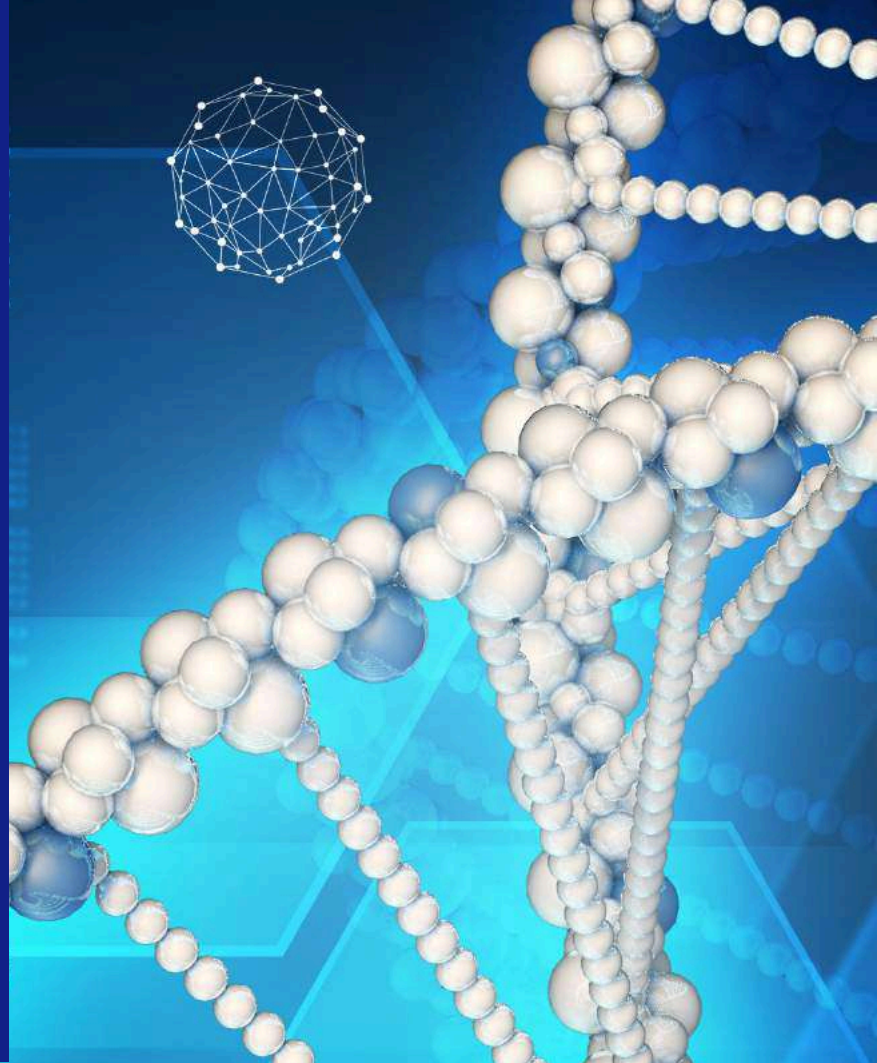




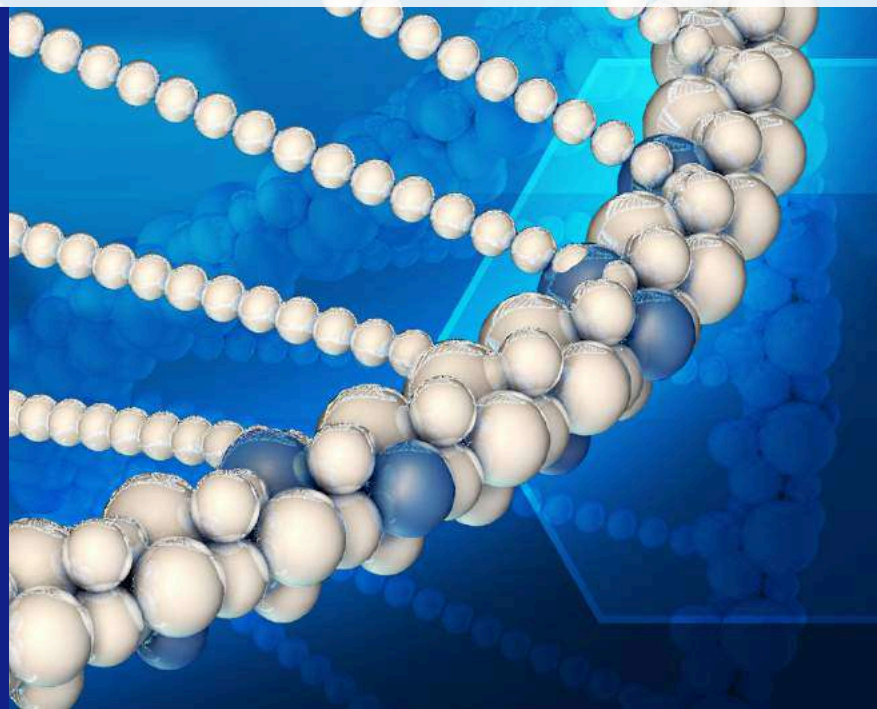
Dr.Omics Labs
The Doctor of your DNA



GeneOmics

4 Weeks Core Course

Genetic Insights: From Theory to Practice



www.dromicsedu.com



Welcome to Dr Omics Labs - Your Gateway to Genomic Excellence!

DrOmics Research Lab, a prominent research facility, offers comprehensive genomics research solutions and Bioinformatics services worldwide from its base in India. Headed by Deepshikha Satish, PhD (Translational Bioinformatics), our team comprises dedicated, keen-eyed, young, and enthusiastic Research Professionals. Our primary goal is to deliver specialized training programs for professionals, PhD, and MSc students in advanced technologies and fields. Our mission is to equip the future generation of scientists with the essential knowledge, skills, and hands-on experience to excel in their research and drive progress in the genomics sector.

Our training programs encompass a range of biotechnology subjects including molecular biology, genomics, proteomics, bioinformatics, and genetic engineering. Through workshops, seminars, hands-on sessions, and collaborative projects, students gain hands-on experience to understand advanced techniques and methodologies in biotech research.

The programs are structured to promote a cooperative and engaging learning atmosphere. Students are urged to join discussions, exchange ideas, and partake in practical experiments. Moreover, mentorship opportunities are available, enabling students to receive advice and assistance from seasoned experts as they progress through their training.

