



सत्यमेव जयते

# **NATIONAL CONFERENCE ON AGRO BIODIVERSITY**

February 12 - 15, 2006

## **PROGRAMME**



### **NATIONAL BIODIVERSITY AUTHORITY**

No. 475, 9th South Cross Street,  
Kapaleeswarar Nagar, Neelangarai,  
Chennai - 600 047.

Phone : 044-24492777; 24491390

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**K****X****INAUGURAL SESSION**

**Date : 12.02.2006      Venue : Panikkar Hall  
NIOT**

**Time : 3.00 p.m.**

**Registration : 11.00 AM**

**Dr. KIRTI SINGH**, Ph.D, FNASC, FNAAS  
Ex.Chairman, ASRB, Govt.of India, New Delhi  
*Inaugurates the Conference*

**Dr. S. NAGARAJAN**, Ph.D, FNAAS  
Chairman, PPVFR, Govt. of India, New Delhi  
*Delivers Key Note Address*

**Prof. K. PRADHAN**, Ph.D, FNAVS, FNAAS  
Former Vice-Chancellor, OUAT, Bhubaneshwar  
*Delivers the Special Address*

**Prof. S. KANNAIYAN**, Ph.D, FNAAS, FABI (USA)  
Chairman, NBA, Govt. of India, Chennai  
*Presides*

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**K****X**

# TECHNICAL SESSION - I

## PLANT GENETIC RESOURCES – I

(Rice, Wheat and Oilseeds)

Chairman : Dr E.A.Siddiq

Date : 13.2.2006 FN

Co-Chairman : Dr. Harcharan S.Dhaliwal

Venue : Rajendra Chola Hall

Rapporteurs : Dr. L. Leenakumari  
Dr.K.Nilakanta Pillai

- 9.00 – 9.20 AM Rice genetic resources of Kerala : Collection, conservation, evaluation and use - **S.Leenakumari**
- 9.20 – 9.40 AM Genetic diversity in rice and conservation of germplasm - **M.Subramanian** and S.Thirumeni
- 9.40 – 10.00 AM The sustainable management of diversity in rainfed upland rice ecosystem - **P.K.Sinha** and C.V. Singh
- 10.00 – 10.20 AM Studies on genetic diversity and grain yield response of rice cultivars under upland condition - **A.John Joel** and T.S.Raveendran
- 10.20 – 10.40 AM Tea Break**
- 10.40 – 11.00 AM Biodiversity of weeds in the rice ecosystems - **V.Chellamuthu** and R.Poonguzhalan
- 11.00 – 11.20 AM Productivity gains have reduced diversity for end use quality in wheat - **B.K.Misra** and Rajiv K Sharma
- 11.20 – 11.40 AM Genetic diversity of land races of wheat from hilly areas of Uttaranchal, India - **P.Routry**, M.Garg and H.S.Dhaliwal

- 11.40 – 12.00 Noon      Status of genetic biodiversity of oil seeds in India. - **V.Muralidharan**, N.Manivannan and P.Vindhyavarman
- 12.00 – 12.20 PM      Rapseed – Mustard biodiversity: Management and utilization - **Arvind Kumar** and A.K.Misra
- 12.20 – 12.40 PM      Biodiversity in Sesame - **K.Nilakantapillai** and M.Subramanian
- 1.30 – 2.30 PM      Lunch Break**

## TECHNICAL SESSION - II

### ANIMAL GENETIC RESOURCES

**Chairman      : Prof.K. Pradhan                      Date      : 13.2.2006 FN**

**Co-Chairman : Dr. P.Thangaraju                      Venue    : Varuna Hall**

**Rapporteurs : Dr. R. Prabakaran  
                   Dr. S. Jeyakumar**

- 9.00 – 9.20 AM      Diversity in animal genetic resources in Tamil Nadu - **P.Thangaraju** and S.M.K.Karthickeyan
- 9.20 – 9.40 AM      Biodiversity in Domesticated Chicken: Evaluation and Exploitation - **Raj Vir Singh** and Deepak Sharma
- 9.40 – 10.00 AM      Diversity in Poultry Species – **V.Sundarraju**
- 10.00 – 10.20 AM      Cattle Biodiversity in India: Need of its conservation. – **RS Chauhan** and Harpal Singh
- 10.20 – 10.40 AM      Biochemical variants in chicken - **R.Prabakaran**
- 10.40 – 11.00 AM      Tea Break**

- 11.00 – 11.20 AM Indian faunal biodiversity vis-a-vis Biopiracy – **A.K.K.Unni and** Francis Xavier
- 11.20 – 11.40 AM Management of farm animal genetic resources for sustainable animal farming and food security - **T.Sivakumar**, and M. Murugan.
- 11.40 - 12.00 Noon Diversity in group a rotaviruses - **Minakshi** and Gaya Prasad
- 12.00 – 12.20 PM Biodiversity and conservation of sheep genetic resources of India - **VK Singh** and A K Mishra
- 12.20 – 12.40 PM Animal genetic resources in Andaman and Nicobar islands - **S.Jeyakumar**, R. B. Rai, A. Kundu, Jai Sunder, T. Sujatha and B. Ganesh Kumar.
- 1.30 – 2.30 PM Lunch Break**

## TECHNICAL SESSION - III

### PLANT GENETIC RESOURCES - II

(Millets, Sugarcane and Cotton)

**Chairman** : Dr. M.Mahadevappa                      **Date** : 13.2.2006 AN

**Co-Chairman** : Dr. M.Subramanian                      **Venue** : Rajendra Chola Hall

**Rapporteurs** : Dr. V.Muralidharan  
Dr. U.S.Natarajan

- 2.30 – 2.50 PM Sorghum and millet genetic resources management - **N.Seetharama**, M.Elangovan, S.Khairwal, K.T.Krishnagowda, A.Seetharam, V.A.Tonapi and N.Sivaraj
- 2.50 – 3.10 PM Indian plant genetic resources: Scenerio, collection, strategies and conservation - **K.Muthuchelian**

