

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

Department of Microbiology
Special Lecture on
Blood Disorders and Blood Safety- 19.06.2023
Report of the Event

In remembrance of World Sickle Cell Day, **Jenner Club of Microbiology** conducted an Awareness Programme on “**Blood Disorders and Blood Safety**”. **Dr.K.Mala Shankar M.B.B.S., DGO.,** Consultant Obstetrician & Gynaecologist Anjalai Ammal Clinic, Pudukkottai gave an awareness regarding this topic.

In her speech she highlighted World Sickle Cell Anemia Day is celebrated on June 19 every year, and sickle cell anemia is defined as a group of inherited red blood cell disorders. The international awareness day is observed annually with the goal to increase public knowledge and an understanding of sickle cell disease, and the challenges experienced by patients and their families and caregivers.

She spotlighted that the Sickle cell disease is a genetic condition that affects the body's red blood cells. It occurs when a child receives two sickle cell genes - one from each parent. In someone living with this disease, the red blood cells become hard and sticky and look like a C-shaped farm tool called a “sickle”.

She focused on that when sickled red blood cells travel through small blood vessels, they get stuck and clog the blood flow. This can cause pain and other serious problems such as infection, acute chest syndrome and stroke. The pain experienced by people living with sickle cell disease can vary in intensity and last for a few hours to a few weeks.

She narrated while the disease is most common among African Americans, other racial and ethnic groups are affected, including Latinos and people of Middle Eastern, Indian, Asian and Mediterranean backgrounds. Sub-Saharan Africa has the greatest burden of disease, with more than 300,000 babies born with the disease each year. However, the disease is common enough in the United States that there are about 100,000 people currently living with sickle cell disease but uncommon enough that medical professionals rarely see sickle cell disease patients.

She suggested the students to use some self-management strategies to reduce the effects of sickle cell disease such as drinking plenty of fluids, eating a healthy diet, preventing infections by being fully vaccinated and sometimes taking daily antibiotics if needed, avoiding extreme



temperatures, avoiding over-activity, using pain relief medicines (for example, paracetamol or ibuprofen) to manage your pain

In view of this II & III B.Sc. Students, II M.Sc. students of Microbiology Department actively took part in the discussion. Earlier Dr.P.Jeevan, Head, Department of Microbiology welcomed the gathering and Ms.S.Vijaya Samoondeswari, Assistant Professor, Department of Microbiology, proposed vote of thanks.


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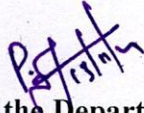
Special Lecture on
Current Trends and Opportunities in Biosciences – 24.07.2023
Report of the Event

Jenner Club of Microbiology, Conducted a Special Lecture Programme on **24.07.2023**.

Dr. G. Muralitharan, M.Sc., M.Phil., Ph.D., Associate Professor, Department of Microbiology, Co-ordinator - NRMCF & M, Bharathidasan University, Tiruchirapalli - 24 delivered a lecture on the topic of **“Current Trends and Opportunities in Biosciences”**.

In his talk, he emphasised the importance of developments in basic life science disciplines as well as the importance of new demand-driven sectors. He also covered significant advances in agriculture, microbiology, food quality control, genetic variety, and genetic engineering, as well as more study and career options available to students. Furthermore, he claimed that innovative machines, such as a bio-fertilizer spraying drone, are being deployed for paddy harvesting as part of the agriculture department's new strategy. He also said that driving is used to breed new plant species. He also stressed the importance of green algae in everyday life, as well as automation in the food industry.

He briefed the students about the plans of various departments to grow themselves at the federal and state levels, as well as the tactics for doing so. Finally, the potential of the sector were emphasised by ICAR, ICMR, DBT, DST, CSIR, SERB, and DRDO. He also talked about job chances in the private sector. A total of 156 students from I B.Sc. Microbiology, Biotechnology, Biochemistry and Botany and II M.Sc. Microbiology students participated in this lecture. Earlier Dr. P. Jeevan, Head, Department of Microbiology, welcomed the gathering Dr. M. Poornima, Assistant professor proposed vote of thanks.


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