## **Supplementary Materials**

## **Supplementary Figures**



Fig S1. (a) Snapshot of membrane system of Porin embedded in bilayer lipid of DMPC, and the structure over view and it is seen in cylindrical shape; (b) view of Porin from extracellular side of pore channel.



Fig S2. Identification of three potential targets through stringent filtration process



Fig S3: Potential energy trajectory showing lowest potential energy dip; (a) Potential energy plot showing the lowest potential structure of PvlArgDC; (b) Potential energy plot showing the lowest potential structure of RecO; (c) Potential energy plot showing the lowest potential structure Porin

## **Supplementary Tables**

**Table S1.** Physicochemical descriptors for ADME based on QikProp for top hits from virtual screening of NCI and Maybridge data sets

Potential targets	Ligand	MolWt	Volume	SASA	Dipole	HB dono r	HB Accept or	Qlog BB	PSA	Metab	Human Oral absorpti on	Rule of Five	Rule of three
PvlArgD C	NSC_13086	263.422	1024.242	568.40 8	1.577	1	2.75	0.514	19.948	4	3	0	0
	NSC_525651	272.475	679.243	423.01 8	1.936	2.25	5.25	-0.845	119.765	0	3	0	0
RecO	MFCD00276409	462.52	1466.83	850.71 3	11.872	2.25	7.75	-3.595	185.528	4	1	0	2
	NSC_159881	407.314	1201.324	699.78 1	4.121	2	5.2	-0.86	73.582	3	1	0	1
Porin	MFCD05662003	354.459	1008.804	586.76 7	11.225	4	7	-2.037	128.706	7	2	0	2
	MFCD01567048	437.931	1150.277	615.13	5.005	0	5.25	0.139	47.453	4	3	0	0