3.10 – 3.30 PM	Genetic diversity, germplasm resources and its utilization in cotton - <b>K.N.Gururajan</b> and K. Mohanraj
<b>3.30 – 3.50 PM</b>	<b>Tea Break</b>
3.50 – 4.10 PM	Genetic diversity in sugarcane - <b>U.S.Natarajan</b>
4.10 – 4.30 PM	Sugarcane varietal biodiversity in India – <b>N.Balasundaram</b>
4.30 – 4.50 PM	Comparing Indian and exotic wild sugarcane ( <i>S.spontaneum</i> ) collections under Coimbatore conditions.- <b>S.Shanmugasundaram</b>
<b>6.00 – 7.00PM</b>	<b>Cultural Programme</b>
<b>7.30PM</b>	<b>Dinner</b>

## TECHNICAL SESSION - IV

### SOCIAL INTERVENTION AND BIODIVERSITY CONSERVATION

**Chairman** : Dr. R.P.Singh

**Date** : 13.2.2006 FN

**Co-Chairman**: Dr. S.R.Subramanian

**Venue** : Zahoor Quasim Hall

**Rapporteurs** : Dr. A.Gopalam  
Dr. M.Chinnadurai

9.00 – 9.20 AM

People friendly pathways of tempering agro-natural resources for secure livelihood - **V.Arunachalam** and V Arivudai Nambi

9.20 – 9.40 AM

Role of community level organizations in the bioresources maintenance - **V.Veerabhadrachari**

9.40 – 10.00 AM	Institutional intervention in the planning and utilization of natural resources - <b>M.Chinnadurai</b> and S R Subramanian
10.00 – 10.20 AM	Network Activity Model(NAM) Vis-À-Vis community systems as the harbinger of biodiversity protection in India - <b>Vilas A.Tonapi</b> , Ch. Ravinder Reddy, M. Elangovan and N. Seetharama
10.20 – 10.40 AM	On the role of women in the management of Biodiversity and Bioresources - <b>A.Gopalam</b> , P V R M Reddy and T Madhavi
<b>11.00 – 10.20 AM</b>	<b>Tea Break</b>
10.40 – 11.00 AM	Molecular technique as useful tools in the protection and conservation - <b>R. Mathusudhana</b> , Vilas A.Tonapi, D.Balakrishna, B.Venkatesh Bhat, A.V.Uma Kanth and N.Seetharaman
11.00 – 11.20 AM	HRD Strategies and models for conservation, development and utilization of Agro bioresources – <b>K.A.Ponnusamy</b> and B.Shanmugasundaram
11.20 – 11.40 AM	Rural development and poverty alleviation among formers – <b>V.S.Korikanthimath</b> and B.L.Manjunath
<b>1.30 – 2.30 PM</b>	<b>Lunch Break</b>

## TECHNICAL SESSION - V

### POLICY ISSUES IN AGROBIODIVERSITY

Chairman : Dr.A.K.Ghosh

Date : 13.2.2006 AN

Co-Chairman : Dr.D.Chandramohan

Venue : Zahoor Quasim Hall

Rapporteurs : Dr.S.K.Soam

Dr. Hemal Kanvinde

- 2.30 – 2.50 PM Access and benefit sharing – **S.Ganesan**
- 2.50 – 3.10 PM Policy issues for maintenance and sustainable use of Biodiversity - **S.R.Subramanian** and M Chinadurai
- 3.10 – 3.30 PM Economic evaluation of Biodiversity concepts and methods - **G.P.Reddy**
- 3.30 – 3.50 PM Tea Break**
- 3.50 – 4.10 PM Gender issues in farming systems for equity and nutritional security - **H.Pandey** and B.N.Sadangi
- 4.10 – 4.30 PM Socio-economic approach and strategy for Biodiversity conservation: An overview - **K.Sakthi** and K.Muthuchelian
- 4.30 – 4.50 PM Agriculture diversity of the upper Himalayas-A case study of the Bhotiyas in the Chaudas valley - **Vineeta Hoon**
- 4.50 – 5.10 PM Sustainable use and conservation of Agrobiodiversity through protecting as goods of geographical indications - **S.K.Soam**
- 5.10 – 5.30 PM Transformation in agriculture: A gender perspective - **Hemal S.Kanvinde**
- 5.30 – 5.45 PM Conserving India's Agrobiodiversity: Prospects and implications for sustainable livelihood and equitable access and benefit sharing - **C.S.Silori**



6.00 – 7.00 PM Cultural programme

7.30PM Dinner

## **TECHNICAL SESSION - VI**

### **FISH GENETIC RESOURCES AND CONSERVATION**

Chairman : Dr. Yusuf Kamal Date : 13.2.2006 AN

Co-Chairman : Dr.B.R.Subramaniam Venue : Varuna Hall

Rapporteurs : Dr. S. Rajagopal  
Dr.G.Gopakumar

2.30 – 2.50 PM Conservation and utilization of freshwater fishery resources - **M. Sakthivel**

2.50 – 3.10 PM Biodiversity and conservation measures for the shell fish resources of Gulf of Mannar - **R.Santhanam**

3.10 – 3.30 PM Sustainable utilization of fishery by catch resources from Coastal Ecosystems – S.M.Raffi and **T.Balasubramanian.**

**3.30 – 3.50 PM Tea Break**

3.50 – 4.10 PM Fishery resources in India - **K.Venkataraman**

4.10 – 4.30 PM Diversity and conservation of marine ornamental fishes – **G. Gopakumar**

4.30 – 4.50 PM Status of aquaculture in India - **H.Mohammed Kasim.**

4.50 – 5.10 PM Diversity and utilization of unutilized Biodiversity of fresh water prawns of the Genus *Macrobrachium* (Palaemonidae) of India - **K.V.Jayachandran**

