



10th NABS-National Conference

Theme

Recent trends in Life Science: Research, Practices and Application for Sustainable Development

Series No. 10

General Particulars

Date : 07 & 08 September, 2017

Venue : Dr. Usha Kirtilal Mehta Convention Centre, Bharathiar University, Coimbatore

The tenth NABS-National Conference on “*Recent trends in Life Science: Research, Practices and Application for Sustainable Development*” was organized in collaboration with Departments of Botany and Zoology, Bharathiar University, Coimbatore for two days from 7 to 8 September 2017 at Dr. Usha Kirtilal Mehta Convention Centre, Bharathiar University, Coimbatore.

Chief Patron : Prof. M.S. Swaminathan
Founder Chairman
M.S. Swaminathan Research Foundation, 3rd Cross Street, Institutional Area, Taramani, Chennai

Patron : Prof. Dr. A. Ganapathi
Vice Chancellor
Bharathiar University, Coimbatore, Tamil Nadu

Conveners

Dr. A. Rajendran : Dr. M. Ramesh
Professor & Head, Department of Botany, Bharathiar University, Coimbatore : *Professor & Head i/c, Department of Zoology, Bharathiar University, Coimbatore*

Organizing Secretaries

Dr. P. Ponmurugan : Dr. Dr. V. Ramasubramanian
Associate Professor, Department of Botany, Bharathiar University, Coimbatore : *Associate Professor, Department of Zoology, Bharathiar University, Coimbatore*

Inaugural function

- Presided over; released the Proceedings of the 10th National Conference; delivered presidential address : Dr. A. Ganapathy
Vice Chancellor, Bharathiar University, Coimbatore
- Chief Guest released “ANIMALIA” and Phytospectrum; conferred “Prof. SK. Memorial Award” on Prof. K. Muthuchelian; delivered inaugural address : Dr. K. Murugan
Vice Chancellor, Thiruvalluvar University, Vellore
- Conferred “Dr.APJ Abdul Kalam Memorial NABS-Life Time Achievement Award” on Prof. N. Anand : Prof. R.R. Hanchinal
Former Chairperson, PPV & FRA, GoI, New Delhi
- Felicitation & Special address : Dr. Shilpi Paul
Member-Secretary, Science and Engineering Research Board, New Delhi
- Prof. S. Kannaiyan Memorial Oration : Dr. V. A. Parthasarathy
President, NABS
- Prof. K. Muthuchelian
Former Vice Chancellor, Periyar University, Salem & Professor & Chair School of Energy, Environment and Natural Resources Madurai Kamaraj University, Madurai
- Topic : Nanovectors and Drug delivery Systems in Cancer Therapy

Valedictory function

- Presided over; released a book authored by Dr. Renu Agrawal- “Probiotics and their role in improving Human Health” and felicitated : Prof. R.R. Hanchinal
Former Chairperson, PPV & FRA, GoI, New Delhi
- Valedictory Address by Chief Guest & conferment of “Carl Linnaeus and Prof. MS. Swaminathan Award” : Prof. K. Ramaswamy,
Vice Chancellor, Tamil Nadu Agricultural University, Coimbatore
- Felicitation & Special address : Dr. V. A. Parthasarathy
President, NABS

Presentation of Summary : Dr. P. Ponmurugan,
Proceedings Organizing Secretary of 10th NABS-National
Conference

Technical Sessions

Lead Lectures

Chairman : Dr. V. A. Parthasarathy
President, National Academy of Biological Sciences

Co-Chair : Dr. S. Nakkeeran
*Professor, Department of Plant Pathology, TNAU & EC Member
of NABS*

In all four Lead lectures were presented

- i. Mechanism of bacterial endophytism in plants: Elucidation by expression analysis of *Arabidopsis-Pseudomonas putida*BP25 transcriptome-
Dr. A. Kumar, Principal Scientist, Indian Agricultural Research Institute, New Delhi
- ii. Medicinal plants: Phytoconstituents under variable phytogeographical conditions- *Dr. Shilpi Paul, Member Secretary, Science and Engineering Research Board, New Delhi*
- iii.** *Dr. Sanjeeva Nayaka, Principal Scientist, National Botanical Research Institute, Lucknow*
- iv. Biotechnological Innovation in Developing Diagnostics for Animal Enteric Viral Infections- *Dr. Yashpal S. Malik, Principal Scientist, Indian Veterinary Research Institute, Lucknow.*

Carl Linnaeus and Prof. M.S. Swaminathan Awards
[Students' Award Competition (Ph.D. & M.Sc.)]

Judging Panel

Chairman	:	Dr. M. Subramanian Former Director of Research, TNAU, Coimbatore
Co-Chairman	:	Dr. K. Natarajan Former Professor of Soil Science & Agricultural Chemistry, Tamil Nadu Agricultural University, Coimbatore
Members	:	Dr. N. Mathivanan Director, CAS in Botany, University of Madras, Chennai Dr. Renu Agrawal Former Chief Scientist and Rural Development Coordinator, CSIR-CFTRI, Mysore.

