Dr.Omics Labs
The Doctor of your DNA

DRUG DESIGN MASTERY

A **2-Month** Research Expedition in CADD

WWW.DROMICSEDU.COM

YOUR GO TO

With Dr.Omics Labs

COMPREHENSIVE AND SPECIALIZED TRAINING

- MODULES COVERING KEY AREAS OF COMPUTAIONAL RESEARCH.
- HIGHLY PROFESSIONAL COURSES FOR COMPUTER AIDED DRUG DESIGNING TECHNIQUES & PROGRAMMING FROM BASICS.

EXPOSURE TO INDUSTRY PRACTICES AND INSIGHTS INTO THE COMMERCIAL ASPECTS OF BIOTECH RESEARCH

- AN INDUSTRIAL LEVEL COURSE DESIGN.
- COVERING EVERY TOPIC REQUIRED FOR COMPUTATIONAL DRUG DESIGNING & PROVIDING HANDS-ON PRACTICE DURING SESSION

MENTORSHIP FROM INDUSTRY EXPERTS AND RENOWNED RESEARCHERS.

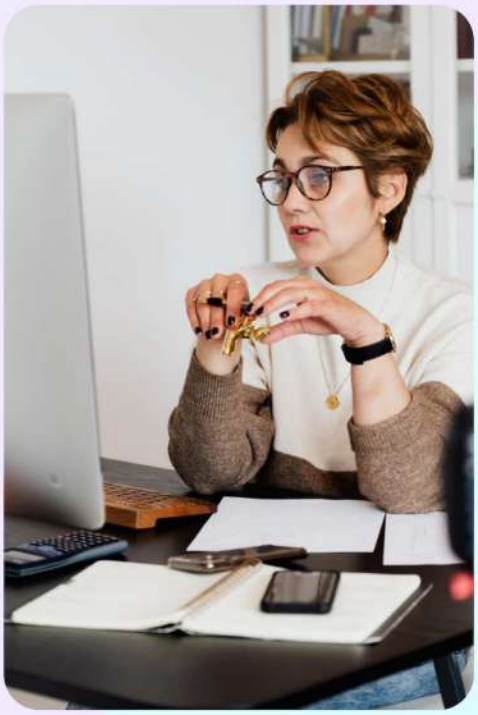
- LIVE LEARNING WITH HANDS-ON PRACTICAL EXPERIENCE, UNDERSTANDING USAGE OF BIOINFORMATICS DATABASES IN REAL-TIME.
- IDENTIFY DRUG TARGETS, ANALYZE MOLECULAR DOCKING AND BINDING MODES,INVESTIGATE DRUG REPOSITIONING AND DESIGN NEW DRUGS.

NETWORKING

- OPPORTUNITY TO CONNECT WITH PEERS, INDUSTRY PROFESSIONALS, AND POTENTIAL COLLABORATORS.
- A COLLABORATIVE AND INTERACTIVE LEARNING ENVIRONMENT THAT FOSTERS CREATIVITY AND INNOVATION.

CADD: Research Oriented Course

"Explore the forefront of proteomics and bioinformatics with our CADD Research Oriented Course at Dr.Omics Labs. Gain hands-on expertise in drug designing techniques and MD Simulation, propelling your career or research to new heights in the field of proteomics."



Important tip

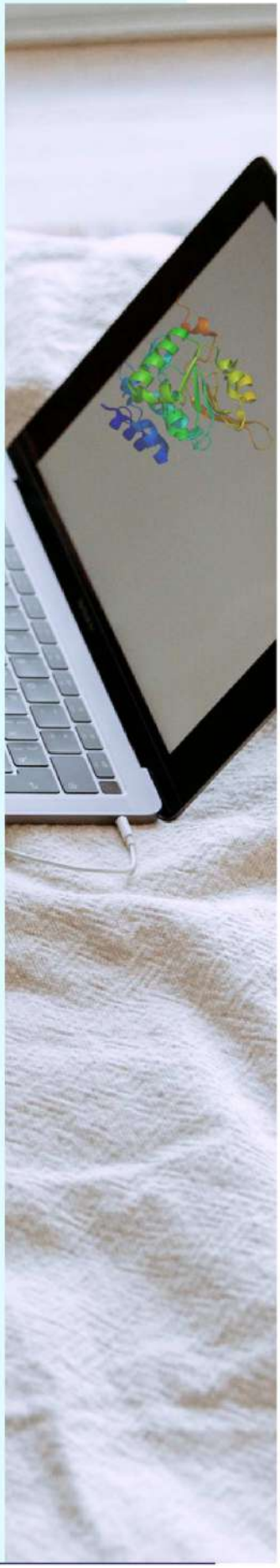
"Select a topic that really interests you and join our research-oriented course made for passionate learners. Our flexible schedule is made to fit your time."

A 6-Month CADD Research Journey:

A CADD (Computer-Aided Drug Design) research-oriented course offers a comprehensive exploration of computational methods used in drug discovery. Students delve into molecular modeling, ligand-receptor interactions, and virtual screening, equipping them with valuable skills to contribute to pharmaceutical research. This course fosters a deep understanding of the intersection between chemistry, biology, and cutting-edge computational tools.

COURSE OVERVIEW

Computer Aided Drug Design (CADD)



- **Introduction to Drug Discovery and Computer Aided Drug Design**
  - Overview of drug discovery process
  - Role of computational methods
  - Hands-on: Introduction to ChemDraw or ChemSketch for chemical structure visualization.
- **Molecular Biology Fundamentals for Drug Design**
  - Biomolecules and their properties
  - Structure of proteins and ligands
  - Hands-on: Utilize PyMOL or Swiss -PdbViewer for protein structure visualization.
- **Molecular Modeling Techniques**
  - Molecular visualization tools
  - Molecular mechanics and dynamics simulations
  - Hands-on: Use PyMOL, UCSF Chimera, or VMD for molecular visualization.
- **Chemical Informatics and Virtual Screening**
  - Chemical databases and data mining
  - Ligand and structure-based virtual screening
  - Hands-on: Explore tools like PubChem for chemical data and Autodock Vina for virtual screening

Program Structure

- **Duration: 2 months**

Gain expertise in CADD techniques

1.5 Months of In-Depth Learning

- Molecular modeling
- Virtual screening
- Drug-target interaction analysis
- Pharmacokinetics and pharmacodynamics

FREQUENTLY ASKED QUESTIONS

Q: Are these courses suitable for those new to the field without prior experience?

A: Yes, our courses are designed to cater to beginners with no prior experience in the field. We provide foundational content suitable for all skill levels.

Q: Will I receive a certification upon completing the course?

A: Absolutely, a digital certificate will be awarded upon course completion. You'll receive this certificate via email.

Q: Do the courses include practical projects and research opportunities?

A: Certainly, our courses incorporate practical projects and research opportunities to ensure hands-on learning and the practical application of acquired knowledge.

Q: Can I access class recordings if I miss a class?

A: Yes, class recordings are available. We'll send you the recording link via email if you miss a class, typically on the day following the live session.

Q: Can I continue to access course materials and resources after finishing the course?

A: Absolutely, you'll retain access to course materials and resources even after completing the course. These materials will be shared with you via email or WhatsApp.

TERMS AND CONDITIONS

- Maintaining Discipline during the Tenure.
- It is mandatory to maintain 85% attendance for all students.
- Students must maintain an average ‘A2’ grade throughout their training period.

Need more insight & support?

CONTACT US!

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Thank you!

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OUR CERTIFICATIONS & GRANTS

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