5.10 – 5.30 PM	Bioresources technology transfer to coastal fishers to develop Entrepreneurship and for alternate employment - <b>R.Venkatesan</b> and M.Vijayakumaran
5.30 – 5.50 PM	Viral diseases of marine shrimps and fresh water prawn in India - <b>A.S Sahul Hameed</b>
5.50 – 6.10 PM	Biodiversity of ornamental fishes of Gulf of Mannar - <b>V.K.Venkataramani</b>
6.10 – 6.30 PM	Ornamental fishes and conservation - <b>S. Rajagopal</b> and S. Dhanya
6.30 – 6.50 PM	Conserving India's Fish diversity – <b>W.S.Lakra</b>
6.50 – 7.10 PM	Sea Weeds: Diversity and Cultivation in Southeast coast of India - <b>K. Eswaran</b> , M.Ganeshan, S.Thirupathy and B.Jha
6.00 - 7.00 PM	Cultural Programme
<b>7.30PM</b>	<b>Dinner</b>

## TECHNICAL SESSION - VII

### DIVERSITY OF PHYTOPATHOGENS AND CONSERVATION OF EDIBLE MUSHROOMS

Chairman : Dr. S. Nagarajan                      Date : 14.2.2006 FN

Co-Chairman : Dr. S. Edison                      Venue : Rajendra Chola Hall

Rapporteurs : Dr. T.L. Baskaran  
Dr. R.D. Rai

9.00 – 9.15 AM                      Biological diversity of rhizosphere bacteria developed as agents of biological control of rice diseases in India-**S.S.Gnanamanickam** and J. Ebenezar Immanuel

- 9.15 – 9.30 AM Pathogen diversity and disease management in plants - **R.Sridhar** and J N Reddy
- 9.30 – 9.45 AM Pathogenic diversity in *Phytophthora* affecting horticultural crops - **M.Anandaraj**
- 9.45 – 10.00 AM Genetic resources of potato and late blight resistance sources – **S. K. Kaushik**, S K Pandey, Vinoth Kumar, Vinay Bharatwaj and B P Singh
- 10.00 – 10.15 AM Biodiversity of *Pseudomonas* and plant production - **R.Samiyappan**, D. Saravanakumar, L. Rajendran, S. Nakkeeran, T. Raghuchander and G. Karthikeyan
- 10.15 – 10.30 AM Fungal Bio-resources of the Western Ghats, India - **D. J. Bhat**
- 10.30 – 10.50 AM Tea Break**
- 10.50 – 11.05 AM Plant growth promoting Rhizobacteria of crop plants and their application in crop improvement and disease control - **B.S. Dileep Kumar**, S.Dutta and A.K.Misra
- 11.05 – 11.20 AM Biodiversity of Oyster mushroom (*Pleurotus* Spp) and paddy straw mushroom (*Volvariella* spp.) - **T. Marimuthu**, A.S.Krishnamoorthy and K Prabhu
- 11.20 – 11.35 AM Diversity and potential medicinal values of mushrooms, Reishi (*Ganoderma* spp.) - **R.D. Rai**
- 11.35 – 11.50 AM Diversity in *Agaricus* spp. and production technology of button mushroom - **B.L. Dhar**
- 11.50 – 12:05 PM Ringspot Virus: A deadly disease of papaya - **S.Chowdhary**, K. Singh and N.V. Kumbhare
- 12.05 – 12.20 PM Wild mushroom fungi of Chattisgarh State. - **M. P. Thakur**, C. S. Shukla and Vijay Yadav.

- 12.20 – 12.35 PM Biodiversity of milky mushroom (*Calocybe* spp)  
– **A.S. Krishnamoorthy**, G. Amutha and  
T. Marimuthu
- 12.35 – 12.50 PM Exploring the biogeographical diversity of  
*Trichoderma* for human welfare -  
**S.Nakkeeran**, G.Chandrasekar,  
R. Samiyappan and T.Marimuthu
- 12.50 – 1.05 PM Integrated disease management in Vanilla. -  
**B.B.Suryawanshi** and S .P. Raut
- 1.05 – 1.20 PM Viral diseases of papaya - **S.K.Sharma**
- 1.30 – 2.30 PM Lunch Break**
- 2.30 – 2.45 PM Cultivation and diversity of *Auricularia* and  
*Ganoderma* of Uttaranchal - **R.P.Singh** and  
K. K Mishra
- 2.45 – 3.00 PM Diversity of wheat rust resistance in India -  
**Jag Shoran, M. Prashar** and B. Mishra

## TECHNICAL SESSION - VIII

### BIODIVERSITY OF HORTICULTURAL CROPS I

(Fruits, Vegetables, Spices and Plantation Crops)

**Chairman : Dr. Kirti Singh**                      **Date : 14.2.2006 FN**

**Co-Chairman : Dr. K.E.Lawande**                      **Venue : Varuna Hall**

**Rapporteurs : Dr. M.N.Sheela**  
**Dr. J.Suresh**

09.00 – 9.20 AM Biodiversity of tropical tuber crops -**S.Edison**,  
K. Abraham, B. Vimala, M. Unnikrishnan and  
M. N. Sheela

09.20 – 9.40 AM *Allium* biodiversity - **K.E.Lawande**, Anil Khar  
and A.Asha Devi

09.40 – 10.00 AM	Biodiversity of zingiberaceous spices and their conservation - <b>V.A.Parthasarathy</b> , B. Sasikumar and K. V. Saji
10.00 – 10.20 AM	Plant genetic resource management in vegetable crops - <b>Mathura Rai</b>
<b>10.20 – 10.40 AM</b>	<b>Tea Break</b>
10.40 – 11.00 AM	Biodiversity of Cocoa ( <i>Theobroma cacao</i> L.) and utilization - <b>D.Balasingha</b> and S. Elain Apshara
11.00 – 11.20 AM	Biodiversity of cashew, its conservation and utilization efforts - <b>M.Gangadhara Nayak</b> and M.Gopalakrishna Bhat
11.20 – 11.40 AM	Agro biodiversity conservation and its utilization of tropical tuber crops - <b>MN.Sheela</b> , S. Edison, Santha V. Pillai and C.S. Easwari Amma
11.40 – 12.00 Noon	Plant genetic resources management for arid horticulture crops - <b>Dhandar</b>
12.00 – 12.20 PM	Arecanut genetic resources and improvement. - <b>K.S.Ananda</b>
12.20 – 12.40 PM	Biodiversity of tropical fruits - <b>J.Suresh</b> , N. Kumar and S. Anbu
12.40 – 1.00 PM	Horticulture biodiversity in the NorthEastern India and its conservation - <b>K.A Pathak</b> , Kundan Kishore and D .S. Yadav
1.00 – 1.20 PM	Genetic diversity of <i>Capsicum</i> species in North East India - <b>R.Borgohain</b> and J. Devi
<b>1.30 – 2.30 PM</b>	<b>Lunch Break</b>

