



Dr. N.G.P. ARTS & SCIENCE COLLEGE

COIMBATORE - 641048

Accrdited by NAAC & Certified by ISO 9001 : 2008
(An Institution of Kovai Medical Center Research & Educational Trust)
(Affiliated to Bharathiar University, Coimbatore)



DEPARTMENT OF BIOTECHNOLOGY

NEWS LETTER

2014 - 2015

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Inauguration of the National Conference on "Biotechnology Present and Future for Sustainable Healthcare Development" by DR. P. Sundaresan, Senior Scientist, Department of Genetics, Aravind Medical Research Foundation, Madurai on 29.12.2014.

EDITOR'S DESK :

I am extremely happy to bring out the news letter of the Department for the academic year 2014-15. The modern scenario focuses much on new technologies like Biotechnology, Nanotechnology and Pharmaceutical Biotechnology. I strongly believe that this news letter will be of more use to the young readers in order to motivate the Bioscience community.
(DR.V.Shanmugaraju)

VISION

To implore the quality in education for research expansion and to construct

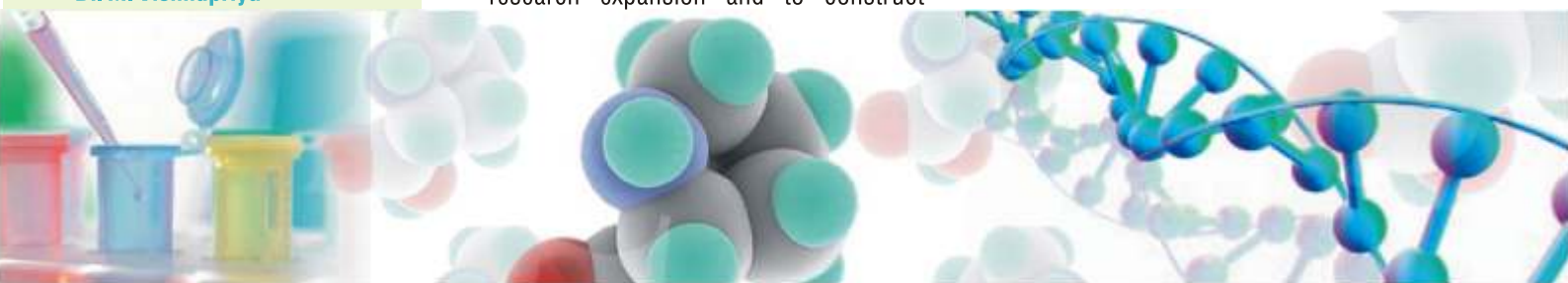
excellent bio entrepreneurship for self reliance with societal development.

MISSION

To impart knowledge and skills in students to equip themselves to be ready to face the emerging challenges in the Biotechnological field

To contribute in the advancement of knowledge through the applied research leading to the newer products and process.

To prepare the students to work for societal transformation with commitment to justice and equality.



ABOUT OUR DEPARTMENT

The Department was established in the year 2002 with the goal of rendering innovative education to the learning aspirants. Biotechnology is 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 7 staff members and 151 students.

Date	Activity
24.06.2014 & 25.06.2014	Orientation programme for freshers
04.07.2014 & 05.07.2014	Bridge course on "Basics of Biology" for non Biology students.
19.07.2014	Extension activity - Health Campaign for the Orphans in the Universal Peace Foundation at Padhuvampalli, Avinashi
21.07.2014	The students of III B.Sc and II M.Sc were taken to Agri index.
20.08.2014	The students of III B.Sc participated in various events in VII Louis Pasteur Memorial Symposium on "Momentous Microbes from Monoce to Marvel" organized by the Department of Microbiology, Dr.N.G.P. Arts and Science College.
28.08.2014	The students of III B.Sc attended Value Added Programme in Tamil Nadu Agricultural University on "Mushroom Cultivation".
10.09.2014	Student Development Programme on "Recent Trends in Biological Sciences and Health care". DR. D. Srinivasan MD (Psy).,DPM, Consultant in Psychological Medicine, Director (Global Academy for Total Empowerment), KMCH inaugurated the programme
16.09.2014	The students of III B.Sc attended Value Added Programme in Tamil Nadu Agricultural University on "Apiculture Technology"
24.09.2014	Bioentrepreneur Meet on "Opportunities and Challenges in Bioentrepreneurship". DR.R.Rajkumar, Director, Cellzyme Biotech India (P) Ltd,Coimbatore, Mr.S.K. Sarkar, General Manager, Accubot Automations (pvt), Coimbatore and Mr.J. Suresh, Area Sales Manager, Medox Biotech India (P) Ltd, Chennai delivered the special keynote address
17.10.2014	The students of III B.Sc participated in National Seminar on "Recent Innovations in Biosciences" organized by the Department of Biotechnology, Dr. R.V. College of Arts and Science, Karamadai.
05.02.2015 & 06.02.2015	The students of III B.Sc participated in National Conference on "Technical Advances in Textiles, Physical & Biological Sciences" organized by the Department of Costume Design & Fashion, Physics and Biotechnology, Nandha Arts and Science College, Erode
18.02.2015	Our students have participated in the International Conference on "Immunity to Infections" organized by the Department of Biotechnology, SNR Sons College, Coimbatore.