Dr. A. Kumar
Principal Scientist, IARI, New Delhi.

Dr. S. ThyagaRajan
Prof. & Head, Department of Biotechnology,
SRM University, TN

Papers presented for Carl Linnaeus Award Competition (For Ph.D. scholars)

Veerasha, B.A., *University of Agricultural Sciences, Karnataka)*

The study of expression of morpho-physiological and quality traits under drought stress in bread wheat

Suganya, M., *Department of Biotechnology, K. S. Rangasamy College of Technology, Tiruchengode)*

Synergistic anticancer effect of Genistein and Doxorubicin in Lung adeno carcinoma cells

Rageshwari, S., *Department of Plant Pathology, TNAU, Coimbatore)*

Dac-Elisa and RT-PCR based confirmation of systemic and latent infection by Tobacco streak virus in Cotton and Parthenium

Parthiban, M., *Department of Botany, Bharathiar University, Coimbatore*

New distributional novelties of Phytodiversity in Southern Western and Eastern Ghats of India

Vineetha, R.C., *Physiology Research Laboratory, School of Biosciences, Mahatma Gandhi University, Kottayam - 686 560, Kerala, India.*

L-Ascorbic acid and α -Tocopherol reduces arsenic trioxide induced toxicity via modulation of Nrf2 and Bcl2 transcription factors in Chang liver cells

Anuroopa, N., *PRIST University, Thanjavur, Tamil Nadu*

Inoculation with selected microbial consortia not only enhances growth and yield of *Withania somnifera* but also reduces fertilizer application by 25% under field conditions,.

Papers presented for Prof. MS Swaminathan Award competition (for M.Sc. Scholars)*

Kuleshwar, PS., *Indian Agricultural Research Institute, New Delhi*

Metagenomic analysis of rice phyllospheric microbiome in relation to blast disease,

** No award completion held but allowed to present his paper as a special case.*

Oral Presentations

In all four technical sessions were held. (i) Biomedical and Pharmaceutical Sciences; (ii) Biotechnology and Nanotechnology; (iii) Environmental Sciences & (iv) Plant and Animal Sciences.

Technical Session- I : Biomedical & Pharmaceutical Sciences

Chairman : Dr.V. R. Prabavathy
M. S. Swaminathan, Research Foundation, Chennai

Co-Chair : Dr. N. Thajuddin
*Department of Microbiology, Bharathidasan University,
Tiruchirappalli*

No. of oral Presentations : 10

Technical Session-II: Biotechnology and Nanotechnology

Chairman : Dr. G. Archunan
*Department of Animal Sciences, Bharathidasan University,
Tiruchirappalli*

Co-Chair : Dr. J. Phillip Robinson
*Department of Biotechnology, K.S.R College of Technology,
Tiruchengode, Tamil Nadu*

No. of oral Presentations : 13

Technical Session-III: Environmental Sciences

Chairman : Dr. S. Kannan
Department of Zoology, Periyar University, Salem

Co-Chairman : Dr. Edathil Vijayan
Department of Biotechnology, Cochin University, Kerala

No. of oral Presentations : 16

Technical Session-IV: Plant Animal Science

Chairman : Dr. Sanjeeva Nayaka
*Division of Lichenology, National Botanical Research
Institute, Lucknow*

Co-Chairman : Dr. M. Nalini,
*PG & Research Dept. of Zoology, Poompuhar College,
Melaiyur, Tamil Nadu.*

No. of oral Presentations : 5

Best Oral Presentation Award

First Prize

- Ms. Princy Selvakumar, Bharathiar University, Coimbatore

Best Poster Presentation Award

First Prize

- Ms. Lavanya Ramachandran, Bharathidasan University

Second Prize

- Mr. G. Varatharaju, Madurai Kamaraj University
- Ms. Remya Krishnan, SNM College, Palghat, Kerala
- Ms. Nithya Madhanan, SNM College, Palghat, Kerala

Carl Linnaeus and Prof. M.S. Swaminathan Award (Exclusively for Students)

The awards / Appreciation certificate were presented by the Chief Guest, Dr. K. Ramasamy, Vice Chancellor, TNAU during the Valedictory function of the conference

Carl Linnaeus Award for Ph.D. Student (shared by two students)

- Ms. S. Rajeshwari
Department of Plant Pathology, TNAU, Coimbatore, Tamil Nadu
- Ms. M. Suganya
Department of Biotechnology, KSR College of Technology, Tiruchengode, Tamil Nadu

Prof. M.S. Swaminathan Award for M.Sc. Student

Appreciation Award

- Mr. Kuleshwar Prasad Sahu
Department of Zoology, Yogi Vemana University, Kadapa, AP.