



COMPUTATIONAL BIOLOGY FOR BIOCHEMICAL EXPERIMENTS

(CUSTOMIZED SOLUTIONS FOR YOUR RESEARCH NEEDS)



Dear Researcher,

- Do you require computationally analyzed results for biological and chemical research?
- Have you felt that computational analysis is too expensive? That you can't afford that you really need for your research?
- Do you belong to innovative research domain of Chemistry/ Biology/ Biochemistry/ Molecular biology/ Biotechnology/ Drug-Designing/ Novel molecule identification/ Lead-optimization like areas?

If you do, then CBBE can overcome your research problems. It is committed to ensure an innovative support to biochemical research community by addressing the worldwide need for customized computational analysis, technical support and innovative ideas generation for researcher defined problem.

CBBE: 'Computational Biology for Biochemical Experiments' is a Government (Indian) registered (UP50D0003373) firm for providing customized computational support in the area of 'Experimental/in-silico Bio-chemical Research'. It provides customized solutions in a vast area of research.

Here are **FOUR QUICK REASONS** how CBBE can enhance your research.

- Customized solutions for your research need.
- Minimal work charges.
- Well documented & detailed results.
- CBBE never claims for IPR of work done, i.e. no claim in manuscript/ patent/ copyright etc.

To know more about CBBE, please do take a look at the attached brochure. Or even better, get in touch via phone or email.

Sincerely,



Coordinator, CBBE

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- BROCHURE -

Novel Research Zone (Scientist Specific)

Unravel Research Loopholes	CBBE can support you for identifying NEW (unsolved Research Loopholes) research problems from your own biochemical research domain.
Solution for your Own Research Problem	CBBE provides possible/ estimated solution for your own customized problem/ query from Bio-Chemical research domain.
Designing of Research Plan	CBBE supports for designing of research plan in the area of biochemical research.

Chemistry Zone

About unsynthesized compound	Estimate the activity range (SAR based) against target/ cell line, before synthesis.
About SAR content of your compound	Know about existing SAR (Structure-Activity-Relation) content in your compound under study.
Ligand-Protein interaction (Docking)	Know about Ligand-Protein interaction information about your compound against specific target.
Mechanism of action	Trace the possible cell-signalling pathway/s (before experimental validation) as mechanism of action of synthesized/ designed compound/s.
Target identification	Identify the possible target/s (before experimental validation) as possible action site of your synthesized/ designed compound/s.

Biology Zone

Cell Signaling/ Molecular Biology	Search, what is unexplored in your own working area/ research domain?
Tissue culture (Media optimization modeling)	Tissue culture condition optimization modeling for experimental validation.
Tissue culture condition optimization modeling for experimental validation.	Tissue culture condition optimization modeling for experimental validation.
Pathway mapping	Trace the possible cell-signalling pathway/s (before experimental validation) as mechanism of action of synthesized/ designed compound/s.
Agricultural Biology	Computation Biology for Agricultural studies including 'Mode of Action', 'Sequence Analysis', Modeling etc.

Script Writing (Software Zone)

Script (R / Python / Java)	CBBE provides 'computational program script (R / Python / Java) writing' as solution for customized problem from your research domain. Researchers from area of computer added drug designing, sequence (gene/protein) analysis, data analysis etc. can apply their ideas in form of application (online/ offline) for providing research component/s in public domain.
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Writing Support

Technical writing support	Along with scientific support, you can also avail the technical writing about the study/ work. Besides this, CBBE also supports in review/ research content writing at pre-publication stage (you can customize it according to your intellectual).
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- CBBE Catalogue -

Area	Service Code	Description
Sequence Analysis	CB1	Sequence to Structure modeling
	CB2	Sequence Annotation
Drug Discovery	CB3	Docking (Ligand-Protein)
	CB4	QSAR modelling & screening
	CB5	SAR analysis & screening
	CB6	Distance based pharmacophore
	CB7	ADME
	CB8	Lead identification
	CB9	Lead optimization
	CB10	De-novo compound generation
	CB11	Molecular Dynamics (Gromacs) (Ligand-Protein)
	CB12	Ligand Libraries Designing
Modelling of in-vitro experiment	CB13	Computational Biology for in-vitro
System Biology	CB14	System modelling
Software Development	CB15	Application development
Protocol/ Method Development	CB16	Algorithm Development
Data Survey	CB17	Data mining
Writing	CB18	Script writing
	CB19	Scientific writing of research and review manuscripts
Other Studies	CB20	As per requirement of customer

- CBBE-*edu* at your place -

Area	Service Code	Description
Lectures in Bioinformatics	BILec1	Bioinformatics Workshop Lectures on Computational Drug Designing
	BILec2	Other topics in Bioinformatics as per Organizer's plans

Institute must provide infrastructure facilities