FACULTY ACHIEVEMENTS:

DR.V.Shanmugaraju has published 2 papers in International Journal and participated in Two day National Level hands on training on "Molecular Modeling" conducted by the Department of Pharmaceutical Chemistry, KMCH College of Pharmacy, Coimbatore on 15th & 16th September 2014. He also participated in the National seminar on "Recent innovations in Biological

science" conducted by the Department of Biotechnology, Dr. R.V Arts and Science College, Coimbatore on 17th October 2014 and participated in Science Academics Lecture workshop on "Interdisciplinary Approaches of Research in Life Science" on 19th & 20th December 2014. He also presented a paper in an International Conference on "Immunity to Infections" on 18th February 2015, organized by the Department of Biotechnology,

SNR Sons College, Coimbatore. He was invited as a resource person and delivered a talk on "Initiatives and Challenges of Stem cell therapy" in the Department of Biotechnology, RVS College of Arts and College, Coimbatore on 26.02.2015.

Mr. Arun.P has presented papers in an International Conference sponsored by SERB and DST on "Mathematical Science and its Computational Applications" on "Statistical Tools in Biological Science" organized by the Department of Mathematics, Dr.N.G.P. Arts and Science College on 11th & 12th August 2014 and in the Indian Council of Social Science Research sponsored one day National Seminar on "Problems and Prospects of Rural Banking and its Impact on Empowerment of Rural Households" on "Agri Rural Credit - A Review" organized by the Post Graduate and Research Department of Commerce with Information Technology and the Department of Commerce with Professional Accounting, Dr.N.G.P. Arts and Science College on 18th December 2014. He also attended the Training Programmes in Tamil Nadu Agricultural University on "Mushroom Cultivation" on 28.08.2014 and on "Apiculture Technology" on 16.09.2014.

Dr. P. Chidambara Rajan has completed Ph.D on 05.12.2014 in Biotechnology.

Mr. K. Arungandhi has published a paper in a reputed Journal and presented a paper in an International Conference on "Immunity to Infections" on 18th February 2015 organized by the Department of Biotechnology, SNR Sons College, Coimbatore and also presented a paper in the National seminar on "Biotechnology in Daily Life" on 20th February organized by PG &



Research Department of Biotechnology, Sri Vinayaga College of Arts and Science, Ulundurpet, Villupuram District.

Mrs. M.Shanmugavadivu has published 3 papers in reputed journals and presented a paper in the National conference on "Bioscience, Bioengineering & Environment (NCBBE- 2014)" and on "Synthesis of Silver nanoparticles using Lemon Peel Extract and its Antibacterial Activity " organized by the Department of Biotechnology & Industrial Biotechnology, Karpagam University, Coimbatore on 9th & 10th October 2014.

Dr. M. Vishnupriya has attended a Biotechnology Information Systems Sponsored training programme on "Plant Genome Analysis" in Tamil Nadu Agricultural University, Coimbatore, on 16.6.2014-20.6.2014 and presented a paper in the National conference on "Bioscience, Bioengineering & Environment (NCBBE- 2014)" on "Sustainable pond ecosystem" organized by the Department of Biotechnology & Industrial Biotechnology, Karpagam University, Coimbatore on 9th & 10th October 2014.

CONFERENCE -MARINA'14

SERB and KMCH supported the department to conduct the two Day National Conference on "Biotechnology - Present and Future for sustainable healthcare development" was organized on 29th -30th December 2014.

