

Supplementary Table 1. The list of 201 pre-selected potential and known influenza antiviral agents.

	Compound	Cellular target	Supplier	Reference
1.	Obatoclox	Bcl-2-like proteins	Selleck	(1-3)
2.	NVP-AUY922	HSP90	ChemieTek	(4,5)
3.	17-DMAG	HSP90	Selleck	
4.	17-AAG (Geldanamycin)	HSP90	Selleck	
5.	BIIB021	HSP90	Selleck	
6.	Celastrol	HSP90	DTP/NCI	
7.	Paclitaxel	Tubulin	DTP/NCI	(6,7)
8.	Patupilone	Tubulin	LC labs	
9.	ABT-751	Tubulin	Selleck	
10.	Docetaxel	Tubulin	LC labs	
11.	Indibulin	Tubulin	Tocris	
12.	Vinblastine	Tubulin	DTP/NCI	
13.	Vincristine	Tubulin	DTP/NCI	
14.	Ixabepilone	Tubulin	DTP/NCI	
15.	Oncovin	Tubulin	DTP/NCI	
16.	Wiskostatin	N-WASP	Sigma	
17.	Vinorelbine	p38 MAPK	DTP/NCI	(8)
18.	Doramapimod	p38 MAPK	Axon	
19.	S-trityl-L-cysteine	Eg5	DTP/NCI	(9)
20.	Sirolimus	FKBP12/mTOR	DTP/NCI	
21.	Everolimus	mTOR	LC labs	
22.	Temsirolimus	FKBP12/mTOR	LC labs	
23.	OSI-027	mTOR	ChemieTek	
24.	AZD8055	mTOR	ChemieTek	
25.	XL765	mTOR/PI3K	ChemieTek	
26.	PF-04691502	mTOR/PI3K	ChemieTek	
27.	NVP-BEZ235	PI3K	LC labs	(10)
28.	GDC-0941	PI3K	LC labs	
29.	CAL-101	PI3K	ChemieTek	
30.	XL147	PI3K	ChemieTek	
31.	Wortmannin	PI3K	DTP/NCI	
32.	BMS-754807	IGF-1R	ChemieTek	(10)
33.	Carfilzomib	Proteasome	ChemieTek	
34.	Bortezomib	Proteasome	DTP/NCI	
35.	Fasudil	Rho kinase/PKA/PKG/PRK	LC labs	(11)
36.	Bryostatin 1	PKC	Tocris	
37.	Enzastaurin	PKC	LC labs	
38.	Midostaurin	PKC	LC labs	
39.	Ruboxistaurin	PKC	Axon	
40.	Sotrastaurin	PKC	Axon	
41.	UCN-01	PKC	Sigma	
42.	Zoledronic acid	PKC	DTP/NCI	
43.	MK-2206	Akt	ChemieTek	(12)
44.	Alvocidib	Cdk	Selleck	(9,13)
45.	PD 0332991	Cdk	Selleck	
46.	Roscovitine	Cdk	LC labs	
47.	SNS-032	Cdk	Selleck	
48.	MK1775	Wee1	Axon	
49.	AZD 7762	CHK1	Axon	
50.	PF-477736	CHK1	Axon	(13)
51.	TG003	CLK-1	Calbiochem	
52.	BI 2536	PLK-1	Selleck	(13,14)
53.	AT9283	TK	Selleck	
54.	Ponatinib	TK	Selleck	
55.	Sunitinib	TK	DTP/NCI	
56.	Canertinib	TK	LC labs	

