

Table S1. ABCB1-inhibitors retrieved from the literature and recently reported leads [1] [2] [3] [4] [5] [6] along with their IC₅₀, pIC₅₀ values, clogP, LipE, molecular weight and number of heavy atoms. *NA (Not Active), *ND (Not Determined). Cs A, cyclosporine A ; Tar, tariquidar; Ela, Elacridar; Zos, Zosuquidar.

Compound s	IC ₅₀ [μM]			pIC ₅₀			clogP	LipE			Weight	heavy atom	Refer ences
	ABCB 1	ABCG 2	ABCC1	ABCB 1	ABCG 2	ABCC1		ABCB1	ABCG 2	ABCC1			
1A	0.78	NA	NA	6.11	ND	ND	4.37	1.74	ND	ND	533.64	39	[1]
2A	0.30	NA	NA	6.52	ND	ND	5.19	1.33	ND	ND	567.71	42	[1]
3A	0.70	NA	NA	6.15	ND	ND	5.56	0.59	ND	ND	505.64	38	[1]
4A	0.70	NA	NA	6.15	ND	ND	4.13	2.02	ND	ND	531.63	39	[1]
5A	1.04	NA	NA	5.98	ND	ND	4.02	1.96	ND	ND	507.61	37	[1]
6A	0.66	NA	NA	6.18	ND	ND	6.52	-0.34	ND	ND	517.65	39	[1]
7B	1.40	NA	NA	5.85	ND	ND	5.03	0.82	ND	ND	534.63	39	[1]
8B	0.33	NA	NA	6.48	ND	ND	5.83	0.65	ND	ND	568.69	42	[1]
9B	10.00	NA	NA	5.00	ND	ND	6.20	-1.20	ND	ND	506.62	38	[1]
10B	2.00	10	NA	5.70	5	ND	4.57	1.13	0.43	ND	532.61	39	[1]
11B	0.93	17	NA	6.03	4.7	ND	4.74	1.29	-0.04	ND	508.59	37	[1]
12B	1.23	5.9	NA	5.91	5.2	ND	7.49	-1.58	-2.29	ND	518.63	39	[1]
13C	0.68	NA	NA	6.17	ND	ND	4.94	1.23	ND	ND	519.66	38	[1]
14C	0.57	NA	NA	6.24	ND	ND	6.32	-0.08	ND	ND	553.72	41	[1]

15C	0.73	NA	NA	6.14	ND	ND	4.01	2.13	ND	ND	493.62	36	[1]
16C	1.01	NA	NA	6.00	ND	ND	6.96	-0.97	ND	ND	503.67	38	[1]
17D	20.00	ND	>100	4.70	ND	>4	3.50	1.20	ND	>0.5	366.21	22	[4]
18D	7.20	ND	>100	5.14	ND	>4	3.15	1.99	ND	>0.85	378.43	28	[4]
19D	1.40	ND	>100	5.85	ND	>4	4.06	1.79	ND	>-0.06	381.40	28	[4]
20D	1.90	ND	>100	5.72	ND	>4	3.19	2.53	ND	>0.81	420.47	31	[4]
21D	0.57	ND	>100	6.24	ND	>4	4.10	2.14	ND	>-0.1	408.41	30	[4]
22D	17.30	ND	>100	4.76	ND	>4	2.01	2.75	ND	>1.99	416.45	29	[4]
23D	6.80	ND	6.1	5.17	ND	5.21	2.63	2.54	ND	2.58	409.40	30	[4]
24D	2.60	ND	2.5	5.59	ND	5.60	1.69	3.90	ND	3.91	420.37	30	[4]
25D	0.20	ND	>100	6.70	ND	>4	4.07	2.63	ND	>-0.07	452.42	33	[4]
26D	0.60	ND	>100	6.22	ND	>4	3.55	2.67	ND	>0.45	450.45	33	[4]
27D	24.30	ND	11.2	4.61	ND	4.95	3.40	1.21	ND	1.55	498.49	36	[4]
28D	0.40	ND	>100	6.40	ND	>4	4.13	2.27	ND	>-0.13	408.41	30	[4]
29D	1.30	ND	>100	5.89	ND	>4	4.06	1.83	ND	>-0.06	378.38	28	[4]
30D	6.60	ND	>100	5.18	ND	>4	4.61	0.57	ND	>-0.61	378.38	28	[4]
31D	1.50	ND	>100	5.92	ND	>4	4.92	1.00	ND	>-0.92	394.43	29	[4]
32D	2.00	ND	>100	5.70	ND	>4	3.12	2.58	ND	>0.88	408.41	30	[4]
33D	14.10	ND	30.0	4.85	ND	4.52	3.67	1.18	ND	0.85	353.35	26	[4]
34D	3.50	ND	>100	5.46	ND	>4	2.38	3.08	ND	>1.62	365.36	27	[4]

35E	0.05	ND	15.1	7.30	ND	4.82	5.05	2.25	ND	-0.23	515.63	38	[3]
36I	1.51	37.90	ND	5.82	4.42	ND	3.64	2.18	0.72	ND	342.46	25	[5]
37I	1.70	33.50	ND	5.77	4.47	ND	4.23	1.54	0.24	ND	356.49	26	[5]
38I	0.80	30.70	ND	6.10	4.51	ND	4.38	1.72	0.13	ND	368.50	27	[5]
39I	1.56	31.90	ND	5.81	4.50	ND	4.61	1.20	-0.11	ND	326.46	24	[5]
40I	0.65	36.40	ND	6.19	4.44	ND	4.85	1.34	-0.41	ND	383.53	28	[5]
41I	0.65	15.20	ND	6.19	4.82	ND	5.06	1.13	-0.24	ND	399.57	29	[5]
42I	3.01	37.30	ND	5.52	4.43	ND	4.23	1.29	0.20	ND	385.55	28	[5]
43I	0.27	4.62	ND	6.57	5.34	ND	5.27	1.30	0.07	ND	462.57	34	[5]
44I	0.09	13.90	ND	7.05	4.86	ND	5.49	1.56	-0.63	ND	478.61	35	[5]
45I	0.79	14.10	ND	6.10	4.85	ND	4.79	1.31	0.08	ND	434.51	32	[5]
46I	113.00	440.00	ND	3.95	3.36	ND	1.39	2.56	1.97	ND	293.36	21	[5]
47I	5.83	34.00	ND	5.23	4.47	ND	2.96	2.27	1.51	ND	370.47	27	[5]
48I	3.60	47.10	ND	5.44	4.33	ND	3.82	1.62	0.51	ND	354.47	26	[5]
49I	1.79	600.00	ND	5.75	3.22	ND	2.01	3.74	1.17	ND	370.47	27	[5]
50I	0.68	58.80	ND	6.17	4.23	ND	2.58	3.59	1.65	ND	384.50	28	[5]
51I	0.16	98.30	ND	6.80	4.01	ND	3.65	3.15	0.36	ND	432.54	32	[5]
52I	0.39	3.30	ND	6.41	5.48	ND	6.11	0.30	-0.63	ND	479.62	36	[5]
53I	5.50	4.21	ND	5.26	5.38	ND	4.45	0.81	0.93	ND	375.47	28	[5]
54I	9.61	1.50	ND	5.02	5.82	ND	4.97	0.05	0.85	ND	433.50	32	[5]