Name of the Resource Person	Address	Topic
 DR. P. Sundaresan	Senior Scientist, Department of Genetics, Aravind Medical Research Foundation, Madurai	Taking Research from Bench to Bedside
 DR. A. S. Krishnamoorthy	Professor, Department of Plant Pathology, Tamilnadu Agricultural University, Coimbatore	Mushroom Biotechnology - Challenges and Opportunities - Global Perspectives

 DR. Geetha N. Prashanth	Associate Professor, Department of Biotechnology, University of Mysore	Bioprospecting of Medicinal plants: A Source of Inspiration and Innovation of Excavate Hepatoprotective compounds
 DR. B. Ashok Kumar	Assistant Professor, Department of Genetic Engineering, Madurai Kamaraj University, Madurai	Genetic Disorders associated with Vitamin transport
 DR. K. G. Tirumurugan	Programme Director - Diagnostics platform for Veterinary Biologicals & Associate Professor, Department of Animal Biotechnology, Madras Veterinary College, Chennai	Biotechnology and Application in Livestock Health and Production: Our Research Contribution
 DR. Ranjith N. Kumavath	Assistant professor, Department of Genomic Science, School of Biological Science, Central University of Kerala, Kasaragod	Effect of surface layer biomolecules: as a Novel Antimicrobial and Anticancer activities produced from <i>Lactobacillus</i> and <i>Enterococcus</i> sp
 DR. K. Thangavel	Department of IPLS, Madurai Kamaraj University, Madurai	Plant Secondary Metabolites: Explorations <i>in vitro</i>

Invited Lectures/Talks

Date	Name of the Resource persons	Topic
27.06.2014	Mr. P. Vinoth Kannan, Joint Managing Director, Venkateshwara Dairy Farms, Coimbatore-32	Entrepreneurship Opportunities in Biotechnology
18.07.2014	DR. P. Manikandan, Scientist and Head, Department of Microbiology & Molecular Biology, Aravind Eye Hospital & PG Institute of Ophthalmology, Avinashi Road, Civil Aerodrome Post, Coimbatore-14	Research on Fungal infections with a special emphasis on ocular fungal infections
08.09.2014	DR. R. Sathish Kumar, Assistant Professor and Group Leader, Plant Genetic Engineering Laboratory, Department of Biotechnology, Bharathiar University, Coimbatore-46	Plants as Green Factories

17.09.2014	DR.S.R. Prabakaran, Assistant Professor and Group Leader, Molecular Microbiology Laboratory, Department of Biotechnology, Bharathiar University, Coimbatore-46	Bioprospecting of Microbes
04.02.2015	DR. A. Suganya, Principal Scientist (Economic Botany), Division of Crop Improvement, Sugarcane Breeding Institute (ICAR), Coimbatore-641007.	Biotechnological approaches for the conservation of plant species and genetic diversity
14.02.2015	DR. M. R. Srinivasan, Professor, Department of Agricultural Entomology, Tamilnadu Agricultural University, Coimbatore-641003	Honeybees for Agricultural Development

University Rank Holders (April 2014)

B.Sc Biotechnology

M. Abitha Selvi - II Rank
Annie paulose - VIII Rank

Students Achievements

Date	Name of the Students	Achievements
17.07.2014	Ms. S. Neena Sharma and Mr. Ravi. A.Hindocha of III B.Sc., Biotechnology	They won the first prize with cash award of Rs.600/- in Commercial Blast conducted by the Department of Commerce, Dr. N.G.P Arts and Science College, Coimbatore
30.07.2014	Ms. N.Kiruthiga and Ms. P. Sneha of III B.Sc., Biotechnology	They won the first prize with cash award of Rs.600/- in Professional Hunt - Puzzel conducted by the Department of Commerce(PA), Dr. N.G.P Arts and Science College, Coimbatore
31.07.2014	Ms. N.Dhivya of III B.Sc., Biotechnology	She won the second prize in Painting competition conducted during Breast Feeding Week Celebrations, Organized by the Department of Nutrition and Dietetics , Dr. N.G.P Arts and Science College, Coimbatore
31.07.2014	Ms. S.Indumathi of III B.Sc., Biotechnology	She won the third prize in Poster Presentation competition conducted during Breast Feeding Week Celebrations, Organized by the Department of Nutrition and Dietetics, Dr. N.G.P Arts and Science College, Coimbatore
02.08.2014	Ms. K.K.Priyadharshini of II B.Sc., Biotechnology	She got the first place in District Level Tournament in Nehru Stadium, Coimbatore
15.08.2014	Mr. V.Arun Sundar of I B.Sc., Biotechnology	He won the first prize in Tamil Poetry competition conducted during Independence Day Celebrations in Dr. N.G.P Arts and Science College, Coimbatore

