PINE.BIO

IIMT UNIVERSITY MEERUT
Transforming Education System, Transforming Lives

UGC Approved
Section 2(f) & 12B

SCHOOL OF LIFE SCIENCE & TECHNOLOGY

IS ORGANISING

TWO DAY FACULTY TRAINING WORKSHOP

UNDER THE MoU SIGNED BETWEEN IIMT UNIVERSITY, MEERUT, UP, INDIA. & 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 & AI for Biology** | **R & Python** for Biomedical Data Analysis and Data Management & Analysis

IIMT University Faculty Workshop

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 MEERUT (U.P.) — UGC Approved Section 2f & 12B

T-BIOPLATFORM BIOINFORMATICS AND DISCOVERY

PINE.BIO OMICS DATA SENSE AND MORE

TAUBER BIOINFORMATICS RESEARCH CENTER

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
- AI & Drug Discovery

Omics Logic **Project Based Training**

DATE : 30 JAN **& 31** JAN

IIMT UNIVERSITY MEERUT (U.P.)

T-BIOPLATFORM BIOINFORMATICS AND DISCOVERY

PINE.BIO OMICS DATA SENSE AND MORE

TAUBER BIOINFORMATICS RESEARCH CENTER

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 Diseases, Neuroscience** and **Agriculture**.

IIMT UNIVERSITY MEERUT (U.P.) UGC Approved Section 2f & 12B

T-BIOPLATFORM BIOINFORMATICS AND DISCOVERY

PINE.BIO OMICS DATA SENSE AND MORE

TAUBER BIOINFORMATICS RESEARCH CENTER

OMICSLOGIC | COLLABORATION

Bioinformatics and Data Science Training

Research Ecosystem for Pine Biotech University partners

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 AI-Guided Drug Discovery

Session 8: Faculty-Driven Research Projects - Research Fellowship