57.	Bosutinib	Abl/Src kinases	LC labs	
58.	Saracatinib	Abl/ Src kinases	LC labs	
59.	Danuserib	FGFR1/Abl/Ret/Trka	Selleck	
60.	MLN8237	Aurora A kinase	ChemieTek	
61.	AZD1152-HQPA	Aurora B kinase	ChemieTek	
62.	Berbamine	Bcr-Abl TK	DTP/NCI	
63.	OSI-906	IGF1R/IR	ChemieTek	
64.	Caffeine	ATM/ATR kinase	DTP/NCI	
65.	Dovitinib	FGFR	Selleck	(9)
66.	Celecoxib	COX-2	DTP/NCI	(15,16)
67.	Rofecoxib	COX-2	DTP/NCI	
68.	Apocynin	NOX-2	DTP/NCI	(17)
69.	AS703026	MEK	Selleck	(18)
70.	GSK1120212	MEK	ChemieTek	
71.	RDEA119	MEK	ChemieTek	
72.	ARRY-142886	MEK	Selleck	
73.	Vemurafenib	MEK/B-Raf	ChemieTek	
74.	Gemfibrozil	PPAR α	Sigma	(10,19,20)
75.	APR-246	p53	Tocris	(21)
76.	JNJ 26854165 (Serdemetan)	p53	Selleck	
77.	Pseudourea	p53	DTP/NCI	
78.	YM155	p53	ChemieTek	
79.	Acricidine	NF- κ B/p53	DTP/NCI	
80.	Helena	NF- κ B	DTP/NCI	
81.	Ammonium tetrathiomolybdate	NF- κ B	DTP/NCI	
82.	Midodrine hydrochloride	α -Ars	Sigma	(22)
83.	2-methoxyestradiol	HIF-1 α	DTP/NCI	(23)
84.	Abiraterone	CYP17A1	Selleck	(13)
85.	Pilocarpine	CYP 2A5	DTP/NCI	
86.	Mitotane	CYP3A	DTP/NCI	
87.	Belinostat	HDAC	ChemieTek	(24)
88.	Entinostat	HDAC	LC labs	
89.	CI-994	HDAC	LC labs	
90.	Vorinostat	HDAC	LC labs	
91.	Panobinostat	HDAC	LC labs	
92.	Allopurinol	Xanthine oxidase	DTP/NCI	(25)
93.	Anagrelide	PDE-3/PLA2	DTP/NCI	(26)
94.	Afatinib	EGFR	Selleck	(27,28)
95.	Erlotinib HCl	EGFR	DTP/NCI	
96.	CUDC-101	HDAC/EGFR/HER2	Selleck	
97.	Gefitinib	EGFR	DTP/NCI	
98.	Lapatinib	HER2/EGFR	DTP/NCI	
99.	PD153035	EGRF	Selleck	
100.	Masitinib	RTKS	LC labs	(29-31)
101.	Imatinib	RTKs	DTP/NCI	
102.	Nilotinib	RTKs	LC labs	
103.	Dasatinib	RTKs	LC labs	
104.	Motesanib	RTKs	Selleck	
105.	Sorafenib	RTKs	LC labs	
106.	Axitinib	RTKs	LC labs	
107.	Cediranib	RTKs	DTP/NCI	
108.	Foretinib	RTKs	Selleck	
109.	MGCD-265	RTKs	Selleck	
110.	Pazopanib	RTKs	LC labs	
111.	Vatalanib	RTKs	LC labs	
112.	Regorafenib	RTKs	Selleck	
113.	Tivozanib	RTKs	ChemieTek	
114.	Vandetanib	RTKs	Selleck	