A	0.001	ND	ND	8.82	ND	ND	3.13	5.69	ND	ND	374.49	28	[6]
D	0.019	ND	ND	7.72	ND	ND	2.35	5.37	ND	ND	388.38	27	[6]
E	0.01	ND	ND	8	ND	ND	1.99	6.01	ND	ND	352.38	26	[6]
F	0.003	ND	ND	8.42	ND	ND	2.53	5.89	ND	ND	450.41	30	[6]
CsA	1.2	26.1	6.6	5.92	4.58	5.18	14.36	-7.37	ND	ND	1202	85	[7] [8]
Tar	0.03	0.9	NA	7.48	6.05	ND	5.55	1.93	ND	ND	646.47	48	[9]
Ela	0.07	10	NA	7.14	5.0	ND	4.21	2.93	ND	ND	563.60	42	[9] [1]
Zos	0.05	ND	ND	7.23	ND	ND	4.96	2.27	ND	ND	527.00	39	[9]

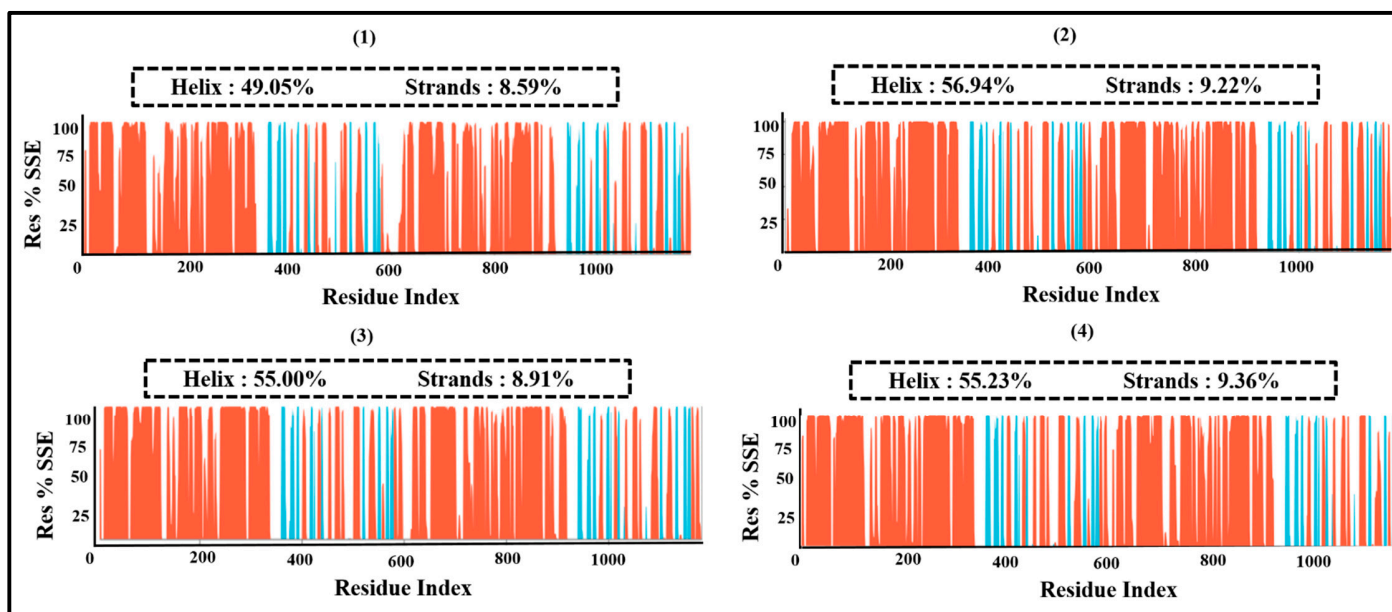


Figure S1. Protein Secondary Structure Elements (SSE) like helices and strands are scrutinized throughout the simulation of 100 ns. The plot above reports percentage SSE distribution by residue index throughout the protein structure. (1) 'ABCB1-A' complex; (2) 'ABCB1-D' complex; (3) 'ABCB1-E' complex; (4) 'ABCB1-F' complex along with the percentage of helices and strands, displayed with the plot of each complex.

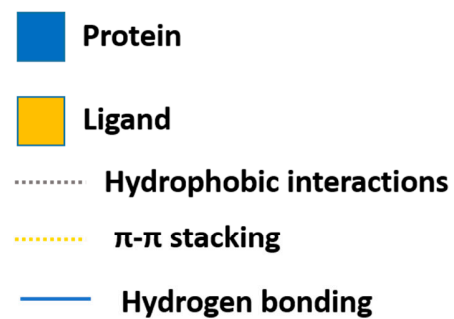
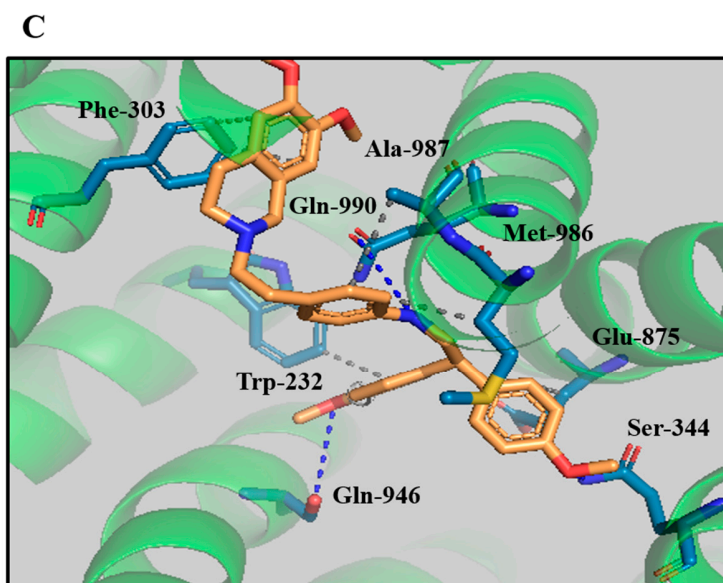
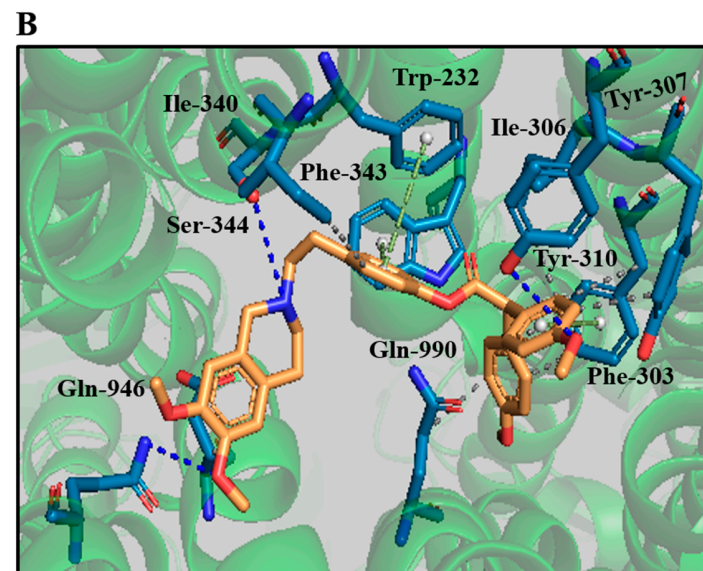
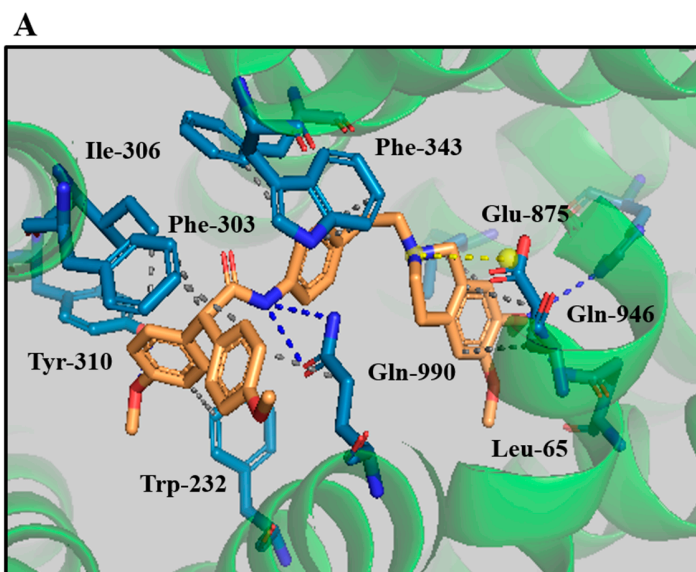
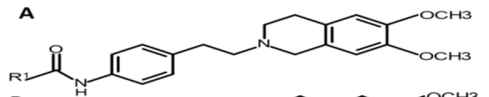
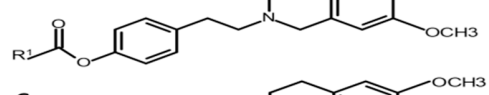
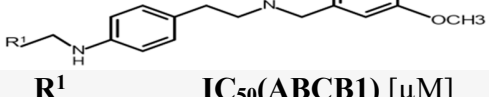
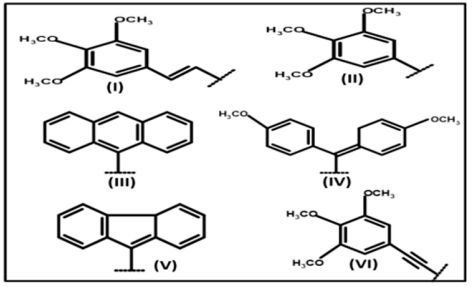