# TECHNICAL SESSION - IX

## IPR IN AGROBIODIVERSITY

Chairman : Dr. S.Prakash Tiwari

Date : 14.2.2006 AN

Co-Chairman : J.P.Mishra

Venue : Rajendra Chola Hall

Rapporteurs : Dr.R.Kalpanasastr  
Dr.K.S.Varaprasad

- 2.30 – 2.50 PM Paradigm shift in agri research and education as a response to new regulatory mechanism agrobiodiversity - **S.Prakash Tiwari**, R Kalpana Sastri and S. K. Soam
- 2.50– 3.10 PM International treaty on plant genetic resources for food and agriculture - **Anishetty N Murthi** and K S Varaprasad
- 3.10 – 3.30 PM Moving towards a crossover regime between conservation of traditional knowledge and IPR - **R .Kalpanasastr**, S K Soam and S P Tiwari
- 3.30 – 3.50 PM Tea Break**
- 3.50 – 4.10 PM IPR issues in the conservation and maintenance of biodiversity - **J.P.Misra**
- 4.10 – 4.30 PM Enabling farmers rights as edifice of biodiversity protection in India - **Vilas A Tonapi**, Ch. Ravinder Reddy, M. Elangovan, Venkatesh Bhat and N Seetharama
- 4.30 – 4.50 PM Protection of intellectual property and assets in agricultural research-novel tools and innovative portfolios - **M.Elangovan**, Vilas A. Tonapi and N. Seetharama
- 4.50 – 5.10 PM Sustainable use and conservation of agrobiodiversity through protecting as goods of geographical indication - **S.K. Soam**
- 5.10 – 5.30 PM IPR in biotechnology and traditional knowledge assets: Who Benefits? – **R.Bhanumathy**

- 5.30 – 5.50 PM Agrobiodiversity conservation: The need to look beyond science – **Yeshwant Shenoy**
- 5.50 – 6.10 PM IPR and biodiversity – **Resmi C Senan**
- 6.10 – 6.30 PM India's Policy on IPRs and Plant Genetic Resources – **Anitha Ramanna**
- 7.30 PM Dinner**

## TECHNICAL SESSION – X

### MICROBIAL DIVERSITY

**Chairman** : Prof S.Kannaiyan                      **Date** : 14.2.2006 FN

**Co-Chairman** : Prof D.J.Bagyaraj                      **Venue**: Zahoor Quasim Hall

**Rapporteurs** : **Dr.K.Kumar**  
**Dr.J.P.Tamang**

- 9.00 – 9.15 AM Microbial biodiversity of agriculturally important microorganisms and agricultural productivity - **Dilip K.Arora**
- 9.15 – 9.30 AM Microbial diversity - **Y.D. Gaur**
- 9.30 – 9.45 AM Microbial diversity in Ethnic fermented foods of the Eastern Himalayas - **J.P. Tamang**
- 9.45 – 10.00 AM Perils of biodiversity and algal niche - **L.V.Venkataraman**
- 10.00 – 10.15 AM Genetic diversity of Diazotrophs in rice ecosystem - **K.Kumar** and S. Kannaiyan
- 10.15 – 10.30 AM Tea Break**
- 10.30 – 10.45 AM Microbial diversity a boon in sustaining biosphere in the Ecosystem on the Earth - **H.N.Gour**, Saju Sharma, Data Ram Suman

10.45 – 11.00 AM	Genetic diversity among Bradyrhizobia : Soyabean Bradyrhizobia in particular - <b>K. Annapurna</b>
11.00 – 11.15 AM	Documenting fungal diversity - <b>N.D.Sharma</b>
11.15 – 11.30 AM	Studying microbial species richness: The molecular way - <b>R.P.Gupta</b> , Anu Kalia and ManikaBatra
11.30 – 11.45 AM	Mycorrhizal Biodiversity in tropical tuber crops - <b>V.P.Potty</b>
11.45– 12.00 Noon	Rhizobial Biofertilizers - <b>P.N.Raju</b>
12.00 – 12.15 PM	Diversity in cyanobacteria. - <b>G.Gopaldaswamy</b>
12.15 – 12.30 PM	Biodiversity of endophytic diazotrophs in sugarcane ( <i>Saccharum officinarum</i> .L) - <b>M.D. Sundaram</b>
12.30 – 12.45PM	Diversity in microflora occurring in rice – <b>K.Singaravadivel</b>
12.45 – 1.00 PM	Diversity of halophilic cyanobacteria from khazan rice paddies of Goa-India. – <b>I. Furtado</b>
<b>1.30 – 2.30 PM</b>	<b>Lunch Break</b>

