

Department of Biomedical Science
Activities 2024-2025
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I. Summits/Visits

- i. **Global Bio-India 2024-** The students of 3rd year of the Department of Biomedical Science attended the Global Bio-India 2024 summit held from 12-14 September 2024 at Pragati Maidan, New Delhi. The summit was organised by Biotechnology Industry Research Assistance Council (BIRAC), a not-for-profit public sector enterprise, set up by Department of Biotechnology (DBT), Government of India in collaboration with various non-profit and private organisations from the biotechnology sector. The summit was focused on the opportunities and key challenges in the areas of bio-manufacturing, capacity-building, clinical trials, drug discovery, regulation & policies creating global supply chains for achieving a growth-oriented roadmap for the biotechnology sector in the country. It comprised of speaker sessions by some of the most prominent personalities of the biotechnology sector as Kiran Mazumdar Shaw, Tina Sejersgård Fanø, Dr Sanjay Singh to name a few.

The summit also comprised of an exhibition showcasing various innovations, products and technologies from numerous stakeholders from across India and around the world. The students got an insight into a plethora of entrepreneurship ideas and the advancements in the field of biotechnology.

Participants: 21



II. Workshops/Seminars Organised

- i. **Molecular Docking & Bioinformatics Databases-** A hands-on workshop on “Molecular Docking & Bioinformatics Databases” was organized under the annual technical fest- “Plexus” on the 24th of October 2024. The workshop was headed by Dr. Uma Kumari, the founder, professor and senior scientist in Bioinformatics Project and Research Institute (B.P.R.I.), Noida. The workshop focused on the utilization of various bioinformatics tools especially PyMOL and RasMol. The participants got an exposure on operating these tools and the several ways of visualisation of biomolecules utilizing them.
 Name of Resource Person: Dr. Uma Kumari, Bioinformatics Project and Research Institute (B.P.R.I.), Noida.
 Participants: 69



III. Annual Technical Fest-Plexus

The annual technical fest, Plexus was organized on 23rd and 24th October, 2024. The theme of the fest was “Regenerative Medicine”. The first day of the fest comprised of a speaker session on the same by Dr. Pramod C. Rath, an expert member and co-chair in Department of Biotechnology (D.B.T) Research Associate Fellowship Committee (I.I.Sc. & R.C.B.). He gave a thorough introduction on stem cells and its various types, followed by organ-specific stem cells and their various sources. The audience further got an insight into stem cell potency and importance of research on stem cells and regenerative medicine to treat diseases like Alzheimer's and Parkinson's and their special role in combating age related disorders.

The annual magazine “Biome” was unveiled by the chief guest.

On the second day of the fest, a hands-on workshop on “Molecular Docking & Bioinformatics Databases” by Dr. Uma Kumari was organised.

Name of Resource Persons: Dr. Pramod C. Rath, Department of Biotechnology (D.B.T) Research Associate Fellowship Committee (I.I.Sc. & R.C.B.), Dr. Uma Kumari, Bioinformatics Project and Research Institute (B.P.R.I.), Noida.

Participants: 71

Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
NAAC Grade A+ NIRF Ranking 38
DEPARTMENT OF BIOMEDICAL SCIENCE

CHIMERA

Under the aegis of IQAC

PLEXUS'24

The Annual Technical Fest
presents
SPEAKER SESSION
ON
"REGENERATIVE MEDICINE"
BY DR. PRAMOD C. RATH