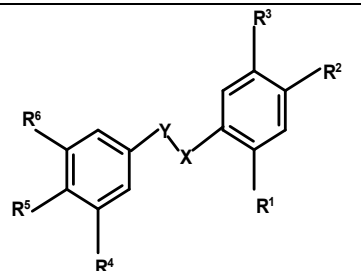
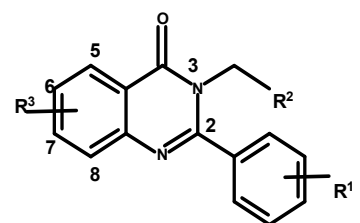
Figure S2. Compounds and the interacting residues are shown in stick form. **(A)** Compound '2A' showed hydrophobic interactions with Leu-65, Trp-232, Phe-303, Ile-306, Glu-875, and Gln-990 while hydrogen bonding with Tyr-310, Gln-946, and Gln-990 **(B)** Compound '8B' showed hydrophobic interactions with Phe-303, Ile-306, Tyr-307, Ile-340, and Gln-990, hydrogen bonding with Tyr-310, Ser-344 and Gln-946 and π stacking with Trp-232, Phe-303 and Phe-343. **(C)** Compound '14C' showed hydrophobic interactions with Leu-65, Trp-232, Phe-303, Glu-875, Met-986, Ala-987 while hydrogen bonding with Ser-344, Gln-946 and Gln-990.

Table S2. The derivatives of 6,7-dimethoxy-2-phenethyl-1,2,3,4-tetrahydroisoquinoline with the substituent groups at R¹ and activity values against ABCB1 and ABCC1 [1].

<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="text-align: center;"> <p>A</p>  <p>B</p>  <p>C</p>  </div> <div style="text-align: center;"> <p>R¹</p>  </div> </div>					
Compounds	Scaffold	R ¹	IC ₅₀ (ABCB1) [μ M]	IC ₅₀ (ABCC1) [μ M]	IC ₅₀ (ABCG2) [μ M]
1A	A	I	0.78	Not Active	Not Active
2A	A	IV	0.30	Not Active	Not Active
3A	A	V	0.70	Not Active	Not Active
4A	A	VI	0.70	Not Active	Not Active
5A	A	II	1.04	Not Active	Not Active
6A	A	III	0.66	Not Active	Not Active
7B	B	I	1.40	Not Active	Not Active
8B	B	IV	0.33	Not Active	Not Active
9B	B	V	10	Not Active	Not Active

10B	B	VI	2.0	Not Active	10
11B	B	II	0.93	Not Active	17
12B	B	III	1.23	Not Active	5.9
13C	C	I	0.68	Not Active	Not Active
14C	C	IV	0.57	Not Active	Not Active
15C	C	II	0.73	Not Active	Not Active
16C	C	III	1.01	Not Active	Not Active

Table S3. The galloyl benzamide derivatives with the substituent groups at with the different substituent at R¹, R², R³, R⁴, R⁵, R⁶, X and Y position along with the activity values against ABCB1 and ABCC1 [4] [3].

<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>(D)</p> </div> <div style="text-align: center;">  <p>(E)</p> </div> </div>										
Compounds	X	Y	R ¹	R ²	R ³	R ⁴	R ⁵	R ⁶	IC ₅₀ (ABC B1) [μM]	IC ₅₀ (ABCC1 [μM])
17D	NH	CO	H	Br	H	OCH ₃	OCH ₃	OCH ₃	20	>100
18D	NH	CO	NH ₂	Ph	H	OCH ₃	OCH ₃	OCH ₃	7.2	>100
19D	NH	CO	F	Ph	H	OCH ₃	OCH ₃	OCH ₃	1.4	>100
20D	NH	CO	NHCOCH ₃	Ph	H	OCH ₃	OCH ₃	OCH ₃	1.9	>100
21D	NH	CO	NO ₂	H	Ph	OCH ₃	OCH ₃	OCH ₃	0.57	>100
22D	NH	CO	NO ₂	2-thienyl	H	OCH ₃	OCH ₃	OCH ₃	17.3	>100

23D	NH	CO	NO ₂	3-pyridyl	H	OCH ₃	OCH ₃	OCH ₃	6.8	6.1
24D	NH	CO	NO ₂	3,5-difluorophenyl	H	OCH ₃	OCH ₃	OCH ₃	2.6	2.5
25D	NH	CO	NO ₂	Benzo[1,3]dioxol-5-yl	--	OCH ₃	OCH ₃	OCH ₃	0.2	>100
26D	NH	CO	NO ₂	3-acetophenyl	H	OCH ₃	OCH ₃	OCH ₃	0.6	>100
27D	NH	CO	NO ₂	3,4,5-(OCH ₃) ₃ Ph	H	OCH ₃	OCH ₃	OCH ₃	24.3	11.2
28D	NH	CO	H	3-nitrophenyl	H	OCH ₃	OCH ₃	OCH ₃	0.4	>100
29D	NH	CO	NO ₂	Ph	H	H	OCH ₃	OCH ₃	1.3	>100
30D	NH	CO	NO ₂	Ph	H	OCH ₃	H	OCH ₃	6.6	>100
31D	NH	CH ₂	NO ₂	Ph	H	OCH ₃	OCH ₃	OCH ₃	1.5	>100
32D	CO	NH	NO ₂	Ph	H	OCH ₃	OCH ₃	OCH ₃	2.0	>100
33D	NH	CO	F	Ph	H	OH	OH	OCH ₃	14.1	30
34D	NH	CO	NO ₂	Ph	H	H	OCH ₃	OH	3.5	>100
35E	-	-	4-N(CH ₃) ₂	2-ethyl-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline	8- OCH ₃	-	-	-	0.05	15.1