## TECHNICAL SESSION - XI

### BIODIVERSITY OF HORTICULTURAL CROPS II (Medicinal Plants)

Chairman : Dr. K.V.Peter

Date : 14.2.2006 AN

Co-Chairman : Dr.M.Sanjappa

Venue : Zahoor Quasim Hall

Rapporteurs : Dr M. Anandaraj  
Dr.R.Panneerselvam



- 2.30 – 2.50 PM Medicinal flora in coconut plantations-  
Opportunities for enriching cropping system  
and conservation of diversity -**B.Augustine  
Jerard**, K. Samsudeen and R. Dhanapal
- 2.50 – 3.10 PM Agro-biodiversity of medicinal plants in India.-  
**R. Paneerselvam**, M. Gomathinayagam and  
G. M. Alagu Lakshmanan
- 3.10 – 3.30 PM Ethno-medicinally important plants of  
Mayurbhanj district of Orissa, India -  
**K. K. Behera** and K. C. Samal
- 3.30 – 3.50 PM Tea Break**
- 3.50 – 4.10 PM Diversity in medicinal plants strategies for  
conservation and cultivation - **K.Manivannan**
- 4.10 – 4.30 PM Biodiversity, domestication and therapeutic  
potentials of *Morinda* spp. - **G.Surandiran**,  
E. Sagadevan and N. Mathivanan
- 4.30 – 4.50 PM Diversity of medicinal plants and their conser-  
vation status in Satpura-Maikal forests -  
**Ruby Sharma**, P. K. Singhal and  
J.L.Shrivastav
- 4.50 – 5.10 PM Integrated management of pre and post  
harvest diseases of mango - **S.P.Raut** and  
A.D.Gawande
- 7.30 PM Dinner**

## TECHNICAL SESSION - XII

### SOIL BIODIVERSITY AND SOIL BIORESOURCES CONSERVATION

**Chairman** : Dr. K.V.Raman **Date** : 14.2.2006 AN  
**Co-Chairman** : Dr. T.Balaguru **Venue** : Varuna Hall  
**Rapporteurs** : **Dr. K.Natarajan**  
**Dr. S.Vadivelu**

2.30 – 2.50 PM	Human resources development in soil resource management - <b>T. Balaguru</b>
2.50 – 3.10 PM	Impact of soil biodiversity on soil health and sustainability - <b>K.Natarajan</b> , P. Stalin and B Chandrasekaran
3.10 – 3.30 PM	Integrated nutrient management for meeting challenges of food security and soil quality - <b>A.Subbarao</b> and D. Damodar Reddy
<b>3.30 – 3.50 PM</b>	<b>Tea Break</b>
3.50 – 4.10 PM	Impact of watershed development programme on land resource conservation and enhancing biodiversity in Karnataka - <b>S.C.Ramesh Kumar</b> , R. S. Reddy, L. G. K. Naidu, P. Krishnan and S. Vadivelu
4.10 – 4.30 PM	Radioactive contamination in the environment and bioaccumulation of radonuclides in crops - <b>A.Raja Rajan</b>
4.30 – 4.50 PM	Bioremediation and greening of backfilled areas of Neyveli opencast mines - <b>G.Kuppuswamy</b> , N.N. Prasad, B. Raghupathy and M. Deiveeka Sundaram and P.Karuppiyah
4.50 – 5.10 PM	Protection potential and economic analysis of sole and intercropped sugarcane as influenced nutrient management strategies – <b>T. R.Rupa</b> and V Sudhakar
5.10 – 5.30 PM	Biodiversity of salty lands and some issues related to their rehabilitation - <b>J C Dagar</b> and P. S Minhas
5.30 – 5.50 PM	Productivity and soil fertility of pigeon pea under organic farming in vertisols - <b>N.R.Panwar</b> , P. Ramesh, S. Ramana and A. B. Singh

5.50 – 6.10 PM Phosphorus distribution in coconut basin under drip fertigation - **P.Subramanian**, R.Dhanapal, C.Palaniswami, A.Updhyay, A.C.Mathew and D.V.S.Reddy.

**7.30PM Dinner**

## **TECHNICAL SESSION - XIII**

### **AGROBIODIVERSITY AND CLIMATE CHANGE**

**Chairman : Dr. M.Velayutham Date : 15.2.2006 FN**

**Co-Chairman : Dr T.Balasubramanian Venue : Committee Room/  
Training Hall**

**Rapporteurs : Dr.V.Arivudai Nambi  
Dr. J.C.Rana**

9.00 – 9.20 AM Agrobiodiversity in Western Himalayan region of India: Current scenario - **J.C Rana and K. Pradeep**

9.20 – 9.40 AM Agrobiodiversity in the food crops of North Western Himalayas. - **H.S.Gupta and Arun Gupta.**

9.40 – 10.00 AM Eastern Ghats floristic wealth with special reference to Agro biodiversity . - **K.S. Varaprasad and N. Sivaraj**

10.00 – 10.20 AM The centres of Agrobiodiversity in India with reference to Warm Spots. - **M.P. Nayar**

**10.20 – 10.40 AM Tea Break**

10.40 – 11.00 AM Oil palm as an efficient carbon link in the coastal agro – ecosystem - **M.Kochu Babu**

11.00 – 11.20 AM Geographical indications Vs. Agrobiodiversity: The Indian Scenario - **G. K. Muthukumar**

- 11.20 – 11.40 AM Impact of high voltage(High Tension) power transmission lines on Agrobiodiversity. - **S. Somasekaran** , N, Siva, G. Ramesh and K. Muthuchelian
- 11.40 – 12.00 Noon Plant genetic resources of Southern Western Ghats and their conservation. - **Z .Abraham**, K. I .Asha and M. Latha
- 12.00 – 12.20 PM Diversity of crop plants from Western Ghats of Maharashtra – **N.D.Jambhale** and D.N.Mokat
- 1.30 – 2.30 PM Lunch Break**

## **TECHNICAL SESSION - XIV**

### **PLANT BIORESOURCES AND CONSERVATION**

**Chairman : Dr. Paul Khurana**

**Date : 15.2.2006 FN**

**Co-Chairman : Dr. T.S. Raveendran**

**Venue : Zahoor Quasim Hall**

**Rapporteurs : Dr. Z.Abraham  
Dr. Philomena George**

- 9.00 – 9.20 AM Barcode of life: Emerging technology for discovery conservation and management of biodiversity - **D. Chandramohan**
- 9.20 – 9.40 AM Agro biodiversity of aquatic macrophytes of makhana culture ponds and their ecological assessment - **Janardan Jee** and Baidyanath Kumar
- 9.40 – 10.00 AM Eastern ghats floristic wealth with special reference to agrobiodiversity - **K.S. Varaprasad** and N. Sivaraj
- 10.00 – 10.20 AM Collection and conservation of fruit crops from parts of Aravalli Ranges in Rajasthan and Gujarath - **S.Gopalakrishnan** , N.K.Drivedi and Neelam Bhatnagar

