

Report on the organization of a 2-day Lecture Workshop on Biotechnology, held  
at Sri Kaliswari College, Sivakasi (4-5 February 2011)

Indian Academy of Sciences, Bangalore; Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad jointly supports 2-day Lecture Workshop on various disciplines of science. The Department of Biotechnology, Sri Kaliswari College, Sivakasi conducted a workshop during 4-5 February 2011. Undergraduate and postgraduate students who study Biotechnology, Biochemistry, Microbiology, Zoology, and Botany from 17 colleges participated in this program. A total of 127 students have participated, apart from 12 faculty members and 27 research scholars.

The program started with a short formal inaugural function in the presence of the College Secretary, Mr.A.P.Selvarajan. Dr. R. Narayanapraksh, Director, Dept. of Biotechnology, welcomed the gathering. Dr. G. Marimuthu, Convener of this Workshop introduced the programme to the participants. The Principal of the college Dr. (Mrs.) S. Kanmani delivered presidential address. Mr. S. Saravanan, Coordinator of this Workshop proposed vote of thanks.

The lecture programme contained 8 technical sessions, in which eight scientists delivered lectures on various areas in biology and biotechnology such as Developmental Biology, Immunogenetics, Animal Behavior, Molecular Biology, Plant Biotechnology, Cancer Proteomics & Bioinformatics.

In the first session, Dr. T.J. Pandian, Visiting Professor, CAS in Marine Biotechnology, Annamalai University, a Fellow of the Academy spoke on "Primordial Germ Cells and Spermatogonial Stem Cells". Afterwards, Mr. Arun Kumar, Mr.V.S.Arun and Ms. Shyama, from the Madurai Kamaraj University (MKU) spoke on "The Genographic and the Migration of Man-40 & Genomic Technologies of Genographic-40".

In the afternoon session, a documentary film "Journey of Man and Story of India" was shown. In the technical session III, Dr.S. Sudhagar, Associate Professor & Head, Dept. of Biotechnology, Manonmanium Sundaranar University, Tirunelveli delivered a lecture on 'Aging'. He narrated the recent work that he has carried out in the field of Aging. In the last session of the first day, Prof. G. Marimuthu, a Fellow of the Academy, and the Convener of this Workshop spoke on Biology & Behavior of Bats.

On second day, the program began with the lecture by Dr. S. Kannan, Assistant Professor, Dept. of Zoology, Bharathiyar University, Coimbatore. He spoke on Cancer Proteomics. In the technical session VI, Dr. Hussain Munavar, Professor & Head, Dept. of Molecular Biology, MKU, Madurai, narrated the Novel regulatory network controlling transcription in *E. coli*.

Dr.K.Veluthambi, Professor & Head, Dept. of Plant Biotechnology, MKU and a Fellow of Academy, described in the technical session VII upon "Selectable marker elimination in transgenic rice". In Session VIII Dr. S. Krishnaswamy, Head & Chairperson, School of Biotechnology, MKU, explained how Bioinformatics tools are used to study the structural biology of porins of *Salmonella typhi*.

At the end of the program, a short, formal valedictory meeting was arranged. Dr.R. Narayana Prakash, summarized the two-day lecture proceedings. Dr. K. Muthuchelian, Vice-Chancellor Periyar University, Salem graced the function and addressed the audience. He pointed out the important role of biotechnology on health care. He mentioned the range of biotechnologies that help combat infection diseases, and the recent development in research in biotechnology like manufacture of heart using stem cells.

While elaborating about vaccines, he emphasized the role of biotechnology on production of vaccines for cancer, malaria, plant-based vaccines, etc. He concluded that Life Sciences, from classical biology to modern biotechnology touches the core of all lives and plays a vital role in developing medicines, vaccines, fine chemicals, energy generation etc.

During the two-day program the Academy's Science Education Journal 'Resonance' was displayed on the conference hall for the student participants to use them.



Dr.G.Marimuthu

Convener

4<sup>th</sup> February 2011 - Friday

Inaugural Session 09.30 am - 10.00 am

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iting of Kuthuvilaku  
**Shri.A.P.Selvarajan**  
Secretary, Sri Kaliswari College, Sivakasi  
come Address

**Dr.R.Narayana Prakash**  
Director, Department of Biotechnology  
Sri Kaliswari College, Sivakasi

roduction of the Programme

**Prof.G.Marimuthu**  
Convener, Head & Chairperson  
Department of Animal Behaviour and Physiology  
School of Biological Sciences,  
Madurai Kamaraj University, Madurai

gural & Presidential Address

**Dr.(Mrs).S.Kanmani**  
Principal, Sri Kaliswari College, Sivakasi

3 of Thanks

**Mr.S.Saravanan**  
Head, Department of Biotechnology  
Sri Kaliswari College, Sivakasi

00 am - 11.15 am Technical Session I

**Topic: Primordial germ cells and Spermatogonial stem cells**

**Dr.T.J.Pandian**  
National Professor

Break 11.15-11.30 am

30 am - 01.00 pm Technical Session II

**Topic: The Genographic and the migration of man - 40**

**Prof. R.M. Pitchappan**

1.30 pm - 2.30 pm Technical Session III

**Topic: Selectable Marker elimination in Transgenic Rice**

**Dr. K. Veluthambi**  
Professor & Head, Department of Plant Biotechnology  
School of Biotechnology, Madurai Kamaraj University, Madurai

2.30 pm - 3.30 pm Technical Session IV

**Topic: Novel Regulatory network controlling transcription in E.coli**

**Dr. Hussain Munavar**  
Professor & Head, Department of Molecular Biology  
School of Biological Sciences, Madurai Kamaraj University, Madurai

Tea Break : 3.30 pm - 3.45 pm

3.45 pm - 4.45 pm Technical Session V

**Topic: Biology and Behaviour of Bats**

**Prof. G. Marimuthu**  
Convener, Head & Chairperson, Dept. of Animal Behaviour &  
Physiology, School of Biological Sciences,  
Madurai Kamaraj University, Madurai

5<sup>th</sup> February 2011, Saturday

10.30 am - 11.30 am Technical Session VI

**Topic: Cancer Proteomics**

**Dr. R. Kannan**  
Assistant Professor, Department of Zoology  
Bharathiyar University, Coimbatore

Tea Break : 11.30 am - 11.45 am

01.15 - 2.15 pm - **Documentary Film: "Journey of Man and Story of India"**

02.15 am - 03.15 pm Technical Session VIII

**Topic: Structural Biology of outer membrane porins of S.typhi**

**Dr. S. Krishnasamy**

Head & Chairperson, School of Biotechnology  
Madurai Kamaraj University, Madurai

Tea Break : 3.15 - 3.30 pm

**Valedictory Session - 3.30 pm**

Welcome Address

**Dr.R.Narayana Prakash**

Director, Department of Biotechnology  
Sri Kaliswari College, Sivakasi

Valedictory Address

**Dr.K.Muthuchelian**

Hon'ble Vice-Chancellor,  
Periyar University, Salem

Vote of Thanks

**Mr.S.Saravanan**

Head, Department of Biotechnology  
Sri Kaliswari College, Sivakasi

Programme Convener:

**Dr.G.Marimuthu**

Prof. & Head, Chairperson  
Department of Animal Behaviour & Physiology  
School of Biological Sciences, M.K. University