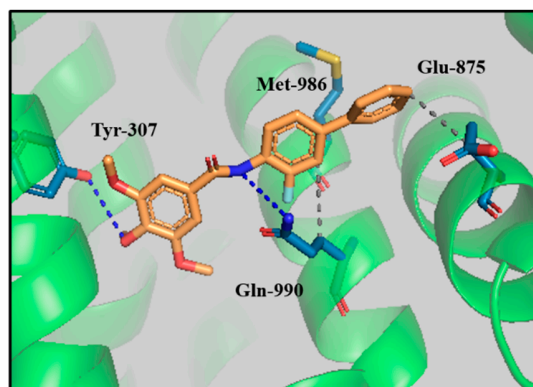
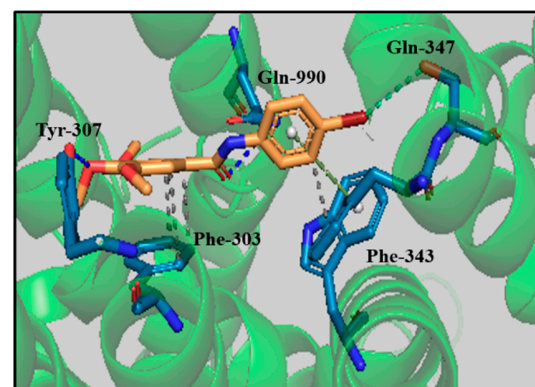
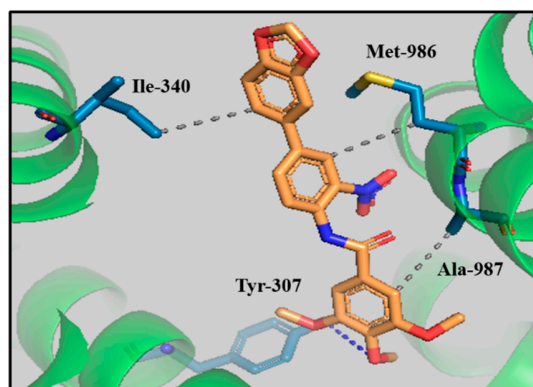
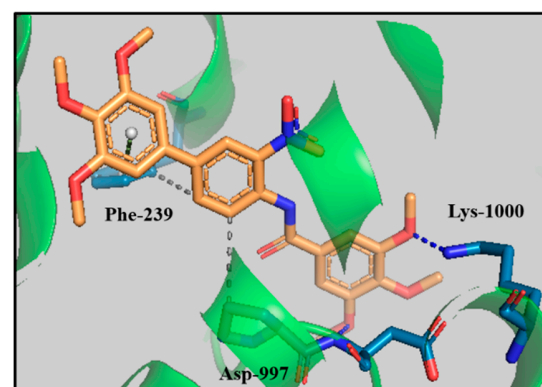
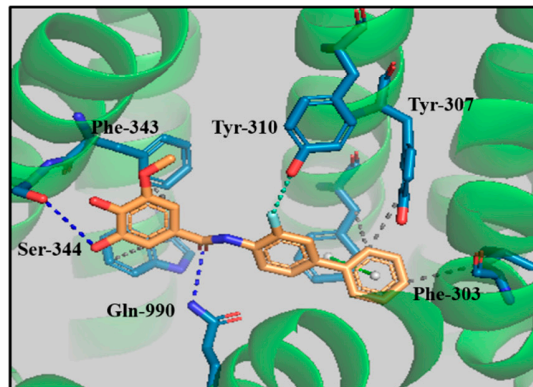
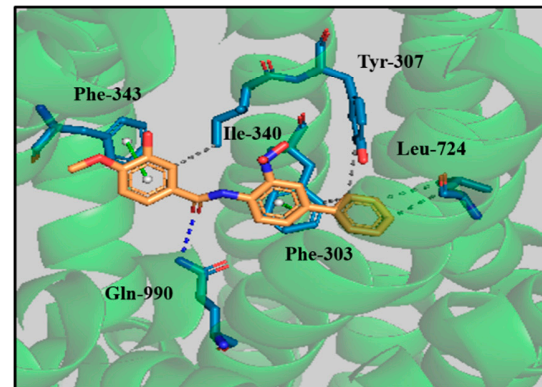
A**B****C****D****E****F**

Figure S3. Compounds and interacting residues are shown in stick form. **(A)** Compound '19D' showed hydrophobic interactions with Glu-875, Gln-990, and Met-986 while hydrogen bonding with Tyr-307 and Gln-990 **(B)** Compound '17D' showed hydrophobic interactions with Phe-303, Tyr-307, and Gln-347, hydrogen bonding with Gln-990 and π stacking with Phe-343. **(C)** Compound '25D' showed hydrophobic interactions with Ile-340, Met-986 and Ala-987 while hydrogen bonding with Tyr-307. **(D)** Compound '27D' showed hydrophobic interactions with Phe-239 and Asp-997 while hydrogen bonding with Lys-1000. **(E)** Compound '33D' showed hydrophobic interactions with Phe-303, Tyr-307, Phe-343 and Ser-344 while hydrogen bonding with Gln-990 and π stacking with Tyr-310. **(F)** Compound '34D' showed hydrophobic interactions with Phe-303, Ile-340, Phe-343, and Leu-724 while hydrogen bonding with Gln-990.

