15<sup>th</sup> December 2013.
- ✚ **Dr. M. Kamaraj** has presented a paper on “**Antagonistic activity of stress tolerant Pseudomonas sp MK4 Strain against selected fungal sp.**” in International Symposium on “**Bioscience Research for Present and Future**” Organized by Vivekanandha College of Arts and Science for Women, Tricengode.
- ✚ **Dr. M. Kamaraj** presented a paper on “**Application of *Arachis hypogaea* shell activated carbon on waste water Treatment**” in National Conference on “**Ecotechnologies for Waste Water Treatment**” organized by the Department of Environmental Sciences, Bharathiar University, Coimbatore on 21<sup>st</sup>- 22<sup>nd</sup> January 2014.
- ✚ **Dr. M. Kamaraj** exhibited a plant in National Level Symposium and Exhibition on “**Medicinal value of plants and plant products**” organized by Kongu Nadu College of Arts and Science, Coimbatore on 23<sup>rd</sup> January 2014.

## CONFERENCE

- ✚ Two Day National Conference on “**Biotechnology - Present and Future**” was organized on 26<sup>th</sup> -27<sup>th</sup> September 2013.

- ✚ **DR.N.Bharathi**, Director, Grow More Biotech, Hosur delivered a lecture on **“Technological Innovation in Plant Tissue Culture- The Present & The Future”**
- ✚ **DR. A. Rajasekaran**, Principal, KMCH College of Pharmacy, Coimbatore delivered a lecture on **“ Herbal Remedy for Rheumatoid Arthritis- A Biotechnological Approach”**
- ✚ **DR. Geetha N.Prashanth**, Associate Professor, Department of Biotechnology, University of Mysore, delivered a lecture on **“Defense Signals in Pearl Millet Against Downy Mildew Pathogen”**.
- ✚ **DR.M. Poornima**, Senior Scientist, ICAR-Central Institute of Brackishwater Aquaculture, Chennai delivered a lecture on **“Recent Advances in Molecular Diagnostics with Special Reference to Viral Metagenomics”**.
- ✚ **DR. Geetha Ramachandran**, Scientist D, ICMR- National Institute for Research in Tuberculosis, Chennai delivered a lecture on **“Clinical Pharmacology Studies in TB & HIV”**.
- ✚ **DR.K. Thangavel**, Assistant Professor, Department of IPLS, Madurai Kamaraj University, Madurai delivered a lecture on **“Plant Secondary Metabolites: Explorations *in vitro*”**.
- ✚ **DR. Prakash Motiram Halami**, Principal Scientist, CSIR-CFTRI, Mysore delivered a lecture on **“Present trends and Furture Perspectives of Biotechnology in Probiotics”**.

#### **GUEST LECTURES**

12.07.2013: **“Exploring plant diversity for Bioprospection”** by **Dr. Parimelazhagan**, Assistant Professor, Department of Botany, Bharathiar University,Coimbatore.

21.08.2013: **“Interpersonal skill and successful personal and professional life”** by **Mr. T. Justin**, Co-Ordinator, IAS Academy, Dr.N.G.P Arts and Science College, Coimbatore.

20.09.2013: **“Environmental Determinants of Health”** by **Dr. Sudha Ramalingam**, Registrar, Office of Research, Department of Community Medicine, PSG Center for Molecular Medicine and Therapeutics, Coimbatore

04.01.2014: **“Structural and Functional recognition of NKT TCR with microbial lipid antigen”** by **Mr. S. Srinivasan**, Protein Crystallography Unit, Department of Molecular Biology and Biochemistry, Faculty of Medicine, Nursing and Health Sciences, Monash University, Australia.

22.01.2014: **“Vascular dysfunction caused by Cancer drugs by Interfering with nitric oxide signaling in endothelium”** by **Mr. Pradeep Thangaraj**, Research Fellow, Department of Vascular Biology, Au-KBC Research fellowship, Anna University, Chennai.