09.09.2014	Mr. B. Arun Kumar of III B.Sc., Biotechnology and Mr.R.Dhana Singh of II B.Sc., Biotechnology	They won the second prize with cash award of Rs.400/- in Short Film Making in Teck-Knowledge-14 conducted by the Department of BCA, Dr. N.G.P. Arts and Science College, Coimbatore
10.09.2014	Ms. S.Nivetha and Ms. M. Parameshwari of II B.Sc., Biotechnology	They won the third prize in power point presentation in Student Development Programme on "Recent trends in Biological Science and Health care" organized by the Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore
10.09.2014	Ms. S.Nivetha and Ms. V. Sneha of II B.Sc., Biotechnology	They won the third prize in poster presentation in Student Development Programme on "Recent trends in Biological Science and Health care" organized by the Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore
10.09.2014	Mr. M.Vignesh and Mr. E. Mahesh Kumar of II B.Sc., Biotechnology	They won the first prize in Model exhibition in Student Development Programme on "Recent trends in Biological Science and Health care" organized by the Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore
10.09.2014	Ms. S.Neena Sharma and Ms. P. Nandhini of III B.Sc., Biotechnology	They won the second prize in Model exhibition in Student Development Programme on "Recent trends in Biological Science and Health care" organized by the Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore
10.09.2014	Mr. G.Vasanth and Mr. Shahinsha of II M.Sc., Biotechnology	They won the third prize in Model exhibition in Student Development Programme on "Recent trends in Biological Science and Health care" organized by the Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore
15.09.2014	Ms. S. Safiya and Ms.PSneha of III B.Sc.,Biotechnology	They won the first prize with cash award of Rs.300/- in Mehendi competition conducted by the Department of Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore
15.09.2014	Ms.K. Devi and Ms.R.Yaminipriya of III B.Sc., Biotechnology	They won the second prize with cash award of Rs.200/- in Quick food competition conducted by Department of Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore
22.12.2014	Ravi .A. Hindocha of III B.sc Biotechnology	He won the III Prize with cash award of Rs.400/- in Just a Minute conducted for "NGP fest 2014"

22.12.2014	Jinu Jereena of III B.sc Biotechnology	She won the II Prize with cash award of Rs.800/- in Isaiaruvi conducted for "NGP fest 2014"
22.12.2014	S.Manivannan of III B.sc Biotechnology	He won the II Prize with cash award of Rs.500/- in Pencil Sketching conducted for "NGP fest 2014"
22.12.2014	A.M. Athulya of III B.sc Biotechnology	She won the II Prize with cash award of Rs.500/- in Ester Eggs conducted for " NGP fest 2014"
18.02.2015	N. Parvez and M. Helga Jenifer of I B.Sc Biotechnology	They won the II prize in poster presentation in International Conference on "Immunity to Infections" organized by the Department of Biotechnology, SNR Sons College, Coimbatore.



Invited Lecture on "Plants as Green Factories" by DR. R. Sathish Kumar, Assistant Professor and Group Leader, Plant Genetic Engineering Laboratory, Department of Biotechnology, Bharathiar University, Coimbatore on 08.09.2014.

Inauguration of the Student Development Programme on "Recent Trends in Biological Sciences and Healthcare" by Dr.D.Srinivasan, Consultant in Psychological Medicine, Director (Global Academy for Total Empowerment), Kovai Medical Center and Hospital on 10.09.2014.





Inauguration of Bioentrepreneur meet on " Opportunities and Challenges in Bioentrepreneurship" by DR.R.Rajkumar, Director, Cellzyme Biotech India (P) Ltd, Coimbatore on 24.09.2014.

Dr. K.G. Tirumurugaan, Programme Director - Diagnostics platform for Veterinary Biologicals & Associate Professor, Department of Animal Biotechnology, Madras Veterinary College, Chennai delivered a talk on " Biotechnology and Application in Livestock Health and Production: Our Research Contribution" in MARINA 14 on 30.12.2014



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