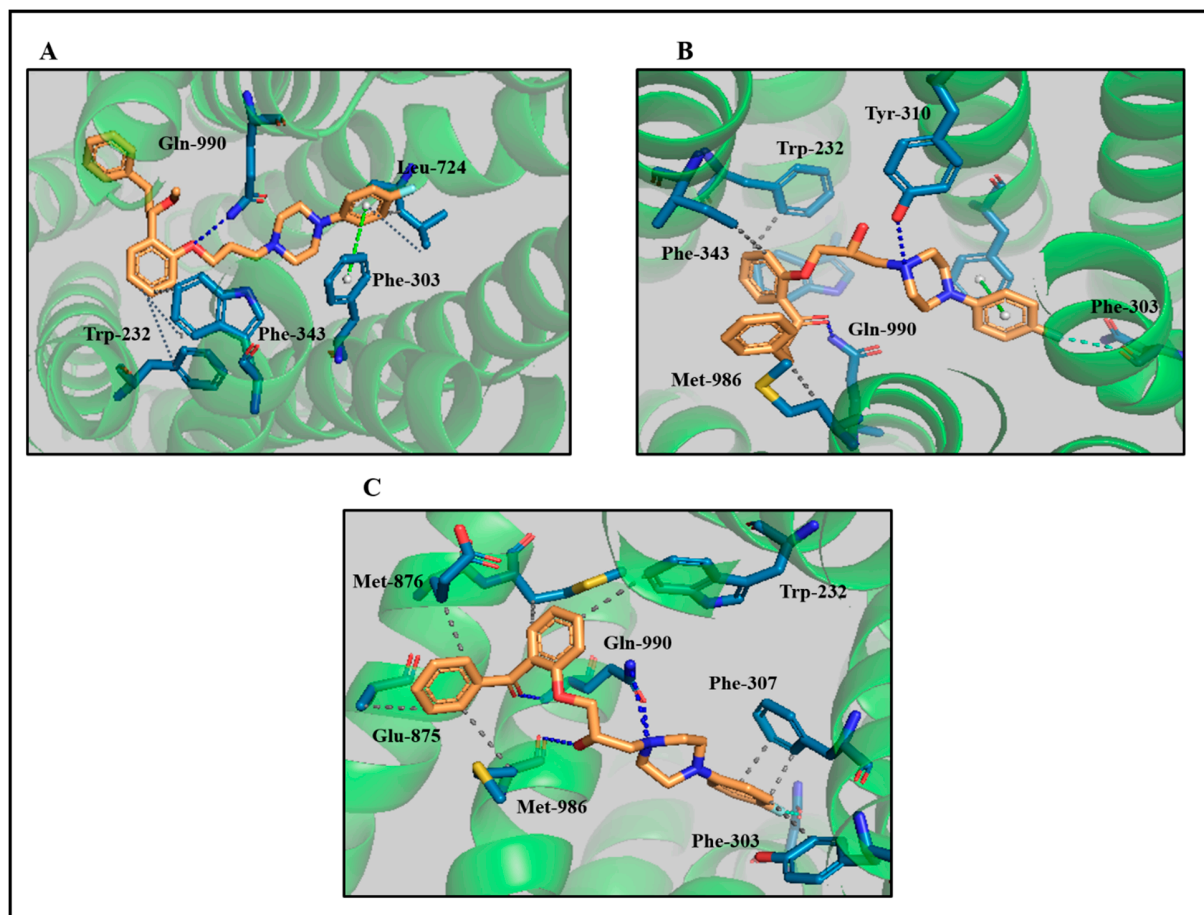
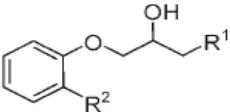
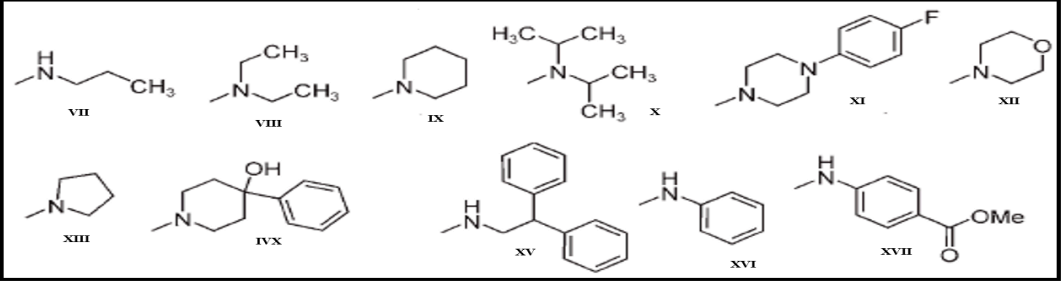


Figure S4. Compounds and interacting residues are shown in stick form. **(A)** Compound '44I' showed hydrophobic interactions with Trp-232, Phe-343, and Leu-724 while π stacking with Phe-303 and hydrogen bonding with Gln-990. **(B)** Compound '43I' showed hydrophobic interactions with Trp-232, Tyr-310, Phe-343, Met-986, and Met-876, hydrogen bonding with Gln-990 and Phe-303. **(C)** Compound '45I' showed hydrophobic interactions with Trp-232, Phe-303, Phe-307, Met-986, and Gln-990 while hydrogen bonding with Gln-990.

Table S4. Structure and activity data of derivatives of propafenone with the substituent groups at R1 and R2 along with their IC₅₀ values for ABCB1 and ABCG2.

<div style="text-align: center;">  </div>					
(R¹)					
<div style="display: flex; justify-content: space-around; align-items: center;">  </div>					
Compounds	R ¹	R ²	IC ₅₀ (ABCB1) [μ M]	IC ₅₀ (ABCG2) [μ M]	
36I	VII	COCH ₂ CH ₂ Ph	1.51	37.9	
37I	VIII	COCH ₂ CH ₂ Ph	1.70	33.5	
38I	IX	COCH ₂ CH ₂ Ph	0.80	30.7	
39I	IX	CH ₂ Ph	1.56	31.9	
40I	X	COCH ₂ CH ₂ Ph	0.65	36.4	
41I	X	CH(OCH ₃)CH ₂ C	0.65	15.2	
42I	X	H ₂ Ph			
42I	X	CH(OH)CH ₂ CH ₂ P	3.01	37.3	
43I	XI	h			
43I	XI	COCH ₂ CH ₂ Ph	0.27	4.62	

44I	XI	CH(OCH ₃)CH ₂ C H ₂ Ph	0.09	13.9
45I	XI	COPh	0.79	14.1
46I	XII	COCH ₂ CH ₃	113	440
47I	XII	COCH ₂ CH ₂ Ph	5.83	34.0
48I	XIII	COCH ₂ CH ₂ Ph	3.60	47.1
49I	IVX	COCH ₃	1.79	600
50I	IVX	COCH ₂ CH ₃	0.68	58.8
51I	IVX	COPh	0.16	98.3
52I	XV	COCH ₂ CH ₂ Ph	0.39	3.30
53I	XVI	COCH ₂ CH ₂ Ph	5.50	4.21
54I	XVII	COCH ₂ CH ₂ Ph	9.61	1.50

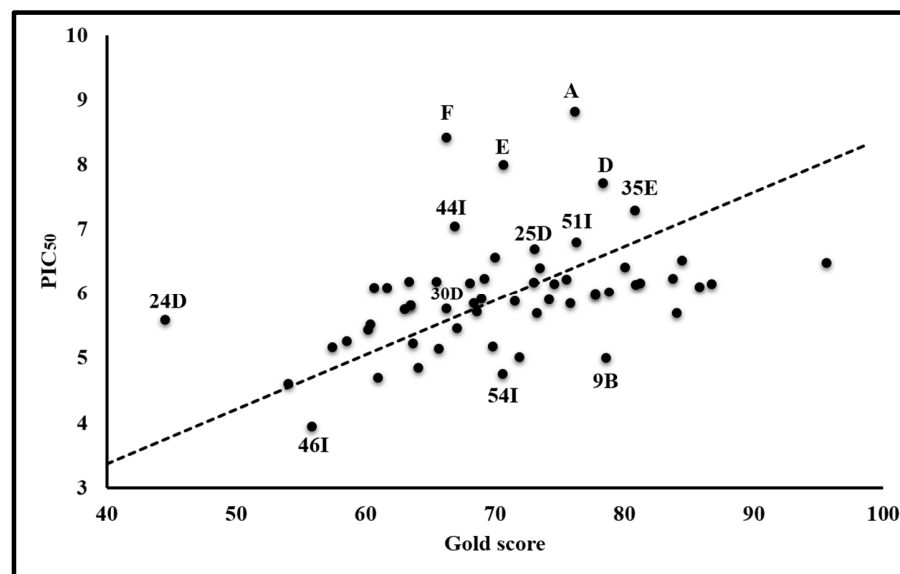


Figure S5. Correlation of inhibitory potency of the dataset (expressed as pIC₅₀ values) and Gold score, calculated by docking analysis using Gold software.