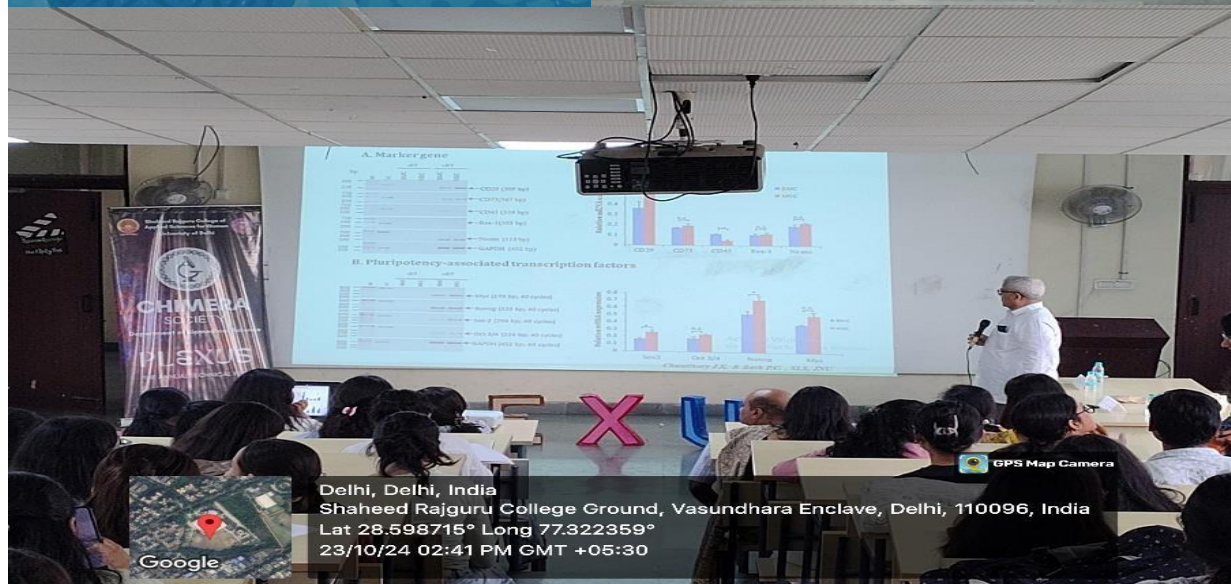
Registration Deadline : 22nd October

23 OCTOBER 2024
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REGISTER NOW !!!

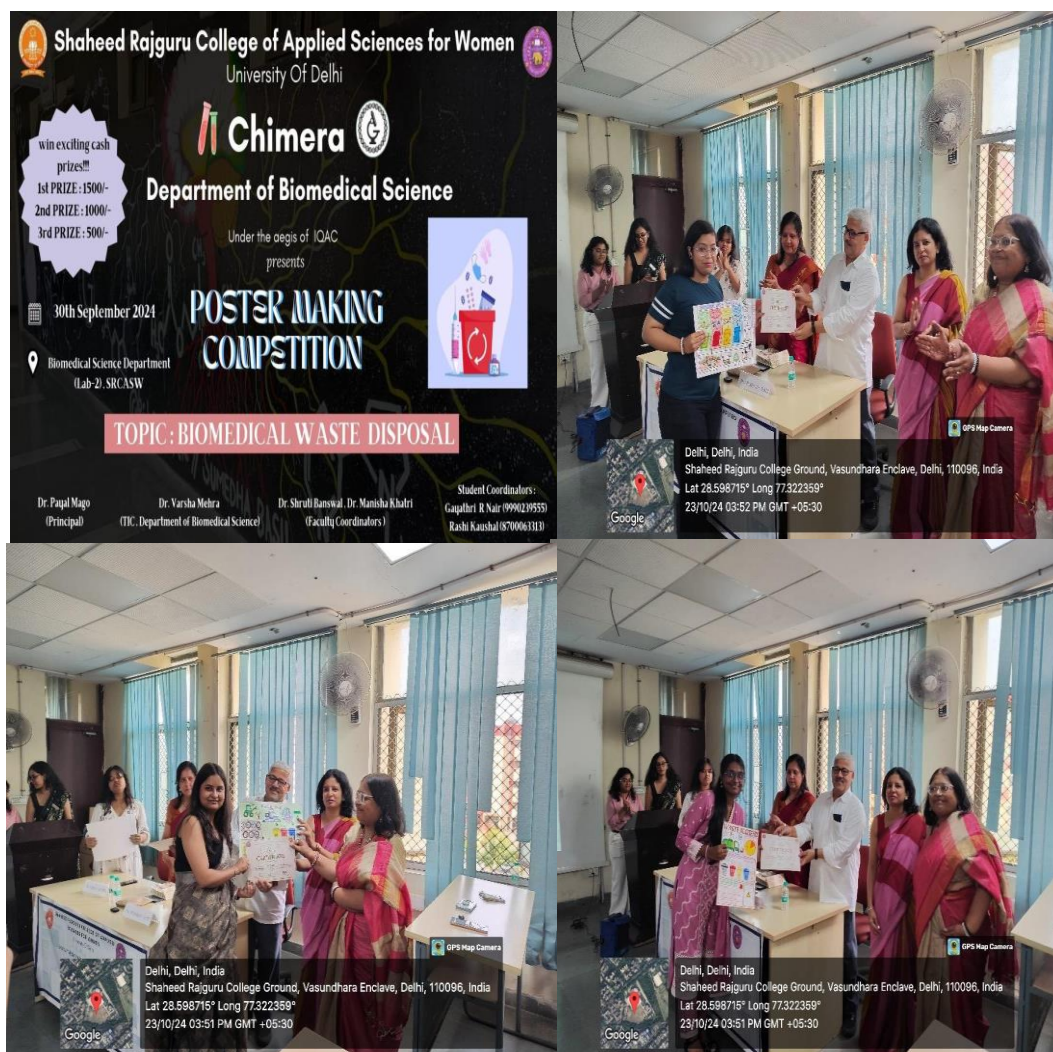
For more queries : Gayathri (9990239555). Rashi (8700063313)



