

J.J College of Arts and Science (Autonomous)
Sivapuram Post, Pudukkottai- 622 422

P.G & Research Department of Biotechnology

28.06.2023

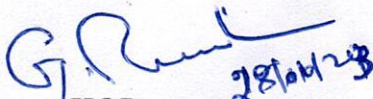
Guest Lecture programme conducted for the celebration of Doctor's Day

Title - " Diabetes : The Impact on Society"

To celebrate the **National Doctors' Day** that falls on July 1, a special guest lecture on diabetes was held on Wednesday at JJ College of Arts and Science, Pudukkottai and was organized by the Wilmut Club of PG and Research Department of Biotechnology of the college. As the day marks the birth anniversary of renowned physician and former **West Bengal Chief Minister, Dr Bidhan Chandra Roy**, the legendary figure was remembered and tributes were paid to him during the event.

The celebrations were aimed at recognizing the efforts of all doctors and healthcare workers for their services rendered during hard times. The guest lecture was given by **Dr. D. Venkatesh**, a renowned physician and Assistant Professor, from the Government Medical College, Thanjavur, on Diabetes. Apart from educating the science behind the disease, he urged the students to leave behind the sedentary lifestyle and get indulged in many physical activities to get rid of obesity which is one of the root cause of diabetes. Students of the department exhibited their talents by participating in a painting competition and the winners were awarded by prizes by **Dr. Venkatesh**.

Earlier during the inauguration, **Dr. G. Manigandan**, Assistant Professor and head of the department, urged the students, research scholars and faculty members to come with innovative and novel ideas to curb the disease.


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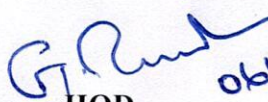
06.07.2023

“World Zoonoses Day”- An Awareness Lecture entitled on
“ Recent trends & impact of Zoonoses”

The Wilmut Club of Biotechnology under the aegis of P.G and Research Department of Biotechnology, J.J. College of Arts and Science, Pudukkottai observed the **World Zoonoses Day** and organized an invited lecture on **“Recent trends and impact of Zoonoses”** on Thursday (06.07.23).

The talk was given by **Mr. K. Jeremiah Kirubananth**, Assistant Professor, P.G. and Research Department of Zoology, Bishop Heber College, Trichy in which he emphasized that the global COVID-19 pandemic has been a harsh reminder of the age-old threat posed by zoonoses or zoonotic diseases, infectious diseases transmitted from animals to humans. Sixty percent of human pathogens come from animals, while seventy five percent of new, emerging and re-emerging diseases are zoonotic. Besides explaining the different types of zoonoses, Mr. Jeremiah reminded that COVID-19 global pandemic hit the world unprepared and has shown us all the damaging impact zoonotic diseases can have. He explained the global trend of zoonotic diseases and the impacts they bring about in the society. Students and staff from the department attended the seminar which was followed by questionnaires by the enthusiastic students.

Earlier, the seminar was opened with the welcome address by **Dr. V. Jayaramanathan**, Assistant Professor in the department who highlighted the importance of emerging zoonotic infections and their control strategies to prevent future pandemics. He highlighted that such intellectual cum awareness talk were important to educate people to control the zoonotic diseases. **Dr. G. Manigandan**, head of the department, greeted the chief guest and **Dr. V. Subramanian** gave the vote of thanks.


HOD 06/07/23

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28.07.2023

Guest Lecture programme conducted for the celebration of World Nature Conservation Day
The Lecture entitled “ Measures to Protect Nature ”

World Nature Conservation Day was celebrated by the Wilmut Club under the aegis of P.G. and Research Department of Biotechnology, Pudukkottai on Friday. The Chief guest of the programme was **Dr. S.R. Senthil Kumar**, Associate Professor and Head, P.G. and Research Department of Botany, St. Joseph's College, Tiruchirappalli. The programme was started with tree plantation with some indigenous species of plants. The objective of the programme was to increase awareness among the students about protecting the natural resources that the Earth is bestowed with.

The tree plantation was followed by a special lecture by **Dr. Senthil Kumar** on ‘**Measures to Protect Nature**’. Dr. Senthil in his address highlighted that it is high time that due present generation inculcates environment friendly habits to lead a green life style. He added that people should promise to alter their habits to help in saving natural resources, animals and trees on Earth. He emphasized that the day is celebrated to acknowledge that a healthy environment is the foundation for a stable and healthy society.