115.	Tandutinib	RTKs	LC labs	
116.	AG-879	RTKs	Enzo	
117.	AC220	Flt3	ChemieTek	
118.	Bimatoprost	PGF synthase	LC labs	(32)
119.	Crizotinib	ALK/c-Met	Selleck	(27)
120.	EMD1214063	c-Met	ChemieTek	
121.	Lestaurtinib	FLT3/JAK2/TrkA/TrkB/TrkC	LC labs	(33)
122.	LY2784544	JAK2	Selleck	
123.	Ruxolitinib	JAK1,2	ChemieTek	
124.	Tasocitinib	JAK3/JAK2(V617F)	LC labs	
125.	Fingolimod	S1PR	LC labs	(34,35)
126.	Fulvestrant	ER	DTP/NCI	(36)
127.	Raloxifene HCl	ER	DTP/NCI	
128.	Tamoxifen citrate	ER	DTP/NCI	
129.	Nilutamide	AR	DTP/NCI	
130.	Flutamide	AR	DTP/NCI	
131.	Goserelin	AR	DTP/NCI	
132.	Aminoglutethimide	Steroids	DTP/NCI	
133.	Methylprednisolone	GR	DTP/NCI	(37,38)
134.	Dexamethasone	GR	DTP/NCI	
135.	Prednisolone	GR	DTP/NCI	
136.	Imiquimod	TLR-7	DTP/NCI	(39,40)
137.	AG-014699	PARP	Axon	(41)
138.	Iniparib	PARP	Axon	
139.	Olaparib	PARP	LC labs	
140.	Veliparib	PARP	Selleck	
141.	Beta-lapachone	PARP	DTP/NCI	
142.	XAV-939	PARP	Selleck	
143.	Pemetrexed	TS, DHFR and GARFT	LC labs	(42)
144.	Plerixafor	CXCR4	Cayman	(43)
145.	Tarenflurbil	γ -secretase	Cayman	(44)
146.	Thalidomide	Caspase 8	DTP/NCI	(45)
147.	Tipifarnib	Farnesyltransferase	Selleck	(46)
148.	Lenalidomide	Immunomodulatory	LC labs	(16)
149.	Glycyrrhizinic acid	Anti-inflammatory	DTP/NCI	
150.	Paracetamol	Anti-inflammatory	DTP/NCI	
151.	Aspirin	Anti-inflammatory	DTP/NCI	
152.	Mesalazine	Anti-inflammatory	DTP/NCI	
153.	Betulinic acid	Anti-inflammatory	DTP/NCI	
154.	3-Methyladenine	Autophagy	DTP/NCI	(47)
155.	Lucanthone	Autophagy	DTP/NCI	
156.	Hycanthone	Acetylcholinesterase	DTP/NCI	(48)
157.	Ribavirin	IMP dehydrogenase	DTP/NCI	(49)
158.	Leupeptin	Protease	DTP/NCI	(50)
159.	Tyrphostin A9	PDGF receptor TK	DTP/NCI	(29)
160.	KN-93	CAMK2B	Sigma	(9)
161.	TOFA	ACC	Enzo	(51)
162.	Piperlongumine	ROS	Indofine	(52)
163.	Vitamin C	ROS	DTP/NCI	
164.	Auranofin	TrxR	DTP/NCI	
165.	Wiscostatin	N-WASP	Sigma	(53)
166.	Hydroxyurea	RNR	DTP/NCI	(54)
167.	Gemcitabine-HCl	RNR/pol	Selleck	
168.	Dactinomycin	RNA pol	DTP/NCI	
169.	Cytarabine HCl	DNA/RNA pol	DTP/NCI	
170.	Nelarabine	DNA/RNA	Sequoia	
171.	Mercaptopurine	DNA/RNA synthesis	DTP/NCI	
172.	Pipobroman	DNA	DTP/NCI.	

173.	Plicamycin	RNA synthesis	DTP/NCI	
174.	NSC401575	RNA synthesis	DTP/NCI	
175.	Doxorubicin HCl	DNA/RNA synthesis	DTP/NCI	
176.	Vitamin B12	DNA synthesis	DTP/NCI	
177.	Daunomycin	DNA/RNA synthesis	DTP/NCI	
178.	Capecitabine	DNA synthesis	LC labs	
179.	Methoxsalen	DNA synthesis	DTP/NCI	
180.	Leflunomide	Pyrimidine biosynthesis	Alexis	
181.	Decitabine	DNA methyl transferase	Selleck	
182.	Azacitidine	DNA methyl transferase	DTP/NCI	
183.	Amonafide	Topoisomerase/DNA	Selleck	
184.	Irinotecan	Topoisomerase I	LC labs	(6,55)
185.	Topotecan	Topoisomerase I	DTP/NCI	
186.	Camptothecin	Topoisomerase I	DTP/NCI	
187.	Thioguanine	Topoisomerase I	DTP/NCI	
188.	Idarubicin	Topoisomerase II	DTP/NCI	
189.	Etoposide	Topoisomerase II	DTP/NCI	
190.	Mitoxantrone	Topoisomerase II	LC labs	
191.	Dexrazoxane	Topoisomerase II	DTP/NCI	
192.	Teniposide	Topoisomerase II	DTP/NCI	
193.	Valrubicin	Topoisomerase II	DTP/NCI	
194.	Podophyllotoxin	Topoisomerase I/II	DTP/NCI	
195.	Pentostatin	Adenosine deaminase	DTP/NCI	(56)
196.	Cladribine	Adenosine deaminase	DTP/NCI	
197.	Fluorouracil	Thymidylate synthase	DTP/NCI	(57)
198.	Leucovorin calcium	DHFR	DTP/NCI	(58)
199.	Methotrexate	DHFR	DTP/NCI	
200.	N-acetylcysteine	Platelet aggregation	DTP/NCI	(25)
201.	Saliphenylhalamide	vATPase	*	(59)

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