Science Academies’ Lecture Workshop on New Frontiers in Plant Sciences and Biotechnology

03rd -5th March, 2016

Organized by

Department of Botany
Nehru Memorial College (Autonomous)
Puthanampatti, Tiruchirappalli-621 007
Tamil Nadu

Report of the Workshop

A three day Lecture Workshop was organized by the Department of Biotechnology, Nehru Memorial College (Autonomous), Puthanamappiti, Tiruchirappalli on the topic entitled as “New Frontiers in Plant Sciences and Biotechnology” on March 3rd to 5th 2016. This workshop was sponsored and supported by the Indian Academy of Science, Bangalore, Indian National Science Academy, New Delhi and National Academy of Sciences, Allahabad with a financial grant of Rs 1. 85, 250/-

The Main notion of the “Lecture Workshop” is widen the scientific ideas to explore in research there by familiarizing the faculties, active researchers and research aspirants about the New Frontiers in Plant Sciences and Biotechnology. The three day programme consisted of 12 lectures, the invited speakers were eminent professors from various institutions.

I am proud to say that Department of Botany, Nehru Memorial College (Autonomous), had a chance to conduct the lecture workshop programme for young graduate students and it is to note that the overwhelming response from 159 students across the various colleges and University includes.

- Bharathidasan University, Trichy
- Ayya Nadar Janaki Ammal College, Sivakasi
- Jamal Mohamed College, Trichy
- Sri Mad Andavan Arts and Science college, Trichy
- Rajah Serfojji Govt College, Sivakasi
• Thiagarajar College of Arts and Science, Madurai
• Cauvery College for women, Trichy
• Thanthai Hans Roever College, Perambalur
• A.V.V.M.Sri Puspham College, Poondi, Thanjavur
• Kunthavi Nacchiyar Govt College, Thanjavur
• Maruthu Pandiar College, Thanjavur
• Madura College, Madurai
• Periyar University, Salem
• Bharath College of arts and Science Management, Thanjavur
• Sourastra College, Madurai

Day I: **Mar 3, 2016:**

Day one session began with a prayer song. Dr. T. Jayaprakasam, Principal, Nehru Memorial College, Puthanampatti, Tiruchirappalli addressed the gathering. Prof. M. Ponnambalam, Chairman, Governing Body, Nehru Memorial College Committee & Er. Pon. Balasubramanian, President, Nehru Memorial College, Committee, Puthanampatti offered felicitation. Prof. T.J. Pandian, Bhatnagar Awardee & National Professor (ICAR), Madurai Kamaraj University, rendered the about the Inaugural address.

It was continued by Technical Session 1

This session was presented by **Prof. T.J. Pandian,** Bhatnagar Awardee & National Professor (ICAR), Madurai Kamaraj University, he delivered lecture on the **"Stem cells and Germ cells"** in which he has highlighted few interesting research on Stem cells.

**Prof. T.J. Pandian,** was continued by **Technical Session 2** on the topic of **“Aptitude for Research and Entrepreneurship”**

After the Lunch break,

It was continued by **Technical session 3**

A lecture was given by **Prof. R.M. Pitchappan,** Director-Research, Chettinadu Academy of Research & Education, Chennai, on the topic **“Man, Microbes and Diseases- a Lotus and cactus model”**
Prof. Prof. R.M.Pitchappan, was continued by Technical Session 4 on the topic “Aquaphoncis, Hydrophonics & organic farming a tool for sustainable future and entrepreneurship for Plant biologist and Biotechnologist ”

Day 2: Mar 4, 2016:
The technical sessions of the second day of the workshop was continued by two resource persons, namely Dr. R.Sathishkumar, Associate Professor, Dept of Biotechnology, Bharathiar University, Coimbatore and Dr.R.Rao, INSA Honorary Scientist & Director (Rtd), Central Institute of Medicinal and Aromatic Plants, Banglore.

On the day 2, the Technical session 5 was presented by Dr. R.Sathishkumar, Associate Professor, Dept of Biotechnology, Bharathiar University, Coimbatore on the topic “Plant Metabolic Engineering for Biofortification”.

After the Lunch break

The next Technical session 6 on was held by Dr.R. Rao, INSA Honorary Scientist & Director (Rtd), Central Institute of Medicinal and Aromatic Plants, Banglore, who lecture on the topic Medicinal Plants of India- concerns and strategies.

The Next Technical session 7 was done by Dr. R.Sathishkumar, Associate Professor, Dept of Biotechnology, Bharathiar University, Coimbatore on the topic “Plant DNA Barcoding for Authentication”

The next Technical session 8 on was held by Dr.R. Rao, INSA Honorary Scientist & Director (Rtd), Central Institute of Medicinal and Aromatic Plants, Banglore, who lecture on the topic “Conservation and Utilization of wild edible plants of India”

Day-3: Mar 5, 2016:
The technical sessions of the third day of the workshop was continued by two resource persons, namely Dr. M.Krishnan, Professor & Syndicate Member, Dept of Environmental Biotechnology, Bharathidasn University, Tiruchirappalli
and **Dr. G. Arunkumar**, Assistant Professor, School of chemical & Biotechnology, SASTRA University, Thanjavur.

**The Technical session 9** was given by **Dr. G. Arunkumar**, Assistant Professor, Dept of chemical and Biotechnology, SASTRA University, Thanjavur on the topic **"Advanced Genomic Techniques"**.

The next **Technical session 10** on was held by **Dr. M. Krishnan**, Professor & Syndicate Member, Dept of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, who lecture on the topic **"Introduction to Proteomics"**.

**The Technical session 11** was given by **Dr. G. Arunkumar**, Assistant Professor, Dept of chemical and Biotechnology, SASTRA University, Thanjavur on the topic **"Next generation Sequencing Technology"**.

The next **Technical session 12** on was held by **Dr. M. Krishnan**, Professor & Syndicate Member, Dept of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, who lecture on the topic **"Proteomics – A tool for drug design"**.

The valediction started with the welcome address which was addressed by **Dr. T. Jayapraksam**, Principal, Nehru Memorial College.

The Report of seminar was conveyed by **Dr. M. Meenakshisundaram**, Assistant professor & Head, Dept of Botany, who was the coordinator of this lecture workshop.

A Presidential address and Valedictory address was given by **Er. Pon. Balasubramanian**, President, Nehru Memorial College.

The Vote of thanks was conveyed by **Dr. M. Meenakshisundaram**, Assistant Professor & Head, Dept of Botany, Nehru Memorial College.

The lecture workshop was wind up with the National Anthem.