Dr. G. Manigandan, Assistant Professor and Head, P.G. and Research Department of Biotechnology, Pudukkottai said that the aim of the program was to propagate awareness amongst our students and make them aware that conservation of resources is an important step in saving the Earth as a group of thoughtful, committed and responsible citizens can change the world. The programme was hosted by Ms. Suveena and Vote of thanks proposed by Ms. Azra Firdous, students of the department.


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05.01.2024

“Global Opportunities and Latest Developments in Biotechnology”

DBT & CSIR Sponsored National Conference - 4th and 5th 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 doors of higher studies in biotechnology and briefed about them on how to approach the universities for better career opportunities. They indicate the students to get a job in various biotechnological field. About **347 enthusiastic participants** from **18 colleges including undergraduate, post graduates students, 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 given by **Dr. V. Jayaramanathan**, Assistant Professor, Dept of Biotechnology, J.J College of Arts & Science (Autonomous), Pudukkottai.


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19.02.2024

Guest Lecture programme entitled on “Biotech Carrier Guidance in Digital Era”

Wilmut club of Biotechnology, J. J. College of Arts and Science (Autonomous), Pudukkottai, organized a special lecture programme on **“Biotech Carrier Guidance in Digital Era”** by **Dr. P.Rathinapriya**, Professional Researcher, National Institute of Horticulture and Herbal Medicine, RDA, South Korea on 26th January, 2024 at 10.00 A.M in Karpaga Vinayaga Institute of Management, Seminar Hall.

She explained the basic concepts and applications of Biotechnology in modern medicine and agriculture sectors. She said that understanding of Biotechnology of modern technology and human need is very important for future development of mankind. There is an immense career scope in Biotechnology and job opportunities in Biotechnology include, Forensic Science Technicians, Medical Scientists, Microbiologists, Environmental Biotechnologist, Geneticist, Molecular Biotechnologist, Epidemiologist, R&D Scientists, Biochemist, Biophysicist in her lecture she also stated that, student should expertise their self in job market.

She clearly points out the recent inventions of Biotechnology in digital era and job-oriented techniques. She stated that, a bundle of new techniques applied to living cells. Biotechnologists are engineered this living cells to produce a particular product of improved quality. Biotechnology is the exploitation of natural resources at the microbial and molecular level to produce a product of improved quality for the benefit of mankind.

She discusses further how this knowledge can be applied to manipulate Biotechnology being an interdisciplinary field involves combined scientific research projects involving disciplines such as microbiology, horticulture, immunology, molecular biology, genetics, biochemistry, chemistry, food science, agriculture and engineering.

She explained the opportunities and challenges in the field of biotechnology. Agricultural biotechnologists conduct research for improving crop, livestock, forestry and fishery. Their work involves devising biotechnological techniques for increasing productivity, quality, efficient processing and utilization of products with lesser reliance on agriculture. The

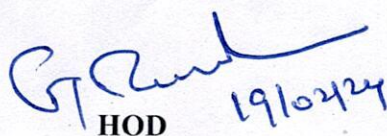
development of bio insecticides, bio-chemicals and tissue culture has been the contribution of bio technologists which has almost revolutionized agriculture sciences.

She explained the importance of herbal medicine and disease prevention methods. Medicinal plants are the most important source of life saving drugs for the majority of the world's population. Plant secondary metabolites are the economically important as drug, fragrances, pigments, food additives and pesticides. The biotechnological tools are important to select, multiply, improve and analyses medicinal plants. Some herbs have potent ingredients and should be taken with the same level of caution as pharmaceutical medications.

She also described the various competitive exams like GATE, SET, NET, ASRBNET, Meritorious Scholarship, Rajiv Gandhi Scholarship and Prime Minister Fellowship, how to achieve the research ability and innovative ideas, so that you can achieve a lot.

She elaborately explained, how to apply for internship programs in central government research institutions. Initiated the students, how to prepare the Curriculum Vitae and covering letter for Job and Higher studies in foreign countries.

Finally, she interacted with the students of biotechnology. **Dr. V. Jayaramanathan** welcomed the gathering and **Mrs. M. Sakthipriya** gave vote of thanks in Presence of **Dr.G.Manigandan**, Head of the Department of Biotechnology, J.J.College of Arts and Science (Autonomous), Pudukkottai.


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