

TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY  
**BIOINFORMATICS CENTRE & ARIS CELL**  
MADRAS VETERINARY COLLEGE, CHENNAI-600 007

Sl. No.	Bioinformatics <i>In Silico</i> Analysis	Time(Minute) Approx.	Time(hour) Approx.	Fees (excluding GST)
<b>I</b>	<b>Receptor and Ligand Structure for unknown data</b>			
	Target identification	480	8	Rs.4000
	Protein and ligands Structure retrieval	30	½	Rs.500
	Side chain modeling, Homology modeling for unknown structures	60	1	Rs.500
	In situ optimization, Energy minimization	30	½	Rs.500
	Protein structure validation and refinement	60	1	Rs. 500
	Ligand structure building	30	½	Rs. 500
	Drug likeliness	30	½	Rs. 500
	Pharmacokinetic (ADME)	30	½	Rs. 500
	Pharmacodynamic	30	½	Rs. 500
	Calculation molecular properties, Energy calculation	30	½	Rs. 500
<b>II</b>	<b>Receptor and Ligand Structure for known data</b>			
	Target identification	480	8	Rs. 4000
	Protein and ligands Structure retrieval	30	½	Rs. 500
	Side chain modeling, Homology modeling for unknown structures	60	1	Rs. 500
	In situ optimization, Energy minimization	30	½	Rs. 500
	Protein structure validation and refinement	60	1	Rs. 500
	Ligand structure building	30	½	Rs. 500
	Drug likeliness	30	½	Rs. 500
	Pharmacokinetic (ADME)	30	½	Rs. 500
	Pharmacodynamic	30	½	Rs. 500
	Calculation molecular properties, Energy calculation	30	½	Rs. 500
<b>III</b>	<b>Molecular docking</b>			
	Protein -ligand docking	120	2	Rs. 1000
	Protein - Protein docking	120	2	Rs. 1000
	DNA- protein interaction	120	2	Rs. 1000
	Result analysis: Interaction visualization	60	1	Rs. 500
<b>IV</b>	<b>Virtual screening</b>			
	Target- Ligand docking (upto 10 ligands)	480	8	Rs. 4000

	per targets)			
	Target- Ligand docking (above 10 ligands)	1440	24	Rs.12000
	DNA - Protein interaction	480	8	Rs. 4000
<b>V</b>	<b>Network pharmacology</b>			
	Molecular interaction annotation	1440	24	Rs.12000
	complete model ( interaction between into Gene DNA, protein, Ligand)	1440	24	Rs.12000
<b>VI</b>	<b>Pathway analysis</b>			
	Complete data set of genomic annotation	300	5	Rs. 2500
	Disease profiling	240	4	Rs. 2000
<b>VII</b>	<b>Phylogenetic analysis</b>	120	2	Rs. 1000
<b>VIII</b>	<b>QSAR</b>			
	QSAR modeling of active compounds	300	5	Rs. 2500
	SAR analysis	300	5	Rs. 2500
<b>IX</b>	<b>Vaccine development</b>			
	Putative epitope design	120	2	Rs. 1000
	Vaccine toxicity analysis, antigenicity, efficacy prediction	120	2	Rs. 1000
	Antibiotic resistance surveillance	120	2	Rs. 1000
<b>X</b>	<b>Primer design</b>	120	2	Rs. 1000
<b>XI</b>	<b>Microarray data analysis</b>	480	8	Rs. 4000
<b>XII</b>	<b>Sequencing</b>			
	DNA sequence assembling and Building a nucleic acid	240	4	Rs. 2000
	Variant detection, SNP annotation, Mutation studies	240	4	Rs. 2000
<b>XIII</b>	<b>Animal and Veterinary sciences</b>			
	Identifying novel genes & protein to enhance breed type	180	3	Rs. 1500
	Proteomic, genomic development of Canine, cattle breed	480	8	Rs. 4000
	Cross breed genomics, disease resistance	180	3	Rs. 1500