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A 12-day Online Computational Drug Discovery Masterclass

PROTAC ARCHITECT™

"The future of targeted protein degradation is here.
Are you ready to be part of it?"

Register Now

6 weekends (Sat & Sun, 3 hours/day) starting from June 28th 2025,

Technology Partner

Colaberry

About FABA

The Federation of Asian Biotech Associations (FABA) is a non-profit organization established in 2004 for providing a platform for academy, industry, and government bodies. FABA has launched the FABA academy to bridge the gap between academy and industry in human resources development by providing professional development programs to science graduates (https://biofaba.org.in/).

About CaiRL

The Collaborative AI Research Labs Foundation is a pioneering initiative dedicated to advancing artificial intelligence through collaboration, innovation, and ethical development. Founded in Hyderabad, India, our foundation bridges academia, industry, and government to address some of the world's most pressing challenges through AI. (www.cairl.org)

About PROTAC:

- PROTACs (Proteolysis Targeting Chimeras) represent the cutting edge of therapeutic development—degrading disease-causing proteins instead of merely inhibiting them.
- This revolutionary approach is creating unprecedented opportunities for professionals with computational skills.

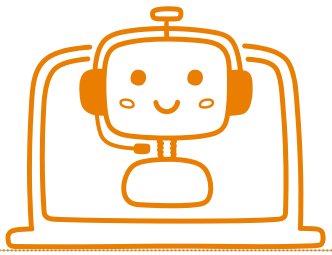
Who Should Attend:

- Early-career researchers in medicinal chemistry and biology
- Computational scientists transitioning to drug discovery
- Software engineers seeking to enter pharmaceutical R&D
- Anyone looking to master the PROTAC computational pipeline

Course Format:

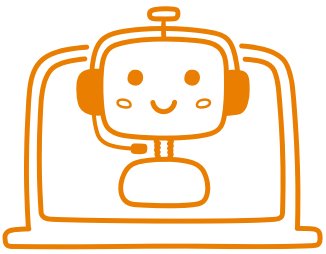
6 weekends (Sat & Sun, 3 hours/day) , **Virtual/Online**

Program Schedule (6 Weeks | Sat & Sun Only) | Online



Day, Date and Time	Topic	
Week 1 – Refresher Session		
Saturday, June 28, 2025 10 AM - 1 PM IST	Python & Jupyter, Basics for Drug Discovery	Mr. Neil Gogte
Sunday, June 29, 2025 10 AM -1 PM IST	Basic Molecular, Biology Concepts for Computational Drug Discovery	Proteins & Genes – What they are and why they matter Protein Sequences (FASTA Format) & 3D Structures (PDB Format) Ligands & Small Molecules (SMILES Format) PROTAC Mechanism Overview Target protein (why it is selected) E3 ligase (how it aids degradation) Linker design (importance in PROTAC efficiency)
Week 2 – Foundations of Drug Discovery & Computational Biology		
Saturday, July 5, 2025 10 AM - 1 PM IST	Introduction to Drug Discovery	Drug Discovery Pipeline: Target Identification → Hit Discovery → Lead Optimization Traditional vs. Modern Approaches by Dr.Velarkad Viswanadhan Role of PROTACs and their rise in targeted protein degradation
Sunday, July 6, 2025 10 AM -1 PM IST	Digital Biology for CS & Biology Audiences	• Basics of SMILES, molecules as graphs • Introduction to ADMET & its importance by Dr.John Dibella President, Simulations Plus • Python crash course (Jupyter, NumPy, RDKit basics) • Deep Learning intro for Biologists and Chemists • Real-world case studies where CS meets drug discovery

Program Schedule (6 Weeks | Sat & Sun Only) | Online



Week 3 – PROTACs: Biology, Chemistry & Deep Learning Applications		
Saturday, July 12, 2025 10 AM - 1 PM IST	PROTAC Fundamentals	Mr. Neil Gogte
Sunday, July 13, 2025 10 AM - 1 PM IST	Deep Learning for PROTACs (Motivation & Basics)	• Traditional approaches (rule-based, docking, QSAR) by Dr. Kolli Sarath • Limitations of traditional models by Dr. Kolli Sarath • Why DL? by Dr. Kolli Sarath • Overview of DL models applied to PROTACs (classification, regression) by Dr. Kolli Sarath • Peptide and Macrocyclic design and optimisation using free energy perturbation methods by Dr.Velarkad Viswanadhan
Week 4 – Deep PROTAC: Predicting Efficacy with Deep Learning		
Saturday, July 19, 2025 10 AM -1 PM IST	Model Architecture Deep Dive	Mr. Neil Gogte
Sunday, July 20, 2025 10 AM -1 PM IST	Full Workflow Explanation	Ms. Sanjana Gogte
Week 5 – DiffPROTAC: Diffusion Models for Linker Generation		
Saturday, July 26, 2025 10 AM -1 PM IST	Diffusion Models Primer	Mr. Ajay Bhandari
Sunday, July 27, 2025 10 AM -1 PM IST	Applying Diffusion to Linkers	Dr. Srilakshmi
Week 6 – De Novo PROTAC Design & Emerging Modalities		
Saturday, August 2, 2025 10 AM -1 PM IST	Generative Models for Molecule Design	Mr. Ajay Bhandari
Sunday, August 3, 2025 10 AM -1 PM IST	PROTAC-Specific Generation + NextGen Modalities	Mr. Ajay Bhandari

Register Now

https://biofaba.org.in/protac-registration.php

Expert Speakers:

Mr. Neil Gogte
Founder and Chairman, Keshav Memorial Institute of Technology & Neil Gogte Institute of Technology

Dr.Velarkad Viswanadhan
VP - Computational Chemistry, Molecular Solutions

Dr. John DiBella
President, PBPK & Cheminformatics, Molecular Solutions

Dr. Kolli Sarath
CEO, Boltzmann Labs

Mr Ajay Bhandari
Researcher, Drugparadigm

Dr. R. Srilakshmi
Associate Professor, Neil Gogte Institute of Technology

Ms. Sanjana Gogte
Researcher, Drugparadigm

Registration Fees:

Rs. 3000 for Students (Bachelors, Masters, PhD Scholars)
Rs. 5000 for Researchers (PhDs / Postdocs/ Faculties)
Rs. 10000 for Industry Professionals

Register Now

https://biofaba.org.in/protac-registration.php

Limited seats available to ensure hands-on attention

For more details contact Dr. T N G Sharma, Senior Manager, FABA at +91 7989957263 or write to us at info@biofaba.org.in

Transform your computational skills into practical drug discovery expertise