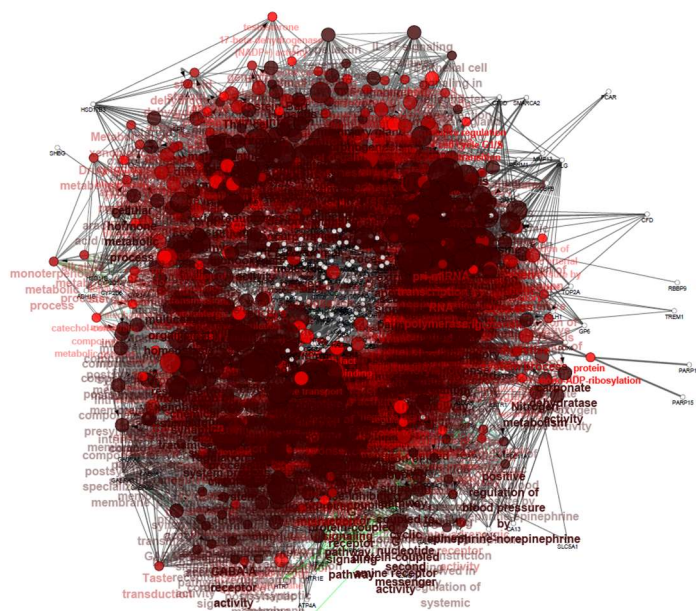


## Supplementary Material:

### A network-based approach to explore the mechanisms of Uncaria alkaloids in treating hypertension and alleviating Alzheimer's disease



**Figure S1.** Network of compound-target gene interactions for Uncaria alkaloids built by linking the identified 85 compounds and 254 target genes using ADME screening.

**Table S1** List of the 143 Uncaria alkaloids isolated from Uncaria genus

No.	Compound name	Molecular formula	Molecular weight	References
<b><i>β</i>-carboline type</b>				
1	harmane	C <sub>12</sub> H <sub>10</sub> N <sub>2</sub>	182.0844	[1]
2	lyaloside	C <sub>27</sub> H <sub>30</sub> O <sub>9</sub> N <sub>2</sub>	526.1951	[2]
3	deoxycordifoline	C <sub>28</sub> H <sub>30</sub> O <sub>11</sub> N <sub>2</sub>	570.1850	[3]
4	5 <i>β</i> -carboxystrictosidine	C <sub>28</sub> H <sub>34</sub> O <sub>11</sub> N <sub>2</sub>	574.2163	[2]
5	3,4-dehydro-5-carboxystrictosidine	C <sub>28</sub> H <sub>32</sub> O <sub>11</sub> N <sub>2</sub>	572.2006	[2]
6	hirsutaside A	C <sub>30</sub> H <sub>38</sub> O <sub>11</sub> N <sub>2</sub>	602.2476	[4]
7	hirsutaside D	C <sub>43</sub> H <sub>52</sub> O <sub>18</sub> N <sub>2</sub>	884.3215	[5]
8	neonaucleoside B	C <sub>45</sub> H <sub>54</sub> O <sub>20</sub> N <sub>2</sub>	942.3270	[5]
9	bahienoside A	C <sub>44</sub> H <sub>58</sub> O <sub>18</sub> N <sub>2</sub>	902.3685	[5]
10	bahienoside B	C <sub>44</sub> H <sub>58</sub> O <sub>18</sub> N <sub>2</sub>	902.3685	[5]
<b>tetracyclic monoterpene oxindole type, tMOA</b>				
11	corynoxine	C <sub>22</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	382.1893	[6]
12	isocorynoxine	C <sub>22</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	382.1893	[6]
13	corynoxine	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[7]
14	corynoxine B	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[8]
15	18,19-dehydrocorynxinic acid	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[9]
16	18,19-dehydrocorynxinic acid B	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[9]
17	rhynchophyllic acid	C <sub>21</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	370.1893	[10]
18	isorhynchophyllic acid	C <sub>21</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	370.1893	[10]

