

Second National Symposium

Innovative Approaches and
Modern Technologies for
**Crop Productivity, Food Safety and
Environmental Sustainability**

19-20 November, 2012

Venue

Hotel

Mangala
Towers

Paliyam Road, Near Vadakke Bus Stand
Thrissur 680001, Kerala

Organized by
Society for Applied Biotechnology
www.sabt.org.in



About the Symposium

A great deal of global concern is mounting over an ever growing list of environmental problems. India's growing population is the primary cause of India's environmental degradation. Increase in population ultimately posing a pressure on natural resources, while high-gear economy is leaving a trail of pollution that affects the whole world. There is a lack of vision and planning in foreseeing environmental issues. Pollution, mass deforestation, dropping water table, wildlife loss, land degradation, drought due to climate change and hike in population are those major critical issues that India struggles with every day.

Nearly one billion people in the world are undernourished and millions suffer from chronic disease due to food insecurity, an issue of global importance, results from climate change, urban development and population growth. Malnourishment and hunger leads to individuals fail to provide food for their families, reduce the ability of adults to work, reduce to give birth to healthy children, and erode ability to learn and lead productive, healthy and happy lives. This undermines a country's potential for substantial health and economic development for generations to come. There are evident direct relationships between agricultural productivity, hunger and poverty. Climate change threatens more frequent drought, flooding and pest outbreaks, and the world loses 12 million hectares of agricultural land each year by land degradation. And directly it countenance environmental, economic and social challenges of the country. Hunger and child malnutrition are greater in these areas than in urban areas. As the global population approaches nine billion, the food and feed crop demand is likely to double in the next 50 years. In future, farmers will find things steadily more difficult due to environmental degradation, climate change, excess utilization of chemicals, quality of the seeds and a series of other threats.

Need to find solutions for these issues become more urgent every day. To overcome this issue researchers are looking for large scale responses for stepping up into commercial agricultural techniques by introducing modern and sustainable technologies in agricultural practices. Alternative and modern practices are having potential to increase agricultural productivity which enables farmers to grow more food, which translates into better diets and higher farm incomes. Environmental pollution, food insecurity and agricultural productivity are already inhibiting human well-being and economic growth throughout the world.

To address these alarming patterns, SAB organizing second national symposium to provide platform to discuss and find sustainable solutions for the above said issues. The present symposium will have special focus on demonstrating innovative approaches, modern technologies and their applications for food, agriculture, environment and the major themes are as follows:

- ✓ Modern perspectives in agriculture - approaches, challenges and opportunities
- ✓ Crop diversification, sustainable utilization and biodiversity conservation
- ✓ application of biotechnology and nanotechnology to increase agricultural productivity
- ✓ sustainable and eco-friendly approaches for agricultural productivity
- ✓ environmental management of degraded ecosystems and reclamation of polluted soils
- ✓ biodegradation and bioaccumulation of oils, heavy metals and other toxic pollutants
- ✓ identification, characterization and preservation of biodiversity through modern techniques
- ✓ food safety, food security and poverty alleviation
- ✓ Impacts of global warming and climate change on agriculture and environment
- ✓ impact of genetically modified organisms and other biotechnology products

Society for Applied Biotechnology

The society with its registered office at Krishnagiri in Tamil Nadu was established with the vision to promote and propagate the use of biotechnology, to collect and disseminate the biotechnology information, to publish books and journals for research, development and furtherance of biotechnology and to conduct conferences, seminars, symposia and workshops for the biotechnology community. The society regularly admits fellow/life members and also publishing an international journal, Biotechnology, Bioinformatics and Bioengineering. For further details, visit www.sabt.org.in



Supporting Journals

This symposium is supported by the following scientific journals. Some of the articles to be presented in the symposium will be considered for publication in these journals after the symposium.



Acta Biologica Indica

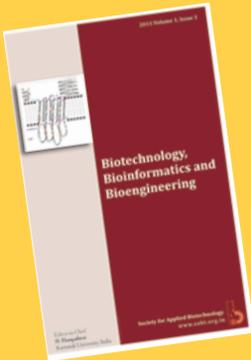
www.bioscipub.com/journals/abi

The journal publishes reviews, research articles and short communications written in English in the most exciting research areas related to agricultural sciences, animal science, biochemistry, biophysics, plant sciences, cell biology, conservation biology, ecology, embryology, entomology, environmental biology, evolutionary biology, genetics, integrative biology, marine biology, biomedical sciences, microbiology, parasitology, pharmacology, physiology, reproductive biology, structural biology, toxicology, veterinary sciences and all other areas of modern biology.

Biotechnology, Bioinformatics and Bioengineering

www.bioscipub.com/journals/bbb

The journal publishes original reviews, research articles and short communications written in English in all fields of biotechnology, bioinformatics and bioengineering. Manuscripts reporting results of theoretical and experimental studies on any aspect of plant biotechnology, medical biotechnology, animal biotechnology, food biotechnology, agricultural biotechnology, industrial biotechnology, microbial biotechnology, environmental biotechnology, marine biotechnology, aquaculture biotechnology, bioinformatics, *in silico* biology, genomics, proteomics, metabolomics, pharmacogenomics, transcriptomics, drug discovery, drug designing, molecular docking, nanoscience and technology, biochemical engineering, biophysical engineering, biomedical engineering, bioprocess engineering, tissue engineering, cell engineering, metabolic engineering and genetic engineering will be considered for publication.