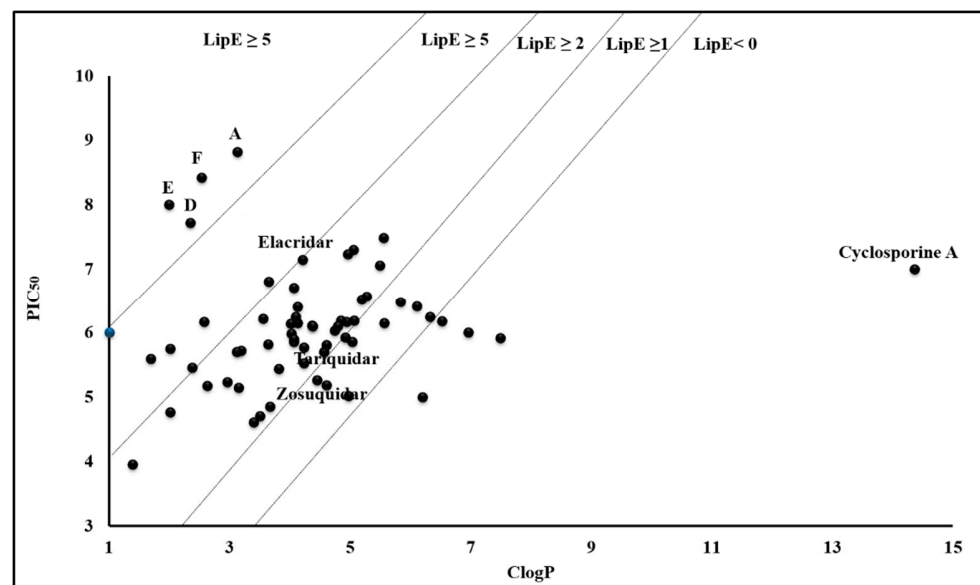


Figure S6. Plot of clogP vs biological activity of the ABCB1-inhibitors dataset and lead compounds along with ; LipE greater than or equal to 5 is considered the threshold for compounds of clinical interest.

Table S5. Comparison of ligand-protein interactions of lead compounds 'A', 'D', 'E', and 'F' complexed with ABCB1 at 0 ns and after 100 ns of MD simulations.

Protein-ligand complexes	Before MD simulations			After MD simulations		
	Hydrophobic	Hydrogen bonding	π stacking	Hydrophobic	Hydrogen bonding	π stacking
A-ABCB1	Leu-65 (3.8 Å)		-	Leu-65 (3.8 Å)		-
	Ile-340 (3.6 Å)	Glu-875 (2.1 Å)	-	Ile-340 (3.6 Å)	Glu-875 (2.1 Å)	-
	Phe-343 (3.9 Å)	-	-	Phe-343 (3.9 Å)	-	-
	Ala-871 (3.9 Å)	-	-	Ala-871 (3.9 Å)	-	-
D-ABCB1	Phe-336 (3.7 Å)	Gln-725 (2.3 Å)	Phe-303 (5.0 Å)	Phe-336 (3.7 Å)	Gln-725 (2.3 Å)	Phe-303 (5.0 Å)
	Leu-339 (3.7 Å)	Gln-990 (2.7 Å)	-	Leu-339 (3.7 Å)	Gln-990 (2.7 Å)	-
	Ile-340 (3.2 Å)	-	-	Ile-340 (3.2 Å)	-	-
	Phe-983 (3.5 Å)	-	-	Phe-983 (3.5 Å)	-	-
	Phe-728 (2.8 Å)			Phe-728 (2.8 Å)		
E-ABCB1	Trp-232 (3.5 Å)	Glu-875 (2.1 Å)	Phe-303 (3.6 Å)	Trp-232 (3.5 Å)	Glu-875 (2.1 Å)	Phe-303 (3.6 Å)
	Phe-303 (3.8 Å)	-	-	Phe-303 (3.8 Å)	-	-

	Tyr-307 (3.8 Å)	-	-	Tyr-307 (3.8 Å)	-	-
	Phe-343 (3.9 Å)	-	-	Phe-343 (3.9 Å)	-	-
	Leu-724 (3.9 Å)	-	-	Leu-724 (3.9 Å)	-	-
F-ABCB1	Trp-232 (4.0 Å)	Glu-875 (2.5 Å)	-	Trp-232 (4.0 Å)	Glu-875 (2.5 Å)	-
	Ile-299 (3.9 Å)	-	-	Ile-299 (3.9 Å)	-	-
	Phe-303 (3.8 Å)	-	-	Phe-303 (3.8 Å)	-	-
	Ile-306 (3.8 Å)	-	-	Ile-306 (3.8 Å)	-	-
	Ile-340 (3.4 Å)	-	-	Ile-340 (3.4 Å)	-	-
	Phe-343 (3.8 Å)	-	-	Phe-343 (3.8 Å)	-	-
	Met-986 (3.9 Å)	-	-	Met-986 (3.9 Å)	-	-
	Gln-347 (1.9 Å)	-	-	Gln-347 (1.9 Å)	-	-