19	rhynchophylline	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[6]
20	isorhynchophylline	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[6]
21	22-O-demethyl-22-O-β-D-glucopyranosylisocorynoxine	C <sub>27</sub> H <sub>34</sub> O <sub>9</sub> N <sub>2</sub>	530.2264	[11]
22	corynoxine N-oxide	C <sub>22</sub> H <sub>26</sub> O <sub>5</sub> N <sub>2</sub>	398.1842	[11]
23	isocorynoxine N-oxide	C <sub>22</sub> H <sub>26</sub> O <sub>5</sub> N <sub>2</sub>	398.1842	[11]
24	rhynchophylline N-oxide	C <sub>22</sub> H <sub>28</sub> O <sub>5</sub> N <sub>2</sub>	400.1998	[11]
25	isorhynchophylline N-oxide	C <sub>22</sub> H <sub>28</sub> O <sub>5</sub> N <sub>2</sub>	400.1998	[11]
26	dihydrocorynantheine pseudoindoxyl	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[1]
27	macrophyllionium	C <sub>23</sub> H <sub>30</sub> O <sub>4</sub> N <sub>2</sub>	398.2206	[7]
28	macrophylline A	C <sub>25</sub> H <sub>32</sub> O <sub>5</sub> N <sub>2</sub>	440.2311	[7]
29	macrophylline B	C <sub>25</sub> H <sub>32</sub> O <sub>5</sub> N <sub>2</sub>	440.2311	[7]
30	villocarine C	C <sub>22</sub> H <sub>26</sub> O <sub>5</sub> N <sub>2</sub>	398.1842	[12]
31	villocarine D	C <sub>22</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	382.1893	[12]
<b>tetracyclic monoterpene indole type, tMIA</b>				
32	corynantheidine	C <sub>22</sub> H <sub>28</sub> O <sub>3</sub> N <sub>2</sub>	368.2100	[7]
33	dihydrovallesiachotamine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[13]
34	isovallesiachotamine	C <sub>21</sub> H <sub>22</sub> O <sub>3</sub> N <sub>2</sub>	350.1630	[13]
35	hirsuteine	C <sub>22</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	366.1943	[14]
36	hirsutine	C <sub>22</sub> H <sub>28</sub> O <sub>3</sub> N <sub>2</sub>	368.2100	[14]
37	epi-allo-corynantheine	C <sub>22</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	366.1943	[1]
38	corynantheine	C <sub>22</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	366.1943	[15]
39	dihydrocorynantheine	C <sub>22</sub> H <sub>28</sub> O <sub>3</sub> N <sub>2</sub>	368.2100	[11]
40	geissoschizine methyl ether	C <sub>22</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	366.1943	[16]
41	4-geissoschizine N-oxide methyl ether	C <sub>22</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	382.1893	[17]
42	3-epi-geissoschizine methyl ether	C <sub>22</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	366.1943	[17]
43	gambireine	C <sub>22</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	382.1893	[18]
44	gambirine	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[19]
45	isogambirine	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[18]
46	glabratine	C <sub>27</sub> H <sub>34</sub> O <sub>9</sub> N <sub>2</sub>	530.2264	[3]
47	vallesiachotamine	C <sub>21</sub> H <sub>22</sub> O <sub>3</sub> N <sub>2</sub>	350.1630	[13]
48	villocarine A	C <sub>22</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	366.1943	[12]
49	hirsutine N-oxide	C <sub>22</sub> H <sub>28</sub> O <sub>4</sub> N <sub>2</sub>	384.2049	[20]
50	hirsuteine N-oxide	C <sub>22</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	382.1893	[17]
51	16,17-dehydro-O-demethylhirsuteine	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	354.1943	[21]
<b>pentacyclic monoterpene oxindole type, pMOA</b>				
52	mitraphylline	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[22]
53	isomitraphylline	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[23]
54	mitraphyllic acid	C <sub>20</sub> H <sub>22</sub> O <sub>4</sub> N <sub>2</sub>	354.1580	[10]
55	isomitraphyllic acid	C <sub>20</sub> H <sub>22</sub> O <sub>4</sub> N <sub>2</sub>	354.1580	[24]
56	O-ethyl isomitraphylline	C <sub>22</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	382.1893	[23]
57	mitraphyllic acid-(16-1)-β-D-glucopyranoside	C <sub>26</sub> H <sub>32</sub> O <sub>9</sub> N <sub>2</sub>	516.2108	[24]
58	isomitraphyllic acid-(16-1)-β-D-glucopyranoside	C <sub>26</sub> H <sub>32</sub> O <sub>9</sub> N <sub>2</sub>	516.2108	[24]
59	pteropodic acid	C <sub>20</sub> H <sub>22</sub> O <sub>4</sub> N <sub>2</sub>	354.1580	[10]
60	isopteropodic acid	C <sub>20</sub> H <sub>22</sub> O <sub>4</sub> N <sub>2</sub>	354.1580	[10]
61	pteropodine	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[25]
62	isopteropodine	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[23]
63	rauniticine oxindole A	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[26]
64	rauniticine oxindole B	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[3]
65	speciophylline	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[23]