Call for Abstracts

Abstracts are invited from scientists, academicians, researchers, scholars and students for oral and poster presentation. The abstract (250 words; Times New Roman; 10.5 pt) can be sent preferably by email to drtsangeetha@gmail.com/sangeetha@sabt.org.in

Best Paper, Best Paper Presentation and Best Poster Awards

A number of best papers (3), best paper presentations (6) and best posters (3) will be conferred with Certificate of Merit during the valedictory session of the symposium.

FSAB and SAB Merit Awards

Society for Applied Biotechnology also invites applications/nominations for the award of FSAB (Fellow, Society for Applied Biotechnology) and for the following SAB Merit Awards:

- Young Investigator Award
- Young Innovator Award
- Young Scientist Award
- Talent Award
- Women Scientist Award
- Cullan Devarajan Memorial Award
- Award of Excellence in Sustainable Agriculture, Sustainable Aquaculture, Food Safety, Food Security, Environmental Management, Waste Management, and Biodiversity Conservation
- Outstanding Achievement Award
- Lifetime Achievement Award
- Leadership Award

For guidelines and instructions, submit your CV to drdthangadurai@gmail.com/thanga@sabt.org.in

Accommodation and Site Tour

Accommodation will be arranged at nominal cost to the delegates in the guest house and hotels at Thrissur on payment basis. Also, considering the interest of delegates, transportation and other facilities can be arranged for site tour on 21st November, 2012.

Symposium Organizing Committee

Chairpersons

Prof. D.P. Biradar
University of Agricultural Sciences, Dharwad, Karnataka
Dr. Shirish A. Ranade
National Botanical Research Institute, Lucknow, Uttar Pradesh
Dr. Keya Chaudhuri
Indian Institute of Chemical Biology, Kolkata, West Bengal
Prof. Pratibha Sharma
Indian Agricultural Research Institute, Pusa, New Delhi

Convener

Dr. Jai S. Ghosh
Shivaji University, Kolhapur, Maharashtra

Organizing Secretary

Dr. Devarajan Thangadurai
Karnatak University, Dharwad, Karnataka

Programme Secretary

Dr. Jayabalan Sangeetha
Society for Applied Biotechnology, Krishnagiri, Tamil Nadu

Members

Dr. V.M. Kannan
University of Calicut, Thenghipalam, Kerala
Dr. E.V. Soniya
Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala
Dr. P.G. Vathsala
Indian Institute of Science, Bangalore, Karnataka
Dr. Basavaraj S. Hungund
BVB College of Engineering and Technology, Hubli, Karnataka
Dr. Vijai K. Gupta
National University of Ireland, Galway, Ireland
Dr. Anusha Bhaskar
PRIST University, Thanjavur, Tamil Nadu
Dr. S.R. Madhan Shankar
PSG College of Arts & Science, Coimbatore, Tamil Nadu
Dr. Moses J. Kolet
BN Bhandodkar College of Science, Thane, Maharashtra
Dr. R. Raganathan
Maharaja Arts & Science College, Perundurai, Tamil Nadu
Dr. Om Prakash Aishwath
National Research Centre on Seed Spices, Ajmer, Rajasthan
Dr. Usha D. Muraleedharan
Goa University, Taleigao Plateau, Goa
Dr. Sharada M. Potukuchi, Dr. Preeti Sharma
Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir
Dr. Ashis K. Samanta
National Institute of Animal Nutrition and Physiology, Bangalore, Karnataka

Important Deadlines

Submission of Abstract – 24th October 2012
Notification of Acceptance – 27th October 2012
Final Registration - 31st October 2012

Registration Fee

Faculty/Scientists: ₹ 1400/-
Research Scholars/Students: ₹ 1200/-
SAB Fellows/Life Members: ₹ 1100/-

The registration fee must be paid by non-refundable Demand Draft (DD) in favor of 'Society for Applied Biotechnology' payable at Dharwad (Karnataka) and send to Dr. D. Thangadurai, Department of Botany, Karnatak University, Dharwad, 580003, Karnataka. Please note that this symposium is for 150 participants only and hence, no spot registration facility is available.

For further details, please contact

Dr. Devarajan Thangadurai PhD

Department of Botany, Karnatak University
Dharwad, 580003, Karnataka

Email: drdthangadurai@gmail.com/thanga@sabt.org.in
Mobile: 0 9482685270/9482685280/9986050133

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 **Registration form** 

Name: _____

Designation: _____

Address for Communication: _____

Mobile: _____

E-Mail: _____

Presentation: *Oral* *Poster*

Accommodation Required: *Yes* *No*

Registration Details

Category:

Faculty/Scientists

Research Scholars/Students

SAB Fellows/Life Members

D.D. No.: _____

Bank Name and Branch: _____

Signature of the Participant

For further details contact

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Dharwad 580003, Karnataka
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