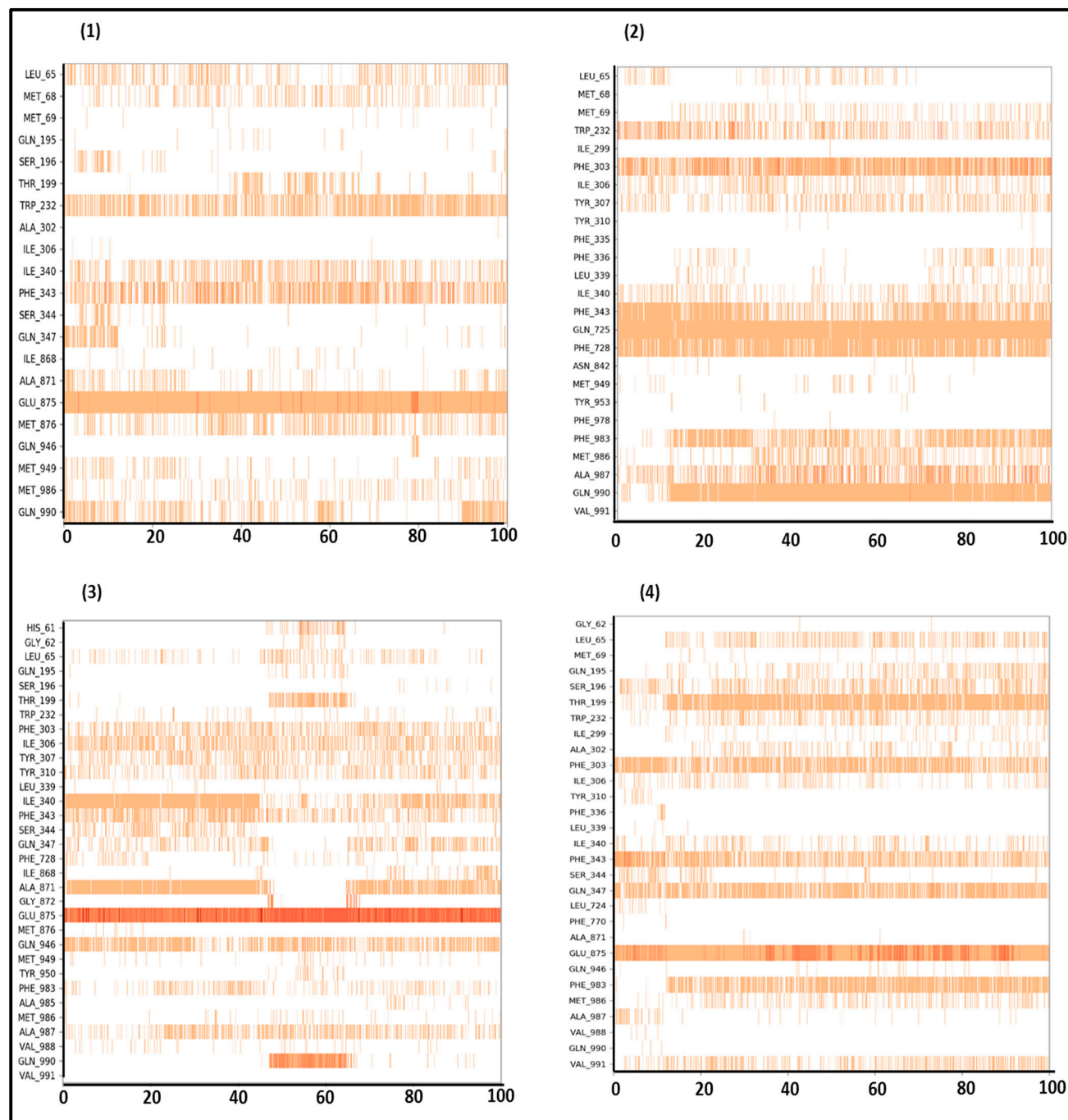


Figure S8. Protein-ligand contacts during simulation period of 100 ns where Y-axis represents interacting amino acids of ABCB1 and X-axis represents time of simulation in ns. (1) Protein-ligand contacts in each trajectory frame during the MD-simulation of 100 ns for lead compound 'A' complex with ABCB1. **(2)** Protein-ligand contacts in each trajectory frame during the MD-simulation of 100 ns for lead compound 'D' complex with ABCB1. **(3)** Protein-ligand contacts in each trajectory frame during the MD-simulation of 100 ns for lead compound 'E' complex with ABCB1. **(4)** Protein-ligand contacts in each trajectory frame during the MD-simulation of 100 ns for lead compound 'F' complex with ABCB1.

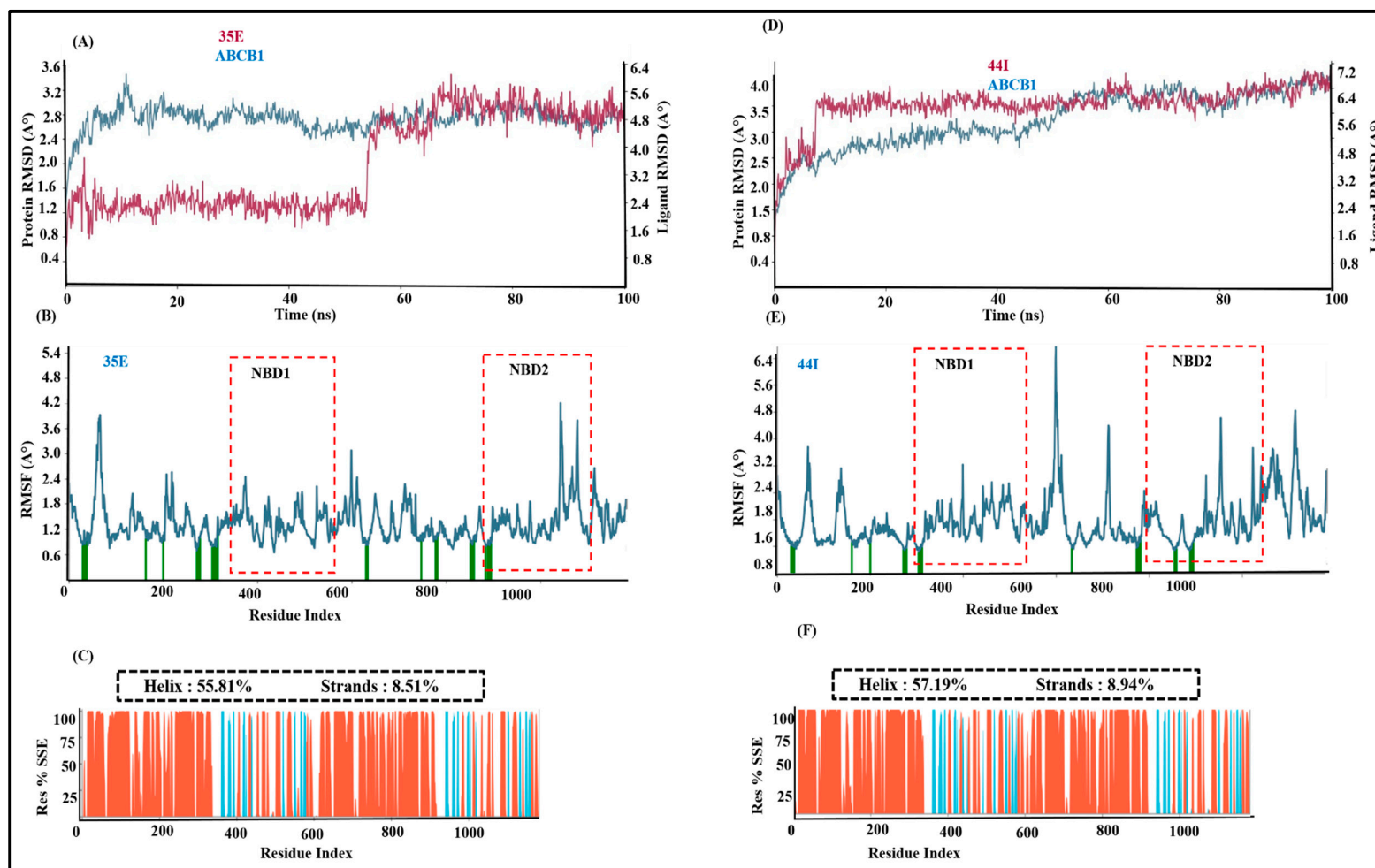


Figure S9. (A) RMSD of '35E-ABCB1' complex, (B) RMSF of '35E-ABCB1' complex. (C) SSE plot of '35E-ABCB1' complex. (D) RMSD of '44I-ABCB1' complex, (E) RMSF of '44I-ABCB1' complex. (F) SSE plot of '44I-ABCB1' complex.