66	uncarine A	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[27]
67	uncarine F	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[23]
68	uncaric acid A	C <sub>20</sub> H <sub>22</sub> O <sub>4</sub> N <sub>2</sub>	354.1580	[4]
69	uncarine B	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[3]
70	rumberine	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[28]
71	rotundifoline	C <sub>22</sub> H <sub>28</sub> O <sub>5</sub> N <sub>2</sub>	400.1998	[1]
72	isorotundifoline	C <sub>22</sub> H <sub>28</sub> O <sub>5</sub> N <sub>2</sub>	400.1998	[29]
73	gambirdine	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[30]
74	isogambirdine	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[30]
75	rauniticin- <i>allo</i> acid B	C <sub>20</sub> H <sub>22</sub> O <sub>4</sub> N <sub>2</sub>	354.1580	[31]
76	rauniticine- <i>allo</i> oxindole B	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[31]
77	mitraphylline <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[1]
78	isomitraphylline <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[1]
79	pteropodine <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[1]
80	isopterpodine <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[1]
81	speciophylline <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[1]
82	uncarine F <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[1]
83	uncarine B <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	384.1685	[32]
84	akuammigine pseudoindoxyl	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[26]
85	rauniticine pseudoindoxyl	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[26]
86	3-isorauniticine pseudoindoxyl	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[26]
<b>pentacyclic monoterpene indole type, pMIA</b>				
87	ajmalicine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[26]
88	19- <i>epi</i> -ajmalicine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[26]
89	19- <i>epi</i> -3- <i>iso</i> -ajmalicine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[1]
90	3- <i>epi</i> -ajmalicine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[26]
91	akuammigine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[13]
92	rauniticine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[33]
93	14 $\alpha$ -hydroxyrauniticine	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[33]
94	14 $\beta$ -hydroxy-3-isorauniticine	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[26]
95	3-isorauniticine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[26]
96	tetrahydroalstonine	C <sub>21</sub> H <sub>24</sub> O <sub>3</sub> N <sub>2</sub>	352.1787	[34]
97	diangoutengjian	C <sub>21</sub> H <sub>26</sub> O <sub>4</sub> N <sub>2</sub>	370.1893	[35]
98	tetrahydroalstonine <i>N</i> -oxide	C <sub>21</sub> H <sub>24</sub> O <sub>4</sub> N <sub>2</sub>	368.1736	[26]
99	rhynchophine	C <sub>36</sub> H <sub>38</sub> O <sub>11</sub> N <sub>2</sub>	674.2476	[13]
100	strictosidine lactam	C <sub>26</sub> H <sub>30</sub> O <sub>8</sub> N <sub>2</sub>	498.2002	[13]
101	vincoside lactam	C <sub>26</sub> H <sub>30</sub> O <sub>8</sub> N <sub>2</sub>	498.2002	[13]
102	2'- <i>O</i> - $\beta$ -D-glucopyranosyl-11-hydroxyvincoside lactam	C <sub>32</sub> H <sub>40</sub> O <sub>14</sub> N <sub>2</sub>	676.2480	[11]
103	vincoside lactam A	C <sub>26</sub> H <sub>32</sub> N <sub>2</sub> O <sub>10</sub>	532.2057	[13]
<b>yohimbine type</b>				
104	pseudoyohimbine	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	354.1943	[18]
105	alloyohimbine	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	354.1943	[18]
106	3- <i>epi</i> - $\beta$ -yohimbine	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	354.1943	[18]
107	$\beta$ -yohimbine	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	354.1943	[18]
108	$\alpha$ -yohimbine	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	354.1943	[18]
109	yohimbine	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub> N <sub>2</sub>	354.1943	[18]
<b>pyridino-indolo-quinolizidinone type, angustine-type</b>				
110	angustine	C <sub>20</sub> H <sub>15</sub> ON <sub>3</sub>	313.1215	[36]
111	angustidine	C <sub>19</sub> H <sub>15</sub> ON <sub>3</sub>	301.1215	[36]
112	angustoline	C <sub>20</sub> H <sub>17</sub> O <sub>2</sub> N <sub>3</sub>	331.1321	[36]
<b>cadambine type</b>				
113	cadambine	C <sub>27</sub> H <sub>32</sub> O <sub>10</sub> N <sub>2</sub>	544.2057	[17]
114	3 $\alpha$ -dihydrocadambine	C <sub>27</sub> H <sub>34</sub> O <sub>10</sub> N <sub>2</sub>	546.2214	[14]
115	3 $\beta$ -isodihydrocadambine	C <sub>27</sub> H <sub>34</sub> O <sub>10</sub> N <sub>2</sub>	546.2214	[17]
<b>3-Oxo-3,7-seco-monoterpene indoles</b>				

