

1. The Bioinformatics Center

Computational and systems biology programs involve usage of computational tools and approaches in teaching and research in biological, medical, behavioural or health data, including those to acquire, store, organize, archive, analyze, or visualize such data. Daulat Ram College, biochemistry department believes in interdisciplinary goal-oriented research and innovation in the areas broadly related to computational sciences, such as computational & systems biology using mathematics and statistics. As the bioinformatics course is offered by the department, BIC provides services to cater the course in the department. Further the center aims to conduct workshops for students and faculties of other colleges to train them in basic bioinformatics tools. Small scale research can also be conducted with undergraduate students. The facility also assists students in developing skills such as scientific writing and presentation, knowledge of intellectual property rights, ethics, morals and socio-scientific attitude to ensure their overall development.

2. Drosophila Resource Center

The Drosophila Resource Centre was set up in the Department of Biochemistry almost 10 years ago. The centre is funded by DBT Star College Project. It aims to teach the basic principles of genetics using Drosophila as a model system. Almost 250 students have been trained since its inception. Students of different life science streams such as Botany, Biochemistry, Life Sciences and Zoology from DU and Punjab University have been trained at the centre. A lab manual on 'Rediscovering Genetics' has been published in 2016 that covers the range of experiments performed by the students at the centre. The students have been immensely benefited by this training which is reflected in their selection and perusal of higher education in genetics from prestigious places. The centre also provides stocks and support to many colleges of Delhi University and AIIMS.

3. Campus Sustainability Center We are working on various aspects of Campus Sustainability like environment and Health Environment Sustainability We are working on environmental sustainability on the DRC campus. We had undertaken a project on Campus footprint and HandPrint on Campus. Under this project we undertook the study on our polluting parameters and our saviors of pollution on campus. To increase the handprint we have set up a recycling unit where the recycling of fallen leaves and paper is undertaken. I have trained two M.Sc students who worked on the Air Pollution Tolerance Index and Anticipated Performance Index of the green campus. At present I have two PhD students enrolled who are working on the biotechnological project of converting organic waste to bio-resource which can be used in organic farming. They will be using biochemical, chemical, microbiological and metagenomic studies for this purpose.

4 Health Sustainability We have been working on health sustainability by focusing on issues like Polycystic Ovary Syndrome (PCOS) amongst young women studying on campus. We had undertaken a project on investigating the prevalence of PCOS in undergraduate girls.

MoU

Party 1	Party 2	Purpose	Objective
Dr Sarita Nanda	Harit Agro	To Facilitate Composting of organic waste	To optimize functioning of the recycling Unit
Dr Padamshree Mudgal	Sansriti Foundation	To Facilitate Zebrafish research	To optimize functioning of the Zebrafish Lab