#### **University Rank Holders (April 2013)**

##### **B.Sc Biotechnology**

Nisha .P.B	- I Rank
Vijitha . V.V	- IX Rank

## **M.Sc Biotechnology**

Charulatha Nilayangod	- III Rank
Jeslin Jeba Soundari. M	- VI Rank
Hima Bindhu Mavilla	- VIII Rank

### **Students Achievement:**

- ✚ R. Suriya of I B.Sc Biotechnology won the II Prize in “solo song” competition conducted on the Independence Day in Dr.N.G.P. Arts and Science College on 15.08.2013.
- ✚ Ravi. Hindocha and B.Arunkumar of II B.SC Biotechnology won the I Prize in “Product Launch” in the Interdepartmental competition conducted by BCS Department of our college, Dr.N.G.P. Arts and Science College on 21.08.2013.
- ✚ P.T Amjad of I M.Sc and M. Abitha Selvi of III B.Sc Biotechnology won the I Prize in Bio Quiz in VI Louis Pasteur Memorial National Symposium on “ Perception of Microbe in Human Health and Environment – PSPM-13” Organized by the Department of Microbiology, Dr.N.G.P. Arts and Science College on 22.08.2013.
- ✚ S. Rushna and Neena Sharma of II B.Sc Biotechnology won the II prize in Poster presentation in VI Louis Pasteur Memorial National Symposium on “ Perception of Microbe in Human Health and Environment – PSPM-13” Organized by the Department of Microbiology, Dr.N.G.P. Arts and Science College on 22.08.2013.
- ✚ Ravi. Hindocha of II B.Sc Biotechnology won the II prize in Poster presentation in VI Louis Pasteur Memorial National Symposium on “Perception of Microbe in Human Health and Environment – PSPM-13” Organized by the Department of Microbiology, Dr.N.G.P. Arts and Science College on 22.08.2013.
- ✚ Keerthika of I B.Sc Biotechnology won the II Prize in Tamil poetry competition in Elangovadigal Tamil Mandram on 30.09.2013.
- ✚ V.Gokul Kumar and G.Vasasanth of I M.Sc Biotechnology won the II Prize in Quiz competition conducted by the Department of Microbial Biotechnology, Bharathiar University on 03.10.2013.
- ✚ M. Abitha Selvi of III B.Sc and S.Rushna of II B.Sc won the first prize in paper collage conducted in Dr.N.G.P. Arts and Science College during the NGP Fest on 19.12.2013.
- ✚ M. Abitha Selvi and Annie Paulose of III B.Sc won the first prize in English Debate conducted at Dr.N.G.P. Arts and Science College during the NGP Fest on 19.12.2013.
- ✚ U. Sathish of III B.Sc won the third prize in Just a Minute conducted at Dr.N.G.P. Arts and Science College during NGP Fest on 19.12.2013.

- ✚ P.Mekala of III B.Sc won the second prize in Oru sol oru kural conducted in Dr.N.G.P. Arts and Science College during NGP Fest on 19.12.2013.
- ✚ M. Abitha Selvi of III B.Sc and Ravi. Hindocha of II B.Sc won the third prize in Quiz conducted at Dr.N.G.P. Arts and Science College during the NGP Fest on 19.12.2013.
- ✚ Jinu Jereena of II B.Sc won the third prize in Solo song conducted at Dr.N.G.P. Arts and Science College during the NGP Fest on 19.12.2013.
- ✚ Annie Paulose, M.Abitha Selvi, H.Suganya Devi, U.Kavipriya Elizabeth, N. Madhubala and J.Pavithra of III B.Sc Biotechnology are selected in WIPRO Technologies (P) Ltd, Chennai.
- ✚ Annie Paulose, M.Abitha Selvi, N. Madhubala, J.Pavithra of III B.Sc Biotechnology and S. Radhika , R.Preetha of II M.Sc Biotechnology are selected in M\* Model Global Services (P) Ltd, Saravanampatti.
- ✚ M. Arunraja and M. Rajan of III B.Sc Biotechnology are selected in Reliance Marketing, Coimbatore.
- ✚ V.E. Silpa of III B.Sc Biotechnology is selected in AB English Academy

## PHOTOS



**DR .N.Bharathi**, Director, Grow More Biotech, Hosur in Inauguration of Marina-13 on 26<sup>th</sup> September 2013



**DR. Prakash Motiram Halami**, Principal Scientist, CSIR-CFTRI, Mysore in Valedictory function of Marina-13 on 27<sup>th</sup> September 2013



**Extension activity** at Peace Foundation, Paduvampalli on 2<sup>nd</sup> August 2013



Guest lecture by **Dr.Suhda Ramalingam**, Registrar, Office of Research, Department of community medicine, PSG centre for molecular medicine and therapeutics on 20<sup>th</sup> September 2013