<b>10.20 – 10.40 AM</b>	<b>Tea Break</b>
10.40 – 11.00 AM	Conservation of agrobiodiversity in arid and semiarid region of Western India - <b>N.K. Dwivedi</b> , Neelam Bhatnagar and S.Gopalakrishnan
11.00 – 11.20 AM	Exploitation of plant bioresources for meeting evergreen revolution challenges - <b>KA Nayeem</b>
11.20 – 11.40 AM	<i>Ex-situ</i> germination of pricked and unpricked seeds of makhana ( <i>Euryale ferox</i> Salisb)-an endangered species - <b>BalKrishna Jha</b> , Janardan Jee and Baidhyanath Kumar
11.40 – 12.00 Noon	Plant biotechnology – a tool for biodiversity conservation - <b>Philomena George</b> and Jeyanthi Rebecca
12.00 – 12.20 PM	Plant genetic resources of Southern Western Ghats and their Conservation - Z. <b>Abraham</b> and K.I. Asha and M. Latha
12.20 – 12.40 PM	Lac research in India – <b>Bangali Baboo</b>
12.40 – 1.00 PM	<i>Ex-situ</i> conservation of sugarcane genetic resources - <b>A. William Jebadhas</b> , V.A.Amalraj and N.Vijayan Nair
1.00 – 1.20 PM	Paddy post production systems - <b>A.Dhankshinamoorthy</b>
<b>1.30 – 2.30 PM</b>	<b>Lunch Break</b>
2.30 – 2.50 PM	Plant biodiversity in Eastern Utter Pradesh – <b>T.B.Singh</b>
2.50 – 3.10 PM	Diversity of Jute and Mesta and their collection with special reference to India – <b>A.K.Mahapatra</b> and A.Bandopadhyay

## TECHNICAL SESSION - XV

### AGRICULTURAL BIOTECHNOLOGY AND BIOSAFETY

Chairman : Prof K.R. Koundal

Date : 15.2.2006 FN

Co-Chairman: Dr. Usha Zher

Venue : Rajendra Chola Hall

Rapporteurs : Dr. A.Manickam

Dr. M.Unnikrishnan

- 9.00 – 9.15 AM Biosafety and risk assessment issues related to transgenic development and commercialization. - **K.R.Koundal**
- 9.15 – 9.30 AM Application of Biotechnology in conservation and utilization of Plant Biodiversity. - **Harcharan S.Dhaliwal**
- 9.30 – 9.45 AM The Phylogenic relationship, Genetic diversity and Biotechnological Developments in *Vigna* spp.- **A.Manickam** and P.Sivakumar
- 9.45 – 10.00 AM Begomovirus diversity among crop plants in India. - **K.S.Ravi**, G M Ravi, K Meera, Lalit Mahatma and Usha Zehr
- 10.00 – 10.15 AM Genetic engineering and genetic diversity studies in Sorghum. – **S. Krishnaveni**
- 10.15 – 10.30 AM Molecular variability characterization of some species of *Alternaria* causing leaf blights in important commercial cash crops. - **R.L.Chavhan**, B.P. Kadam, P.K. Chakraborty, F.S. Patil, H.B.Patil and U.G. Kulkarni
- 10.30 – 10.45 AM Tea Break**
- 10.45 – 11.00 AM *In plant* transformation of rice using a synthetic antifungal protein (Afp) gene from *Aspergillus giganteous*. - **K.Lenin**, B. Power and M R Davey

- 11.00 – 11.15 AM Sequence analysis of banana streak virus infecting banana cv Ardhapur. - **B A Aglave**, F S Patil, U G Kulkarni and H B Patil.
- 11.15 – 11.30 AM DNA Markers in genetic analysis and genotyping mushrooms.- **Mahesh C. Yadav**
- 11.30 – 11.45 AM Grape: Molecular markers for better management of germplasm.- **Anuradha Upadhyay**
- 11.45 – 12.00 Noon Molecular techniques as useful tools in the protection and conservation of community varieties and Agrobiodiversity. - **R.Madhusudhana**, Vilas A. Tonapi, D. Balakrishna, B. Venkatesh Bhat, A V Umakanth and N. Seetharama
- 12.00 – 12.15 PM Genetic and molecular diversity in rice (*Oryza sativa* L). - R Parimalan , A. John Joel and **T S Raveendran**
- 12.15 – 12:30 PM *In vitro* studies and conservation of tropical tuber crops. - **M.Unnikrishnan**, M. N. Sheela, T. Sreeja and V. Asha
- 12:30 – 12:45 PM *Sorghum* molecular tools for biodiversity assessment and gene discovery - **S. Sivaramkrishnan** and R. Kamala.
- 1.30 – 2.30 PM Lunch Break**

## TECHNICAL SESSION - XVI

### DIVERSITY IN PESTS AND CONSERVATION OF NATURAL ENEMIES - I

Chairman : Prof. T.N.Ananthakrishnan      Date : 15.2.2006 FN  
 Co-Chairman: Dr. J.R.B.Alfred              Venue : Varuna Hall  
 Rapporteurs : Dr. S.Suresh  
                   Dr. K.Ramaraju

