SRM UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY DEPARTMENT OF BIOINFORMATICS

BI0312- IMMUNOINFORMATICS LABORATORY

Semester: VI Course: Immunoinformatics Laboratory

Sub Code: BI0312 Staff Handling: Ms.P.Rathi Suganya,

Mrs.Priya Swaminathan, Dr.Lilly M. Saleena

Hrs/Week: 2

Practical sessions	Topic	Learning outcome
1	Immuno informatics – Epitope prediction	
2	Target recognition & Domain analysis	Objective is to find a vaccine
3	MHC-I binding sites predictions using BIMAS for genome polyprotein	candidate for a causative protein
4	MHC-I binding sites predictions using BIMAS for domain sequence	Using online tools epitopes
5	MHC-I binding sites predictions using SYFPHEITI for genome polyprotein	recognized by various MHC I and MHCII molecules are
6	MHC-I binding sites predictions using SYFPHEITI for domain sequence	recognized
7	Proteosome cleavage prediction	• The most Promiscuous
8	MHC-II binding sites predictions	epitopes are suggested as good
9	Promiscuous regions predictions	vaccine candidates
10	Domain modeling using swiss model	
11	Sequential epitope prediction using swiss pdb viewer	
12	Conformational epitope prediction using swiss pdb viewer	

REFERENCE BOOK

• Lab Manual

E Mail ID

lmsaleena@ktr.srmuniv.ac.in - 9840506562 rathisuganya@ktr.srmuniv.ac.in - 9840796846 priyas@ktr.srmuniv.ac.in -9382711503