



Kanoria
PG Mahila
Mahavidyalaya
Jaipur

17. Workshop on Genetic Modification of Desired Genes Using CRISPR Technology

Date: 22-01-2019 to 23-01-2019

1. Brochure:

makeintern.com | **E-Cell IIT Kharagpur** | **National Level Competition For Students Association with ECell Fest (IIT Kharagpur Event)**

Workshop Details

Topic : Genetic Modification of desired genes using CRISPR technology (GENE editing tools and salient features)
Date : 22nd - 23rd January 2019
Registration Fee - Rs 1150/-

Highlights

1. Industry Experts as Trainers.
2. All Participants will receive Prize and Certificate in each round
3. Competition to be conducted at the end of the workshop on the second day to select top 5 students.
4. Five selected students would be participating in finale round at IIT Campus.
5. Internship assistance for all participants.

Round of Selection

1st Round:
Kanoria PG Mahila Mahavidyalaya Jaipur

2nd Round:
IIT Kharagpur

Venue : Kanoria PG Mahila Mahavidyalaya Jaipur
HOD : Dr. Ritu Gupta (9079169816)
Co-ordinator : Dr.Kamakshi Tomar (9887788098)
Student Co-ordinators : Ms. Bhumika Nirwan (8696207447)
Ms. Jagrati Agarwal (9166795508)

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2. List of resource person/guests:


1. Dr. Jyoti Bala, Chief Scientific officer, Molsys Pvt. Ltd (Biotechnology Company) and WERP-India



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3. Geotagged photograph of the event:



 26.88635, 75.81223

Group Photograph at the Valedictory Ceremony



 26.88635, 75.81223

Certificate distribution to the Participants

Report

Department of Botany organised two day workshop on " Genetic modification of desired genes using CRISPR technology (Gene editing tool and salient features) in association with E-cell fest, IIT Kharagpur on 22- 23rd January, 2019. The workshop was conducted by Dr. Jyoti Bala which was sponsored by make intern.com and E- cell, IIT Kharagpur.

This workshop aimed to spread awareness and knowledge about the use of cas-9 by CRISPR technology. The workshop also included the use of Aptamer technology specifically in the field of gene editing. CRISPR cas-9 is a unique technology that enables scientists and medical researchers to edit part of genome by adding, removing and altering section of DNA sequence.

The important steps and sites were also discussed regarding this technology such as NCBI (National centre for Biotechnology information), sequence massager, BLAST (Basic local alignment search tool), M FOLD, FASTA format, R- crisp org., chop-chop, RNA fold etc. The major role of Bioinformatics in the field of CRISPR technology was also discussed.

Hands on sessions were also conducted on Bioinformatics tool and gene transformation. The students also participated in national level competition in which 5 students were selected for final round at IIT, Kharagpur.

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