

Centurion University of Technology and Management Dept. Of Chemistry, SoAS

FDP on

Gene analysis technique and biomolecular dynamics

Recourse person

Dr. Monalisa Mishra, Dr. Hirak Chakraborty, Dr. Harekrushna Sahoo Date: 28th and 29th May 2019

Number of Participants: 42

Resource Persons Profile

Dr. Monalisa Mishra is an eminent scientist with years of Postdoctoral experience who is working as Assistant Professor in the Dept. of Life Science at NIT Rourkela.

Dr. Hirak Chakraborty is a renowned researcher in the field of cellular and molecular biology and a faculty member of Sambalpur University, Odisha. with a Postdoctoral degree.

Dr. Harekrushna Sahoo is an Associate Professor in NIT Rourkela. He is also a guest scientist in the Max Bergmann Center of Biomaterials (MBC) in polymer science.

About the programme

Genetic testing is the laboratory analysis of human genetic material including chromosomes, deoxyribonucleic acid (DNA) or ribonucleic acid (RNA) to detect genetic material and/or identify genetic changes. Chromosomes are composed of DNA. Specific DNA segments called genes serve as templates to make (transcribe) RNA. Genetic changes are referred to as "variations" or "variants" and they can have many different effects on the body. While most genetic variations do not affect a person's health, they are sometimes related to disease. Molecular dynamics (MD) is a computer simulation method for analyzing the physical movements of atoms and molecules. The atoms and molecules are allowed to interact for a fixed period of time, giving a view of the dynamic "evolution" of the system.

In the two days FDP participants can learn about both gene analysis and biomolecular dynamics, so that they can effectively use it in analysing in their research field.

Objective

- Gene Regulation and Gene Behaviour
- Various Techniques Used to Check the Functionality of a Gene
- Basic Optical Spectroscopy Techniques in Biomolecular Dynamics
- Protein Aggregation and Membrane Fusion
- Advanced Optical Fluorescence Techniques
- Protein stability
- Protein Kinetics
- Protein Dynamics.

Outcome

- This FDP was very beneficial to all the faculty members, with which they can strengthen their research.
- This type of platform is helpful to interact and connect with different faculties with innovative ideas.
- This FDP was very helpful to learn about different approximation techniques to solve many body problems.
- FDP in other fields/topics should be arranged at least twice a year to advance and update the knowledge of faculty members.







Figures: Faculty Development Program on Gene analysis technique and biomolecular dynamics

List of Participants:



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Centurion University of Technology and Management

Faculty Development Program on

Gene analysis technique and biomolecular dynamics

Date. 28th and 29th May 2019

Attendance Sheet

SL No	Name of Participant	Signature(Day-1)	Signature(Day-2)
1	Abhilash Behera		
2	Ivaturi Siva Ramakoti	Sactonwor	Siverformet
3	Sarita Gamayak	Jarota Ganaya	Santa Grimayak
4	Suchismita Acharya	S. Achasya	S. Acharga
5	Arun Kumar Pradha	Aoun Bradhan	-Ann Pradhan
6	Chittaranjan Routray	Chitteranian	Chittasanjan
7	Pragnya Paramita	Pratyrigh	Praiming
8	Niraja rani patra	Miria Patra	Noraja Patra
9	Suraj Kumar Behera	Sluban.	- Shiph
10	Koustava Kumar Panda	P. D. Paula	- Z. Z. Panda
11	Dr Raghu Gogada	Rebards	8 Courds
12	CHINMAYEE TRIPATHY	Chinmayre	chinmayee

13	Bhagyeswari Behera	Bahangy Konnahit.	Robert By esward
14	Aditya Kumar Purohit		<i>i</i> .
15	Sujit Kumar Mishra	Seyitingher	Suptrister
16	Rajesh Raman Mishra	Rijesh Ranch	Pairshpring
17	Mr. Abhishek Joshi	Bhistory	Abbarber .
18	Chandana Adhikari	chundant	chai daire
19	Dr.Gyanranjan Mahalik	Gettuchur.	Golom:
20	Jyotirmayee Dash	Typotrucijae	Jupolinaujar
21	Sunita Mishra		
22	Pankaja meher	Pankala Mehore	Pankaja Wheeher
23	Dr. Ashish Kumar Sahoo	Ar, her lation	Ar, Lab Salar
24	Anupam Sahoo	A. Salan	Asaban
25	Siva Sankar Anisetti		
26	Niladri Sarkar	Niledai	10 ledai
27	Jyoti prakash Rath	-Lyoh Rath	
28	Pradip Kumar prusty		Prestin
29	Debashish Tripathy	Thipathy	D. Tripotan

30	Dr. M.L.N. Acharyulu	NURAchasyda	Minsteinsynta
31	Dr. Narayan Gouda	Narayan Gouda	Narayan Gouda
32	Dr. Prativa Tripathy		Pratico Enpathy
33	Dr. Satyanarayan Dhal	Satyanorayan Ohal	Satyanasayan Dhal
34	Dr. Banita Mallik	Robellein.	
35	Balaji Padhi	Onday: Padhi	Baliji Palu
36	Sourav Karmakar		
37	SNS Neelima	SM's Decline	SNS. Dealing.
38	G.K. Sahu		G.K. Sahre.
39	Dr. Debasish Swain	Deswain	D. Swain
40	Durgadatta Meher	Dusgadath Meher	
41	Dr.Prabhat Kumar Singh		Ballakingh .
42	Dr.Sanjeeb Kumar Patro	Sayeer pate	

Param

Dr. Prasanta Ku. Mohanty Dean Academic

Rpatra

Prabhat K. Pattnaik FDP Coordinator