

**J.J College of Arts & Science (Autonomous)**  
**Sivapuram Post, Pudukkottai 622422.**  
**P.G. & Research Department of Biotechnology**

**DBT & CSIR Sponsored National Conference - 4<sup>th</sup> and 5<sup>th</sup> January**

Biotechnology is one of the most important fields that have been gaining global attention for the opportunities in the latest emerging research fields. Biotechnology is a fast growing frontier area of research with tremendous potential in terms of food security, medicine and health care and industrial applications. There is a need for students and faculties of biological sciences to keep abreast of the latest developments in biotechnology. With this objective, **DBT, CSIR & MBSI** Sponsored National Conference, “**Global Opportunities and Latest Developments in Biotechnology**” was organized on **04.01.2024 & 05.01.24** by The Wilmut Club of Biotechnology, J.J. College of Arts and Science, Pudukkottai under the aegis of the college’s Biotechnology department. During inauguration, **Dr. K. Thangaraj**, the chief guest, Dr.Kavitha Subramanian, Management Trustee lighting the lamp.

Eminent speakers in the form of experts, scientists, researchers from different parts of the globe sat together in the conference and discussed various avenues like genetics, Population biology, livestock research and medicinal plant research. The conference was marked by lectures by **Dr. K. Thangaraj, Former Director, Centre for DNA, Fingerprinting & Diagnostics (CDFC)**, J C Bose Fellow, CSIR-Centre for Cellular and Molecular Biology (CCMB) Hyderabad 500 007, Telugana told that there is Modern India is a region of remarkable cultural, linguistic, and genetic diversity with over 4,500 anthropologically well-defined groups The genetic studies provided evidence that the enigmatic tribal populations of Andaman Islands are the first modern humans, who migrated out of Africa about 65,000 years back. Indian populations have descended from two divergent groups: (1) Ancestral South Indians (ASI) and (2) Ancestral North Indians (ANI).

**Dr. T. Bakyaraj Chief operating officer, St. Thomas Hospital, Chennai**, shares about the job opportunities, in the field of industrial Biotechnology, pharmaceutical industry, agriculture biotechnology, genetic engineering, clinical research.

Earlier, welcome addresses were given by **Dr. J. Parasuraman**, The Principal, J.J College of Arts & Science (A) and the formal vote of thanks were given by **Dr. G. Manigandan**, Head of the department, J.J College of Arts & Science (A), Pudukkottai.

Eminent speakers in the form of experts, scientists, researchers from different parts of the globe sat together in the conference and discussed various avenues like advance in improving independent crop sex through biotechnology, diagnosis of plant virus, genome engineering and synthetic biology. Throughout the session, lectures by **Dr.S.Uma** Principal scientist ICAR-National Research Centre for Banana, Tiruchurappalli, Tamil Nadu-620102. In her talk she notify Multiplication and improvement of sex independent crop through conventional approaches is a great task due to its own inherent problem such as less number of seed materials (suckers, buds, etc). She stated the challenges in creating variability or developing elite clones through hybridization can be overcome by developing transgenic as well as gene edited plants

**Dr. K. Kathiravan**, Professor and Head of the department of Biotechnology, **University of Madras Guindy campus Chennai**. He describe the convergence of nanotechnology with established molecular and immunological technique has a new era for plant virus detection. He explained integrated diagnostic approach demonstrate a synergistic amalgamation of nanotechnology, PCR, ELISA and immunological tools offering a comprehensive solution for the diagnosis of viral infection.

**Dr. Joseph Selvin**, Professor, Dept of Microbiology Director R&D, **Pondichery University**, Puduchery. He highlighted synthetic biology is an inter disciplinary biology engineering subject to carryout the biological processes, genome alterations, genome spaced devices, and high throughout platforms. He explained the recent developments in genomics and metagenomics created this new platform called synthetic (designer) genomics. He elucidate the synthetic biology defined the term 'life,' and its transformation including human longevity functional meta genomics .synthetic biology opens up new hope for a rebirth of this endangered animal.

They motivated the students to look for the doorsof higherstudies in biotechnology and briefed about them on how to approach the universities for better careeropportunities. They indicate the students to get a job in various biotechnological field. About **347 enthusiastic participants** from **18 colleges including undergraduate, post graduates tudents, researchers and scientists from different states of India** participated in the conference who showed great interest in the questionnaire in every lecture session.

The valedictory addresses were given and Prizes have been distributed by Dr. Joseph Selvin, Professor, Pondicherry University to all the winners. In paper presentation first price bagged by **Mr. Nivashkanna, National College, Trichy**. The second and third prices won by **Mr. Sakthivel, A.V.V.M. Pushpham College, Tanjore** and **Ms. Srika, Bishop Heber College, Trichy**. In poster presentation first price have been received by **Ms. Renuga, Bishop Heber College, Trichy**. The second and third prices won by Ms. Aiswarya, National College, Trichy and Ms. Varsha, Thiagarajah College, Madurai. Finally, the formal vote of thanks was givenby **Dr. V. Jayaramanathan**, Assistant Professor, Dept of Biotechnology, J.J College of Arts & Science (Autonomous), Pudukkottai.

**PRINCIPAL**

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