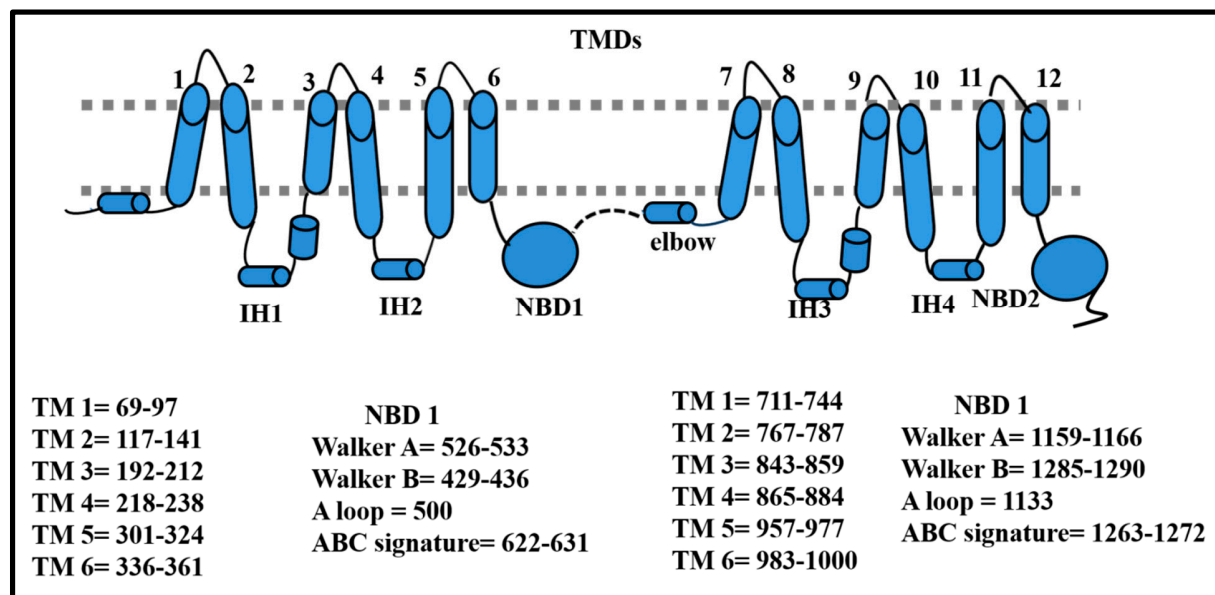


Figure S10. Structural topology of ABCB1 ,consisting of two trans membrane domains (TMD s)and two nucleotide binding domains (NBDs) along with the amino acids numbers.

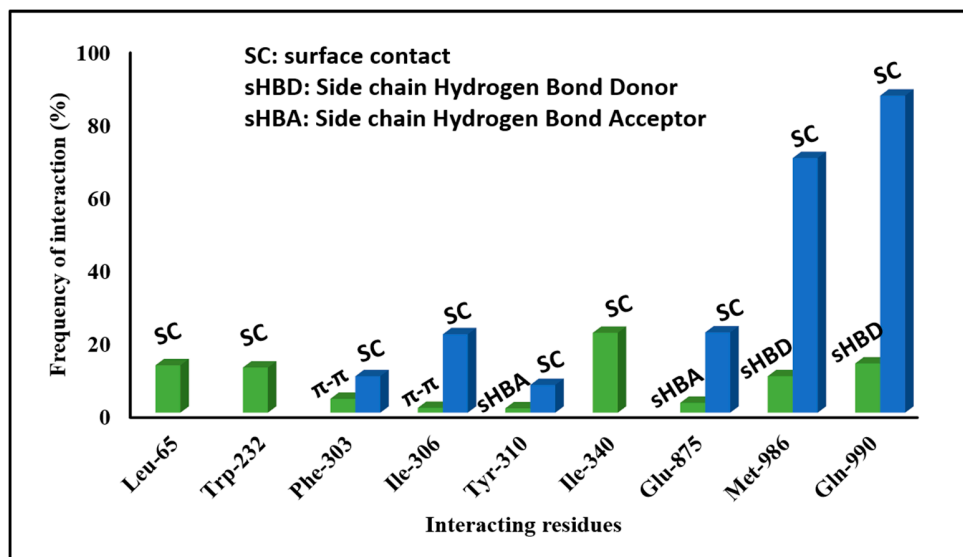


Figure S11. A population histogram based upon the interaction frequency of the ligands and the receptor protein. Most of the residues formed surface contact (hydrophobic and π - π interaction) whereas, some were involved in side-chain hydrogen bond donor and acceptor interactions. Blue and green color bars are just for the presentation of different nature of interaction of the same amino acids.

References

1. Teodori, E.; Dei, S.; Bartolucci, G.; Perrone, M.G.; Manetti, D.; Romanelli, M.N.; Contino, M.; Colabufo, N.A. Structure–Activity Relationship Studies on 6, 7-Dimethoxy-2-phenethyl-1, 2, 3, 4-tetrahydroisoquinoline Derivatives as Multidrug Resistance Reversers. *ChemMedChem* **2017**, *12*, 1369-1379.
2. Jabeen, I.; Pleban, K.; Rinner, U.; Chiba, P.; Ecker, G.F. Structure–activity relationships, ligand efficiency, and lipophilic efficiency profiles of benzophenone-type inhibitors of the multidrug transporter P-glycoprotein. *Journal of medicinal chemistry* **2012**, *55*, 3261-3273.
3. Pajeva, I.K.; Globisch, C.; Wiese, M. Combined pharmacophore modeling, docking, and 3D QSAR studies of ABCB1 and ABCC1 transporter inhibitors. *ChemMedChem: Chemistry Enabling Drug Discovery* **2009**, *4*, 1883-1896.
4. Pellicani, R.Z.; Stefanachi, A.; Niso, M.; Carotti, A.; Leonetti, F.; Nicolotti, O.; Perrone, R.; Berardi, F.; Cellamare, S.; Colabufo, N.A. Potent galloyl-based selective modulators targeting multidrug resistance associated protein 1 and P-glycoprotein. *Journal of medicinal chemistry* **2012**, *55*, 424-436.
5. Cramer, J.; Kopp, S.; Bates, S.E.; Chiba, P.; Ecker, G.F. Multispecificity of drug transporters: probing inhibitor selectivity for the human drug efflux transporters ABCB1 and ABCG2. *ChemMedChem: Chemistry Enabling Drug Discovery* **2007**, *2*, 1783-1788.
6. Cheema, Y.; Kiani, Y.S.; Linton, K.J.; Jabeen, I. Identification and Empiric Evaluation of New Inhibitors of the Multidrug Transporter P-Glycoprotein (ABCB1). *International Journal of Molecular Sciences* **2023**, *24*, 5298.
7. Silbermann, K.; Li, J.; Namasivayam, V.; Baltes, F.; Bendas, G.; Stefan, S.M.; Wiese, M. Superior pyrimidine derivatives as selective ABCG2 inhibitors and broad-spectrum ABCB1, ABCC1, and ABCG2 antagonists. *Journal of Medicinal Chemistry* **2020**, *63*, 10412-10432.
8. Xia, C.Q.; Liu, N.; Miwa, G.T.; Gan, L.-S. Interactions of cyclosporin a with breast cancer resistance protein. *Drug metabolism and disposition* **2007**, *35*, 576-582.
9. Kühnle, M.; Egger, M.; Müller, C.; Mahringer, A.; Bernhardt, G.n.; Fricker, G.; König, B.; Buschauer, A. Potent and selective inhibitors of breast cancer resistance protein (ABCG2) derived from the p-glycoprotein (ABCB1) modulator tariquidar. *Journal of medicinal chemistry* **2009**, *52*, 1190-1197.