IV. Competitions

Poster Making Competition- An inter-college poster making competition on “Biomedical Waste Disposal” was organized on 29th September, 2024. Vibrant and informative posters from different departments of the college were received. The results were declared during the annual technical fest. The first position was bagged by Ishika from the department of Biomedical Science and the runners-up were Vanshika Jain and Gayathri R Nair.

Participants: 36



V. Health Mela 2025- Health Mela 2025, a comprehensive health check-up and awareness event was organised by CHIMERA- the Department of Biomedical Science and Internal Quality Assurance Cell (IQAC) in collaboration with Bhori Living Humanely Foundation and Chacha Nehru Bal Chikitsalaya on 29 January 2025. Multiple tests and screenings were made available free of cost in the college premises for better assessment of overall health.

Blood pressure, RBS (random blood sugar), thyroid/cholesterol/diabetes, pulmonary function test, eye test, dental checkup, cancer screening and thalassemia screening were conducted.

Awareness session was held on thalassemia by **Dr. Sunita Jetly** and **Dr. Dimple Chaudhary**, highlighting the causes and spread of the disease in the Indian population. Awareness session on organ donation was held by **Mr. Balram Rajpuria**, Organ transplant Coordinator, ORBO, AIIMS Delhi, emphasising the need for signing up as organ donors and highlighting more such instances of organ donation.

Name of Resource Persons: Dr. Sunita Jetly, Associate Professor, Acharya Narendra Dev College; Dr. Dimple Chaudhary, Nodal Officer, State Blood Cell; Mr. Balram Rajpuria, Organ Transplant Coordinator, ORBO, AIIMS Delhi; Dr. Sushma Dhar, Senior Oncologist, Dharamshila Hospital; Mr. Ashok Gupta, Lakshminarayan Trust.

Participants: 200



VI: Seminars Organised

I. Seminar on Good Lab Practices- A seminar on “Good Lab Practices” was organised by CHIMERA- the Department of Biomedical Science and Internal Quality Assurance Cell (IQAC) of Shaheed Rajguru College of Applied Sciences for Women on 6 February 2025. **Dr. Meenakshi Sharma**, Associate Professor at Dr. B.R. Ambedkar Center for Biomedical Research was invited for the session. She introduced the concept of Good Lab Practices and emphasised on the need for following the principles and framework laid down.

Name of Resource Person: Dr. Meenakshi Sharma, Associate Professor, Dr. B. R. Ambedkar Center for Biomedical Research.

Participants: 81



II. Talk Session on Virology- Chimera- the Department of Biomedical Science of Shaheed Rajguru College of Applied Sciences for Women in association with Translational Health Science and Technology Institute (THSTI) organised a speaker session on “Advancements in Virus Surveillance, Drug Development and Vaccine Evaluation” on 4 April 2025. The speakers for the session were **Dr. Sankar Bhattacharyya** and **Dr. Shailendra Mani**, both scientists at BRIC THSTI. Dr. Bhattacharyya shed light on various virus detection methods including virus neutralization assay and cytopathic effect. He also gave an insight into the career options available in the field of virology. Dr. Mani focused on the spread of human pathogenic viruses and virus surveillance, the need and programmes undertaken by the Govt. of India to ensure proper surveillance. The speaker session was followed

by a questionnaire session, where students interacted with the scientists to get a better perspective of their field of work.

Name of Resource Persons: Dr. Sankar Bhattacharyya, Scientist-E, BRIC THSTI; Dr. Shailendra Mani, Senior Research Scientist, BRIC THSTI.

Participants: 54



VII: Recreational Activities

- i. **Trip to Udaipur-** The students of the department visited the “City of Lakes”- Udaipur from 2 to 6 March 2025. They visited the major tourist spots of the city- City Palace, Jagdish temple, Neemach Mata temple, Karni Mata temple, Saheliyon ki Bari, Fatehsagar Lake, Pichola Lake, Sajjangarh Fort, Sanwariya Seth temple and Bahubali hills. They also indulged themselves in leisure activities of boating in Pichola Lake and shopping at Hathipole market.

Participants: 24