9.00 – 9.15 AM	Role of insects and their taxonomy in agrobiodiversity- retrospect and prospects – <b>V.V.Ramamurthy</b>
9.15 – 9.30 AM	Dimensions of biodiversity in Whiteflies (Aleyrodidae:Hemiptera) - <b>R.W.Alexander Jesudasan</b>
9.30 – 9.45 AM	Insect Biodiversity - <b>RM Nachiappan</b> and V. Selvanarayanan
9.45 – 10.00 AM	Coccids diversity in India - <b>S.Suresh</b>
10.00 – 10.15 AM	Biodiversity of Phytophagous mites in India - <b>K.Ramaraju</b>
10.15 – 10.30 AM	Diversity in entomopathogenic nematodes - <b>S.S.Hussaini</b> , V. Shakeela and Manzoor Husain Dar
<b>10.30 – 10.45 AM</b>	<b>Tea Break</b>
10.45 – 11.00 AM	Diversity in nematodes - <b>M.Sivakumar</b> , M.P. Mani and R. Umamaheswari
11.00 - 11.15 AM	Biodiversity of plant parasitic nematodes associated with banana in India - <b>P.Sundarraju</b>
11.15 – 11.30 AM	Diversity of parasitic nematodes and their antagonists in spices - <b>Santhosh J.Eapen</b>
11.30 – 11.45 AM	Exploitation of Biodiversity in Biological control in India – <b>R.J.Rabindra</b> , S.Jalali, B.Ramanujam, M.Nagesh and S.Sriram
<b>1.30 – 2.30 PM</b>	<b>Lunch Break</b>



## TECHNICAL SESSION - XVII

### DIVERSITY IN PESTS AND CONSERVATION OF NATURAL ENEMIES - II

Chairman : Dr. A.Abdul Kareem Date : 15.2.2006 FN

Co-Chairman : Dr. Vasantharaj David Venue : Varuna Hall

Rapporteurs : Dr. S.Devasahayam  
Dr. K.Samiayyan

11.45 – 12.00 Noon Arthropod biodiversity characterisation, conservation and Utilisation: Scope for National networking in Egg Parasitoids – **S. Sithanantham**, Jalali S.K., Rajmohan K., Swamiappan M., Manickavasagam G., and Selvaraj P

12.00 – 12.15 PM Biodiversity of green lacewing: A potential predator in the management of pest of crops in India **M.Swamiappan**, V. Balasubramani, B. Geetha, D. Mohana and H.L. Chandrakumar

12.15 – 12.30 PM Plant and insect diversity patterns in cardamom plantations Vis-A-Vis natural forests: An assessment in the Nelliampathy hills, Kerala, India - **George Mathew**

12.30 – 12.45 PM Biodiversity of mosquitoes breeding in rice fields and their nematode and fungal parasites **K. Balaraman**, A. M. Manonmani and K.P. Paily

12.45 – 1.00 PM Insect biodiversity in Karaikal Region of the Coastal Agro Ecosystem - **L. Nadarajan**

1.00 – 1.15 PM Spider Biodiversity in rice ecosystem of Cauvery Delta, Tamilnadu- **K.Samiayyan**

1.15 – 1.30 PM Biodiversity of natural enemies of insect pests of spices crops - **S.Devasahayam**

**1.30 – 2.30 PM**

**Lunch Break**

2.30 – 2.45 PM

Diversity and role of neem in sustainable agriculture as biopesticide - **S.Raguraman** and M. Swamiappan

2.45 - 3.00 PM

Biodiversity of woolly aphid and natural enemies in Sugarcane Ecosystem in Tamilnadu - **A.Thirumurugan**, T. L. Baskaran and K. Koodalingam

## POSTER SESSION

Convener : Dr. M. Subramanian Date : 12.2.2006

Co-Convener : Dr. M. Swamiappan

### DIVERSITY IN PESTS AND CONSERVATION OF NATURAL ENEMIES - II

SSB I Biodiversity in plant fossils of Cuddalore Sandstone series -  
**D. Kumarasamy** and V. Gurusamy

### AGRO BIODIVERSITY AND CLIMATE CHANGE

ACC I Impact of elevated Co<sub>2</sub>, ozone and global climate change on agroecosystems -**M. Prabhu Inbaraj** and K. Muthuchelian

ACC II The Influence of microclimate on the biodiversity of crop -  
**R. Mallika** and K. Muthuchelian

ACC III Studies on wild edible plants in the simlipal bio-reserve of Orissa - **K.C. Samal** and K K Behera

### MICROBIAL DIVERSITY

MD I Biodiversity of AM-Fungi in coastal soils of Tamilnadu in selected crops - **P. Tholkappian** and K. Muthuselvam

MD II Biodiversity and biocontrol potential of marine Actinomycetes - **S. Ramesh, M. Jayaprakash**, Sakthi and N. Mathivanan

MD III Diversity of plant associated rhizobacteria in the acidic soils of plantation crops - **M. Jayaprakashvel**, S. Ramesh and N. Mathivanan

MD IV Biodiversity and antifungal activity of South Indian Soil Actinomycetes - **K. Malarvizhi** and N. Mathivanan

- MD V Genetic diversity of Rhizobium - **D. Balachandar** and S. Kannaiyan
- MD VI Analysis of bacterial diversity in Gundaru Basin, Madurai District, Tamil Nadu. **R. Ganesan** and K. Muthuchelian
- MD VII Diversity in microbial system in hill area crops - **G. Selvakumar**, S. Kundu and H.S. Gupta
- MD VIII Microbial biodiversity and the management of sugar and distillery wastes - **R. Elango** and M. Deiveekasundaram
- MD IX Microbial diversity of some medicinal plants - **B. Karthikeyan** and M. Deiveekasundaram
- MD X Identification of Blue Green Algae for irrigated garden and land crops - **M. Gnanachitra** and S. Antony Raj
- MD XI Rhizosphere environment : Scope and potential for sustainability - R. Mohan, L. Aruna, **S. Sundaravathan** and S. Kannaiyan

## **PLANT GENETIC RESOURCES I**

### **(Rice, Wheat, Oil Seeds)**

- PGR I 1. Differential expression of thermo sensitive genetic male sterile genes in rice (*Oryzasativa L*) - **R. Kalaiyarasi** and P. Vaidyanathan
- PGR I 2. Diversity analysis of male sterile lines for developing three line hybrids in Rice - **Asish K. Binodh**, R. Kalaiyarasi and K. Thiyagarajan
- PGR I 3. The Biodiversity erosion of the traditional landraces of paddy in coastal villages of Nagapattinam District, Tamil Nadu and its socio-economic and agronomic implications - **P. Thamizoli**, R. Rengalakshmi, R. Senthilkumar and T. Selvaraju
- PGR I 4. Genetic biodiversity and its exploitation in coconut improvement - **K. Ganesamurthy**, C. Natarajan and M. Jayaramachandran

