



## 4<sup>th</sup> NABS-Interactive Workshop

*Theme*  
Biotechnological Applications for Sustainable  
Development

### Series No. 4

The fourth interactive workshop is unique that the program was organized for two days for the first time. Hereinafter, Interactive Workshop will be held for two days. Fourth Interactive Workshop on “Biotechnological Applications for Sustainable Development” was organized at the initiatives of President, NABS at PRIST University, Thanjavur for two days from 12 to 13 March 2011.

Besides the President, NABS Dr. M. Subramanian, Dr. M. Anandaraj, Dr. T.L. Baskaran and Dr. T. Marimuthu were present.

### General Particulars

Date : 12-13, March, 2011  
Venue : PRIST University, Thanjavur

#### Inaugural function

Presided over by : Prof. S. Kannaiyan  
President, NABS  
Chief Guest : Prof. P. Murugesan  
Chancellor, PRIST University,  
Thanjavur  
Guest of honor : Dr. N. Ethirajulu  
Vice Chancellor, PRIST University,  
Thanjavur

#### Valedictory function

Presided over by : Prof. S. Kannaiyan  
President, NABS

Technical session-I was chaired by Prof. Dr. S. Kannaiyan, President of NABS and Co-chaired by Dr. M. M. Mustafa, Director, National Research Centre for Banana, Triuchirappalli, Tamil Nadu and Dr. V. A. Parthasarathy, Editor of NABS Newsletter and the Director, Indian Institute of Spices Research, Calicut, Kerala. The following papers were presented and discussed.

## Technical Session-I

No.	Papers presented	Speakers
1	RNA interference in the management of plant viral diseases with special reference to banana viruses	<b>Dr. R.Selvarajan</b> National Research Centre for Banana, Tiruchirappalli-620 102, Tamil Nadu selvarajanr@gmail.com
2	Biological control of plant diseases	<b>Dr. S. Nakkeeran,</b> Department of Plant Pathology, Tamil Nadu Agricultural University Coimbatore – 641 003, Tamil Nadu nakkeeransingai@yahoo.com
3	Advances in biotechnology of spices	<b>Dr. D. Prasath</b> Indian Institute of Spices Research, Marikunnu P O, Calicut - 673 012 Kerala prasath@spices.res.in
4	Recent trends in food biotechnology for value addition and beneficial properties	<b>Dr. Renu Agrawal</b> Department of Food Microbiology, Central Food Technological Research Institute, Mysore, India. renuagrawal46@gmail.com
5	Tissue culture and its role in food security	<b>Dr. J. Subramani</b> Shanthi Agrotech, Bangalore, Karnataka subramani_jogi@hotmail.com
6	Fascinating fungal biomolecules for human and plant health - Current vistas in mushroom biotechnology	<b>Dr. A.S. Krishnamoorthy</b> Directorate of Agribusiness Development, Tamil Nadu Agricultural University, Coimbatore – 641 003 milkmush@rediffmail.com
7	Bioactive potential of <i>Morinda citrifolia</i> L. and <i>Morinda pubescens</i> J.E.Smith	<b>Dr. N. Mathivanan</b> Biocontrol and Microbial Metabolites Lab, Centre for Advanced Studies in Botany, University of Madras, Maraimalai Campus, Guindy, Chennai – 600 025 prabhamathi@yahoo.com

Technical session-II was chaired by Prof. Dr. S. Kannaiyan, President of NABS and Co-chaired by Dr. V. A. Parthasarathy, Editor of NABS Newsletter and the Director, Indian Institute of Spices Research, Calicut, Kerala and Dr. M. Anandaraj, Member of Executive Council of NABS. The following papers were presented and discussed.

### Technical Session-II

8	Assessment of DNA polymorphism induced by gamma radiation in aonla using RAPD method	<b>Dr. B. Senthamizh Selvi</b> Horticultural Research Station, Tamil Nadu Agricultural University Kodaikanal – 624 103, Tamil Nadu hrskodai@tnau.ac.in; sureshpreet2006@yahoo.co.in
9	Understanding host-pathogen interactions in the genomic era	<b>Dr. M. Anandaraj</b> All India Coordinated Research Project on Spices Indian Institute of Spices Research Calicut 673 012, Kerala anandaraj@spices.res.in

### Poster Presentations

For the first time poster session was organized during the 4<sup>th</sup> Interactive Workshop. Poster presentations were presented on the theme of the workshop under different topics like General, Medicinal Plants, Pests and Diseases, Biodiversity and Microbiology. Best Posters were presented with "Best Poster Award" during the valedictory function held on 13<sup>th</sup> March, 2011.

Separate poster session was held on the theme of the workshop under different topics like General, Medicinal Plants, Pests and Diseases, Biodiversity and Microbiology. Best Poster Awards were awarded on 13<sup>th</sup> March, 2011.

### Award winning Posters:

No.	Posters presented	Author(s)
<b>General</b>		
1	Effect of different sources and levels of potassium on HPLC separation of capsanthin content of paprika ( <i>Capsicum annuum</i> L.) cv.KtPl-19 under fertigation system	<b>G. Sathish, V. Ponnuswami, N. Kumar and J. Suresh</b> Horticultural Research Station, Tamil Nadu Agricultural University Kodaikanal – 624 103, Tamil Nadu hrskodai@tnau.acin

No.	Posters presented	Author(s)
2	Quality evaluation of banana varieties for specific target groups	<b>K.N. Shiva, M. Mayil Vaganan and M.M. Mustaffa</b> National Research Centre for Banana, Tiruchirapalli – 620 102, Tamil Nadu knshiva5@gmail.com
<b>Medicinal Plants</b>		
3	<i>In vitro</i> multiplication and <i>ex situ</i> conservation of threatened medicinal plant <i>Baliospermum montanum</i>	<b>R. Elango Mathavan, S. Patharajan and S. Ramesh</b> PRIST University, Thanjavur relangomathavan@gmail.com
4	Hepatoprotective and proteomic mechanism of <i>Crinum asiaticum</i> (L.) against carbon tetrachloride induced oxidative stress in Swiss albino mice	<b>S. Ilavenil, B. Kaleeswaran and S. Ravikumar</b> PRIST University zookaleesh@yahoo.com
<b>Pests and Diseases</b>		
5	Effect of antiviral phyto proteins for the management of TOSPO virus infection in Tomato	<b>P. Renukadevi, S. K. Manoranjidham and S. Nakkeeran</b> Tamil Nadu Agricultural University, Coimbatore – 641 003, Tamil Nadu pathorenu@yahoo.co.in
<b>Biodiversity</b>		
6	Biodiversity of spiders in three food legume crops of Tamil Nadu	<b>V. Sudha and K. Samiayyan</b> Tamil Nadu Agricultural University, Coimbatore-641 003 samientomology@gmail.com
<b>Microbiology</b>		
7	Biosynthesis of silver nanoparticles using <i>Agaricus bisporus</i> as a myconanofactory	<b>S. Latha and D. Dhanasekaran</b> Bharathidasan University, Tiruchirappalli – 620 024 Tami Nadu, India. microlatha86@gmail.com