116	3-oxo-7-hydroxy-3,7-secorhynchophylline	C <sub>22</sub> H <sub>28</sub> O <sub>6</sub> N <sub>2</sub>	416.1947	[37]
117	villocarine B	C <sub>22</sub> H <sub>26</sub> O <sub>6</sub> N <sub>2</sub>	414.1791	[12]
118	hirsutanine D	C <sub>21</sub> H <sub>24</sub> O <sub>6</sub> N <sub>2</sub>	401.1634	[32]
119	hirsutanine E	C <sub>21</sub> H <sub>24</sub> O <sub>6</sub> N <sub>2</sub>	401.1634	[32]
120	hirsutanine F	C <sub>20</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	372.1685	[32]
121	18 $\alpha$ -hirsutanine F	C <sub>20</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	372.1685	[32]
<b>dimeric monoterpene indoles</b>				
122	callophylline A	C <sub>43</sub> H <sub>52</sub> O <sub>7</sub> N <sub>4</sub>	736.3836	[38]
123	callophylline B	C <sub>43</sub> H <sub>52</sub> O <sub>8</sub> N <sub>4</sub>	752.3785	[38]
124	callophylline	C <sub>43</sub> H <sub>52</sub> O <sub>7</sub> N <sub>4</sub>	736.3836	[18]
125	roxburghine A	C <sub>31</sub> H <sub>32</sub> O <sub>2</sub> N <sub>4</sub>	492.2525	[39]
126	roxburghine B	C <sub>31</sub> H <sub>32</sub> O <sub>2</sub> N <sub>4</sub>	492.2525	[39]
127	roxburghine C	C <sub>31</sub> H <sub>32</sub> O <sub>2</sub> N <sub>4</sub>	492.2525	[39]
128	roxburghine D	C <sub>31</sub> H <sub>32</sub> O <sub>2</sub> N <sub>4</sub>	492.2525	[39]
129	roxburghine E	C <sub>31</sub> H <sub>32</sub> O <sub>2</sub> N <sub>4</sub>	492.2525	[39]
130	roxburghine X	C <sub>31</sub> H <sub>32</sub> O <sub>2</sub> N <sub>4</sub>	492.2525	[40]
<b>others</b>				
131	uncariagambiriine	C <sub>36</sub> H <sub>32</sub> O <sub>8</sub> N <sub>2</sub>	620.2159	[41]
132	salacin	C <sub>17</sub> H <sub>20</sub> O <sub>3</sub> N <sub>2</sub>	300.1474	[37]
133	alkaloid us 7	C <sub>22</sub> H <sub>26</sub> O <sub>6</sub> N <sub>2</sub>	414.1791	[42]
134	alkaloid us 8	C <sub>22</sub> H <sub>26</sub> O <sub>6</sub> N <sub>2</sub>	414.1791	[42]
135	hirsutanine A	C <sub>11</sub> H <sub>15</sub> O <sub>3</sub> N	209.1052	[43]
136	hirsutanine B	C <sub>10</sub> H <sub>13</sub> O <sub>3</sub> N	195.0895	[43]
137	hirsutanine C	C <sub>20</sub> H <sub>24</sub> O <sub>5</sub> N <sub>2</sub>	372.1685	[43]
138	3-diethylamino-5-methoxy-1, 2-benzoquinone	C <sub>11</sub> H <sub>15</sub> O <sub>3</sub> N	209.1052	[44]
139	3-ethylamino-5-methoxy-1, 2-benzoquinone	C <sub>9</sub> H <sub>10</sub> O <sub>3</sub> N	181.0739	[44]
140	(-)-uncarilin A	C <sub>38</sub> H <sub>42</sub> O <sub>4</sub> N <sub>6</sub>	646.3268	[45]
141	(+)-uncarilin A	C <sub>38</sub> H <sub>42</sub> O <sub>4</sub> N <sub>6</sub>	646.3268	[45]
142	(-)-uncarilin B	C <sub>38</sub> H <sub>42</sub> O <sub>4</sub> N <sub>6</sub>	646.3268	[45]
143	(+)-uncarilin B	C <sub>38</sub> H <sub>42</sub> O <sub>4</sub> N <sub>6</sub>	646.3268	[45]

