



SCHOOL OF LIFE SCIENCE & TECHNOLOGY IS ORGANISING

TWO DAY FACULTY TRAINING WORKSHOP

UNDER THE MoU SIGNED BETWEEN IIMT UNIVERSITY, MEERUT, UP, INDIA.

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PINE BIOTECH, New Orleans, Los Angeles, USA

The two-day Workshop aims towards conduction of training sessions for application of traditional and modern research approaches, Challenges met during Research, Integration of Life Sciences with Big Data and IoT, etc.

Target Audience- Faculties of Life Sciences, Basic Sciences, Computer Science Applications and Computer Science Engineering.

PATRON

Dr. Deepa Sharma
Vice-Chancellor
IIMT University, Meerut

Event Coordinator

Dr. Vatsala Tomar Assistant Professor Department of Botany

Convener

Dr. Navneet Sharma

Dean
School of Life Science & Technology

Date:- 30th & 31st January 2023, Time:- 2:30-04:30 pm

Registration Link



Day 1 Training Session Link



Meeting ID: 865 4362 9359 Passcode: 998437 Day 2 Training Session Link



MeetingID: 865 4362 9359 Passcode: 998437



Faculty Development Workshop | 30 & 31 JAN 2023 | 2:30 PM IST

Training materials, data analysis tools, curated project datasets and interactive sessions for project-based learning for biomedical data science in collaboration with **IIMT** University, Meerut, Pine Biotech USA and OmicsLogic India



Mr. Elia Brodsky, Co-founder and CEO Pine Biotech, USA



Dr. Mohit Mazumder,Partnerships and Project Mentor
Pine Biotech, USA



Prof. (Dr.) Deepa Sharma
Vice Chancellor,
IIMT University,
Meerut, India



Dr. Vatsala Tomar,
Assistant Professor,
School of Life Science and Technology
IIMT University, Meerut



INDUSTRY ACADEMIA PARTNERSHIP



BIG DATA ANALYSIS



STUDENT CAPACITY



GRANTS & PUBLICATIONS

Big Data | **Genomics** | Transcriptomics | **Metagenomics** | Epigenomics | Precision **Medicine** | **Infectious** Diseases | **Health** Informatics | **Cheminformatics** | Data Science | **Machine Learning & Al for Biology** | **R & Python** for Biomedical Data Analysis and Data Management & Analysis

Online Coursework

The Omics Logic curriculum follows a project-based, student-centred learning model.
Introductory courses are divided into modules based on beginner, intermediate and advanced levels.
Application of analytical methods is illustrated in projects that can be adapted for personalized, inquiry-based research experiences. The logic of analysis is contextualized by embedding analytical concepts into biological projects (Data Analysis, Management, Visualization).

DATE: 30 JAN & **31** JAN

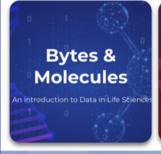
IIMT University Faculty Workshop

























Big **DATA** in Biology: Bioinformatics & Data Science: **Machine** Learning & **Deep**Learning

- *** BIG DATA Analysis**
- * Data Science
- * Precision Medicine
- * Infectious Diseases
- * NeuroScience
- ***** Space OMICS
- * Agrobiology
- * Al & Drug Discovery

Omics Logic **Project Based Training**

DATE: 30 JAN & 31 JAN

IIMT University Faculty Workshop



















PRECISION









OMICSLOGIC | COLLABORATION

Bioinformatics and Data Science Training Research Ecosystem for Pine Biotech University partners

Training materials, data analysis tools, curated project datasets and interactive sessions for project-based learning for biomedical data science in collaboration with **IIMT** University. Meerut

This journey begins with identifying an interesting biological research question that can be answered with data. continues with the collection and organization of data, and concludes with students interpreting and drawing conclusions about the data. Projects included in the Omics Logic curriculum can be divided into major applications of bioinformatics:

Oncology, Infectious

and Agriculture.

Diseases, Neuroscience









































Faculty Development Program

Session 1: Introduction and Inauguration of the Faculty Development Program

Session 2: Hands-on activity to apply traditional and modern research approaches

Session 3: Challenges in Handling Human
Diseases with a Novel Approach using
Genomics approach - Human Health & Disease

Session 4: Application of RNA Seq Transcriptomics Data for Human Health and Wellbeing **Session 5:** Application of Metagenomics & Microbiome Data for Human Health and Wellbeing

Session 6: Specialization Tracks & Research in Computational biology Leveraging Public repository and Omics Logic Tools and Resources for Faculty

Session 7: Health Informatics and Cheminformatics for Al-Guided Drug Discovery

Session 8: Faculty-Driven Research Projects - Research Fellowship