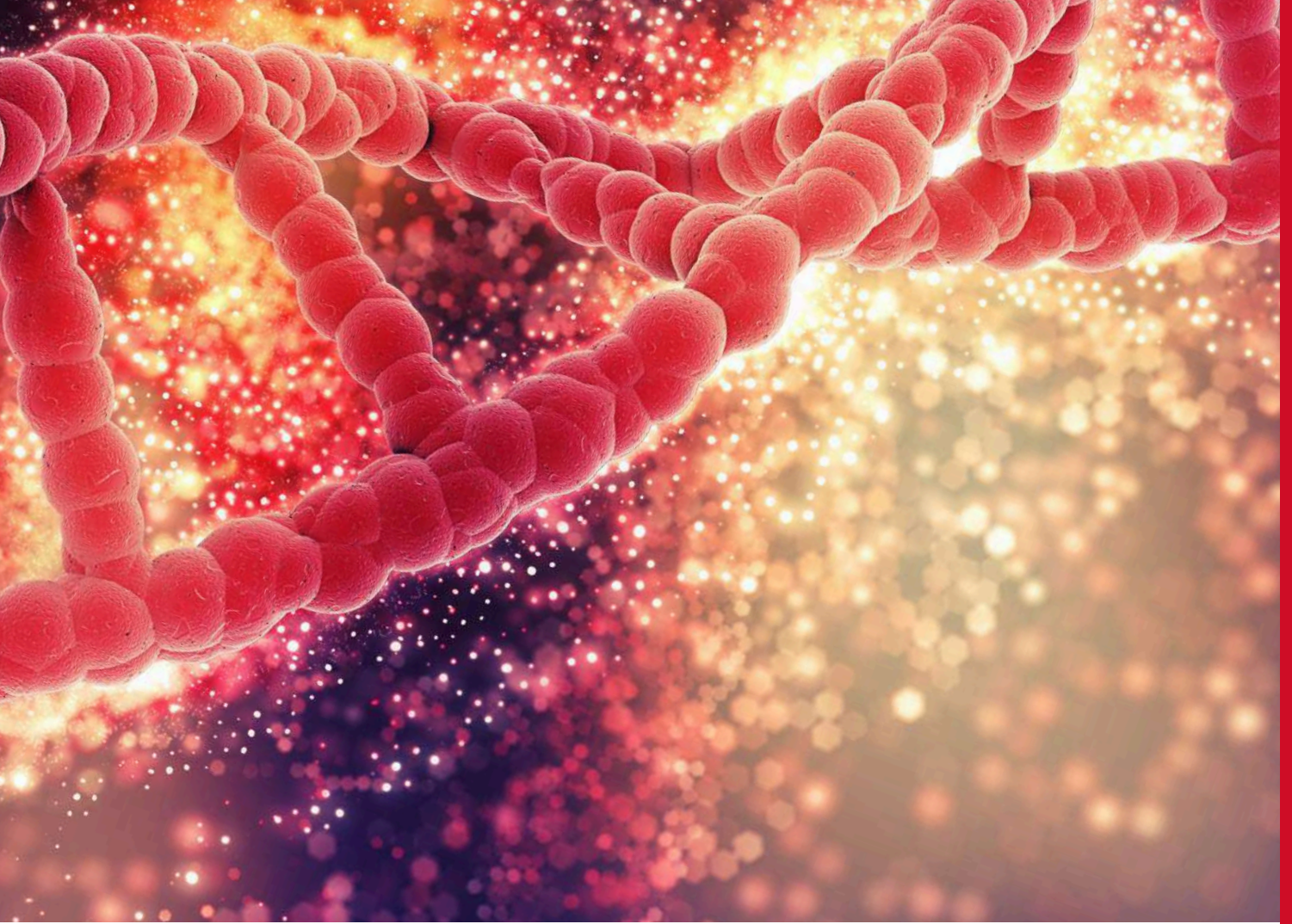




GeneOmics Core Course Highlights

Unlock the world of genomics with our comprehensive 4-week core course designed to provide you with essential skills and expertise. Embark on a transformative learning experience as we delve into cutting-edge modules that lay the foundation for a rewarding journey in genomics.

- DNA basics and genome sequencing.
- Functional genomics and gene regulation.
- Hands-on genomic data analysis.



Course Overview

01

DNaseSeq (variant calling), Annotation

02

Microarray Illumina GSA


Duration: 4 Weeks



Module I: DNaseq (variant calling), Annotation

- Introduction and installation of tools
- Data Retrieval & Quality Check of reads
- Mapping of reads using reference Genome
- Understanding Mapping Output
- Variant detection
- Visualization of variation
- Annotation and variant effect prediction
- Determining effect of coding non-synonymous mutation on protein function ability

Module II: Microarray Illumina GSA

- 
- Understanding Microarray & its techniques
 - Chip designing in Microarray
 - Using R for Microarray Data Analysis
 - Quality control & Normalization
 - Differential Expressional Studies (Up-Regulated & Down-Regulated)
 - Gene Ontology Pathway & Enrichment Analysis
 - Pathway Network analysis (stringDB(PPI) & Cytoscape)
 - Pathway Network Analysis (KEGG Mapper tool for DEG genes)
 - Learn Different plots (Heatmap, volcano plot etc) using R



What Sets Us Apart?

- **Expert Instructors:** Learn from industry professionals and seasoned genomics experts.
- **Experience Hands-on Learning:** with interactive sessions and real-world case studies, gaining practical expertise.
- **Cutting-Edge Curriculum:** Stay ahead with our up-to-date curriculum reflecting the latest advancements in genomics.
- **Networking Opportunities:** Connect with fellow enthusiasts and professionals in the genomics field.

NEED MORE INSIGHT & SUPPORT?

CONTACT US!

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Thank you!



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OUR CERTIFICATIONS & GRANTS