## **PLANT GENETIC RESOURCES II (Sugarcane, Cotton and Millets)**

- PGR II 1. Genetic diversity for seedling traits conferring drought tolerance in pearl millet - **S. Arul Selvi**, B. Selvi and P. Sumathi
- PGR II 2. Evaluation of B-Carotene content of proso millet (*Panicum miliaceum L.*) in core Germplasm and Heir Association with yield - **A. Nirmalakumari**, N. Senthil, B. Selvi and T. S. Raveendran
- PGR II 3. Collection and Characterization of Indian Sorghum landraces - **M. Elangovan** and Vilas A Tonapi
- PGR II 4. Production Potential and Economic Analysis of Sole and Intercropped Sugarcane as Influenced by Nutrient Management Strategies - **T.R. Rupa** and V. Sudhahar

## **PLANT BIORESOURCES AND CONSERVATION**

- PBC I 1. Strategies for *in-situ* on-farm conservation of littlemillet (*Panicum sumatrense* Roth ex Roemer & Schultes) landraces in Kolli Hills, South India - **R. Rengalakshmi** and M.S. Swaminathan

## **BIODIVERSITY OF HORTICULTURAL CROPS (Fruits, Vegetables, Spices and Plantation Crops)**

- BHC I Genetic diversity In Jackfruit - **R. Selvi**, J. Suresh, N. Kumar and S. Anbu
- BHC II Genetic variability in Tamanind - **S.T. Bini Sundar**, J. Suresh and S. Anbu

## **BIODIVERSITY OF HORTICULTURAL CROPS II (Medicinal Plants)**

- BHC II 1 Studies on medico-ethno botanical plants in Sathuragiri Hills of Western Ghats, Tamil Nadu - **N. Siva** and K. Muthuchelian

- BHC II 2 Biodiversity and Conservation of Medicinal Plants in Suruli Hills, Southern West Ghats, Tamil Nadu - **G. Ramesh** and K. Muthuchelian
- BHC II 3 Increasing the self life of cucumber by modified atmospheric packaging and vacuum packaging - **S. Kannan** and C. Muralidharan

## **AGRICULTURAL BIOTECHNOLOGY AND BIOSAFETY**

- ABB I In-vitro Propagation in banana, an optimized protocol - **U.G. Kulkarni**, H.B. Patil and F.S. Patil

## **DIVERSITY OF PHYTOPATHOGENS AND CONSERVATION OF EDIBLE MUSHROOMS**

- DPC I Antibacterial activity of ethanolic flower extract of Calotropis sp - **R.M. Ganesan** and K. Muthuchelian
- DPC II Conservation and domestication of economically important mushrooms of Western Ghats of Karnataka - **Meera Pandey** and S.S. Veena
- DPC III Biodiversity of fluorescent pseudomonads in the rice rhizosphere and their antifungal and growth promoting activities - **V. Shanmugaiah** and N. Mathivanan

## **DIVERSITY IN PESTS AND CONSERVATION OF NATURAL ENEMIES**

- DPCN I Diversity in the beneficial fauna and flora of arthropods of Areca-Cocoa ecosystem - **Mariamma Daniel** and N. Saraswathy
- DPCN II Diversity of rice leaf folder species complex and their natural enemies - **W. Baby Rani** and B. Usha Rani
- DPCN III Biodiversity of fruit piercing moths - **J. Ramkumar**, M. Swamiappan, S. Raguraman and A. Sadasakthi

- DPCN IV Biodiversity of Coccinellids in rice pulses and vegetable ecosystems in Southern Tamil Nadu - **B.S. Rekha**, M. Swamiappan, S. Raguraman and M. Kandibane
- DPCN V Study on biodiversity of arthropods and microbial population in IPM and Non-IPM adopted rice fields of Union Territory of Pondicherry - **A. Pouchepparadjou**, S. Sundaravarathan, and D. Adiroubane
- DPCN VI Diversity of rice insect pests and their natural enemies - **K. Usharani**, M. Rajendran, R. Swamiappan and K. Suresh

## **SOCIAL INTERVENTION AND CONSERVATIONS**

- SIC I Multilevel training cafeteria for developing awareness on agricultural biodiversity - **P.V.R.M. Reddy**, A. Gopalam and T. Madhavi
- SIC II Post-participatory improvement of Natural resources : An impact Analysis - **A.K. Panda**, Smith Mishra, G. Shanthi, V. Arivudai Nambi and V. Arunachalam

## **POLICY ISSUES IN AGROBIODIVERSITY**

- PIA I Methodological Approach for networking of databases for agricultural biodiversity in Indian context - **T. Madhavi**, A. Gopalam and P.V.R.M. Reddy

## **TECHNICAL SESSION**

### **SPECIAL SESSION ON POLICY ISSUES IN AGROBIODIVERSITY**

**Date : 14.02.2006**

**Time : 10.30 AM**

**Venue : Varuna Hall**

**CHAIRMAN : Prof. M.S. Swaminathan**

**Invitees : All the Chairpersons of the Technical Sessions :**

1. Dr. Kirti Singh
2. Prof. S. Kannaiyan
3. Dr. M. Mahadevappa
4. Dr. S. Nagarajan
5. Dr. E.A. Siddiq
6. Prof. K. Pradhan
7. Dr. R.P. Singh
8. Dr. K.V. Raman
9. Dr. Yusuf Kamal
10. Dr. Prakash Tiwari
11. Dr. K.V. Peter
12. Dr. M. Velayutham
13. Prof. T.N. Ananthakrishnan
14. Dr. A.K. Ghosh
15. Dr. A. Abdulkareem
16. Dr. Y.S. Nerker
17. Dr. Paul Khurana
18. Prof. K.R. Koundal