TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

BIOINFORMATICS CENTRE

MADRAS VETERINARY COLLEGE, CHENNAI-600 007

Sl. No.	Bioinformatics *In Silico* Analysis	Time(Minute) Approx.	Time(hour) Approx.	Fees (excluding GST)
I	**Receptor and Ligand Structure for unkown data**			
	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
II	**Receptor and Ligand Structure for known data**			
	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
III	**Molecular docking**			
	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

IV	**Virtual screening**			
	Target- Ligand docking (upto 10 ligands per targets)	480	8	Rs. 4000
	Target- Ligand docking (above 10 ligands)	1440	24	Rs.12000
	DNA - Protein interaction	480	8	Rs. 4000
V	**Network pharmacology**			
	Molecular interaction annotation	1440	24	Rs.12000
	complete model (interaction between into Gene DNA, protein, Ligand)	1440	24	Rs.12000
VI	**Pathway analysis**			
	Complete data set of genomic annotation	300	5	Rs. 2500
	Disease profiling	240	4	Rs. 2000
VII	**Phylogenetic analysis**	120	2	Rs. 1000
VIII	**QSAR**			
	QSAR modeling of active compounds	300	5	Rs. 2500
	SAR analysis	300	5	Rs. 2500
IX	**Vaccine development**			
	Putative epitope design	120	2	Rs. 1000
	Vaccine toxicity analysis, antigenicity, efficacy prediction	120	2	Rs. 1000
	Antibiotic resistance surveillance	120	2	Rs. 1000
X	**Primer design**	120	2	Rs. 1000
XI	**Microarray data analysis**	480	8	Rs. 4000
XII	**Sequencing**			
	DNA sequence assembling and Building a nucleic acid	240	4	Rs. 2000
	Variant detection, SNP annotation, Mutation studies	240	4	Rs. 2000
XIII	**Animal and Veterinary sciences**			
	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