

J.J. College of Arts and Science (Autonomous)

J.J. Nagar, Sivapuram Post, Pudukkottai

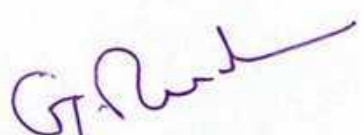
PG and Research Department of Biotechnology

Special lecture - Academic institutions have huge role

in minimizing environmental issues - 26.12.22

Academic institutions have to connect with society to minimize the deleterious impacts of environmental degradation. Their engagement at the community and college levels can certainly bring about a discernible change in our approach to environment protection, according to **Dr. V. K. Langeswaran**, Assistant Professor, **Department of Bioinformatics, Alagappa University, Karaikudi**. He was speaking at a lecture on '**Importance of Biotechnology in Environmental Protection**' organized by The Wilmut Club of PG and Research Department of Biotechnology, JJ College of Arts and Sciences, Pudukkottai. He further reiterated that as the world is becoming increasingly connected due to globalization, so are the environmental issues. The need for sustainable development must also be taken into account while ensuring protection of the environment. His talk also laid emphasis on various environmental issues and different Biotechnological strategies to cope them with special reference to the effect of toxic metals in causing cancer. He discussed several key points related to the techniques like phytoremediation, mycoremediation, etc.

Earlier, the seminar was opened with the welcome address by Dr. G. Manigandan, Head of the Biotechnology Department who highlighted the importance of such programmes in educating students about scientific research in a way to come up with innovative techniques to curb many environmental issues. During the programme, 'Best Student' awards and certificates were also presented to Ms. S. Suveena and Ms. K.P. Aishwarya, students of the department by Dr. Langeswaran. The students were selected for the award by the Microbiological Society of India to honour and encourage the achievements of the young minds.


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Special lecture-cum-training on cell culture conducted

The Wilmut Club of PG and Research Department of Biotechnology, JJ College of Arts and Sciences (Autonomous), Pudukkottai organised a special lecture - cum - hands on **training on Cell Culture Techniques** on Wednesday (17.08.2022). The talk was given by **Dr. S. Ganesan, Assistant Professor (SG), Department of Zoology and Biotechnology, A.V.V.M. Sri Pushpam College, Thanjavur**. He explained that cell culture is a very versatile tool in the investigation of basic scientific and translation research questions. The advantage of using cell lines in scientific research is their homogeneity and associated reproducibility in data generated. He introduced the students about different cell lines like 3T3, L6, Panc 1, HeLa, etc. and their different types. His talk also laid emphasis on principles behind the setup of a cell culture lab, their main components, and the guidelines that ensure safety of the lab personnel as well as the cultured cells. He discussed several key points related to the techniques to check the cell count, viability and their characterization. Later in the day, he conducted a hands-on training program to the students of the department.

Earlier, the seminar was opened with the welcome address by **Dr. P. Priyadarshini, Assistant Professor** from the department who highlighted the importance of cell cultures in research and diagnosis of diseases. She highlighted that such programmes are important to educate students about scientific research and encouraged them to come up with innovative techniques to curb many ailments.


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Special lecture - "Emerging personalized medicine for cancer therapy"

The Wilmut Club of PG and Research Department of Biotechnology, JJ College of Arts and Sciences (Autonomous), Pudukkottai organised a special guest lecture programme on Monday (25.07.2022). The Chief Guest **Dr G Mathan**, Associate Professor, Department of Biomedical Sciences, Bharathidasan University, Tiruchirappalli made special talk on "Emerging personalised medicine for cancer therapy". In his talk he explained that the personalized cancer medicine comes from studies of human genes and the genes in different cancers. These studies have helped researchers design more effective treatments. They have also used genetic information to develop tests for cancer and ways to prevent it. Personalized cancer medicine can have fewer side effects than other types of treatment. This is because it is designed to be more specific. A personalized treatment may affect healthy cells less and cells involved in cancer more.

He also described the doctors may work with cancer patients on a personalized cancer screening or cancer treatment plan by learning patient's chances of developing cancer and choosing screening tests to lower the risk, matching the treatment to patient's genes and his/her cancer genes and predicting how likely the cancer is to come back. He also differentiated the personalised cancer therapy with other cancer therapy. In conclusion he listed out the future prospects of personalised medicine for treating the cancers.

Students and staff from the department attended the guest lecture programme and cleared their queries with the chief guest. At the commencement of programme Chief Guest was honoured by Dr G Manigandan, Head, Department of Biotechnology and Dr V Jayaramanathan, Assistant Professor delivered welcome address. Mr Akash, Student from the Department introduced the Chief Guest by emphasizing his academic and administrative achievements. Finally Dr. V. Subramaniyan, Assistant Professor of Biotechnology proposed the vote of thanks.

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Special lecture - Collective effort required to curb Zoonotic diseases

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 organised a seminar "Zoonotic disease and its prevention" on Wednesday (06.07.22).

The talk was given by **Dr. A. Nagasathya, Assistant Professor and Head, Dept. of Zoology, Govt. Arts and Science College for Women, Pudukkottai** in which she 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 75% of new, emerging and re-emerging diseases are zoonotic. Globally, it is estimated that every year, around 2.6 billion people suffer from zoonotic illnesses and around 2.7 million succumb to these.

Besides explaining the different types of zoonotic diseases, Dr. Nagasathya reminded that COVID-19 global pandemic hit the world unprepared and has shown us all the damaging impact zoonotic diseases can have. By continuing to strengthen scientific R&D on zoonotic pathogens, at the environment-animal-human interface, we can pre-empt these diseases and protect human health and world economies in the future. Students and staff from the department attended the seminar which was followed by questionnaires by the enthusiastic participants.

Earlier, the seminar was opened with the welcome address by Dr. G. Manigandan, Head of the Biotechnology 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. Staff from the department Mrs. Priyadarshini, greeted the chief guest and Dr. V. Jayaramanathan gave the vote of thanks.


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