Table S2. Databases used and their detailed information

Database Name	Version	Access date	Website links	References
ClueGO	v2.5.4	2019-02-28	<a href="http://apps.cytoscape.org/apps/cluego">http://apps.cytoscape.org/apps/cluego</a>	[46]
ConsensusPathDB	Release 34	2019-01-15	<a href="http://consensuspathdb.org/">http://consensuspathdb.org/</a>	[47]
Cytoscape	3.7.2	Latest Version	<a href="https://cytoscape.org/">https://cytoscape.org/</a>	[48]
DrugBank	5.1.3	2019-04-02	<a href="https://www.drugbank.ca/">https://www.drugbank.ca/</a>	[49]
DrugBank	5.1.4	2019-07-02	<a href="https://www.drugbank.ca/">https://www.drugbank.ca/</a>	[49]
FAF-Drugs4	Version 4	2017-04-26	<a href="http://fafdrugs4.mti.univ-paris-diderot.fr/index.html">http://fafdrugs4.mti.univ-paris-diderot.fr/index.html</a>	[50]
Metascape	Data updated	2019-08-14	<a href="http://metascape.org/gp/index.html#/main/step1">http://metascape.org/gp/index.html#/main/step1</a>	[51]

PharmMapper	monthly Version 2017	2016-01-01	<a href="http://www.lilab-ecust.cn/pharmmapper/">http://www.lilab-ecust.cn/pharmmapper/</a>	[52,53]
Similarity ensemble approach (SEA)	Latest Version	2019-03-26	<a href="http://sea.bkslab.org/">http://sea.bkslab.org/</a>	[54]
String	11.0	2019-01-19	<a href="https://string-db.org/">https://string-db.org/</a>	[55,56]
SwissTargetPrediction	Validation dataset	2019	<a href="http://www.swisstargetprediction.ch/index.php">http://www.swisstargetprediction.ch/index.php</a>	[57]
TargetNet	1.0	2014-02-25	<a href="http://targetnet.scbdd.com/">http://targetnet.scbdd.com/</a>	[58]
Therapeutic Target Database (TTD)	Update 2018	2017-09-15	<a href="https://db.idrblab.org/ttd/">https://db.idrblab.org/ttd/</a>	[59]
WebGestalt	WebGestalt 2019	2019-12-09	<a href="http://www.webgestalt.org/">http://www.webgestalt.org/</a>	[60]
Wikipathways	December 2019 Release	2019-12	<a href="https://www.wikipathways.org/index.php/WikiPathway">https://www.wikipathways.org/index.php/WikiPathway</a>	[61]

**Table S3.** *In vitro* BChE enzyme activity assay of galantamine as the positive control.

Conc. ( $\mu$ M)	Inhibition rate (%)
	galantamine
10	2.86
50	41.00
100	53.47
200	59.62
IC <sub>50</sub>	18.21

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