

**Table S1.** Sequence alignment results of twenty-eight strains. Closest relative identification showing high sequence similarity according to NCBI GenBank by BLAST are displayed.

**Table S2.** Mass spectral information of differential compounds in secondary metabolites of marine fungi analysed based on UPLC-QTOF-MS technique.

**Figure S1.** Possible fragmentation pathway of the structure of **compounds 1-8**.

**Figure S2.** Possible fragmentation pathway of the structure of **compounds 9-16**.

**Figure S3.** Possible fragmentation pathway of the structure of **compounds 17-23**.

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Strain number	Sequence length	Accession number	Closest relative in NCBI GenBank	Sequence similarity %	Order
P-WZ1	581	OK315644	<i>Curvularia</i> sp. 3 YHY-2018	100	<i>Curvularia</i> sp.
P-WZ2	562	OK315664	<i>Alternaria alternata</i> KU20017.1	100	<i>Alternaria</i> sp.
P-WZ3-1	535	OK316146	<i>Fusarium oxysporum</i> N-61-2	100	<i>Fusarium</i> sp.
P-WZ3-2	564	OK316148	<i>Fusarium oxysporum</i> R97208	100	<i>Fusarium</i> sp.
P-WZ4	545	OK316147	<i>Neopestalotiopsis rosae</i> KoRLI046308	100	<i>Neopestalotiopsis</i> sp.
P-WZ5	598	OK316891	<i>Pestalotiopsis</i> sp. Y. H. Yeh I1005	100	<i>Pestalotiopsis</i> sp.
P-WZ6	539	OK316900	<i>Fusarium oxysporum</i> N-19-2	100	<i>Fusarium</i> sp.
P-WZ10	537	OK316920	<i>Lasiodiplodia Pseudotheobromae</i> KoRLI047143	100	<i>Lasiodiplodia</i> sp.
P-WZ11	613	OK316970	<i>Trichoderma harzianum</i> ASF-T10	100	<i>Trichoderma</i> sp.
P-WZ13	540	OK317238	<i>Fusarium oxysporum</i> SF-942	100	<i>Fusarium</i> sp.
P-WS18-1	583	OK317395	<i>Arthrinium intestini</i> CBS 135835	99.13	<i>Arthrinium</i> sp.
P-WS18-2	586	OK317689	<i>Arthrinium</i> sp. GU071007	99.13	<i>Arthrinium</i> sp.
M-WS19	550	OK317702	<i>Aspergillus chevalieri</i> DTO 401-E8	100	<i>Aspergillus</i> sp.
M-WS24	624	OK318456	<i>Rhodotorula mucilaginosa</i> CBS:316	100	<i>Rhodotorula</i> sp.
M-WS25-1	602	OK319053	<i>Trichoderma sulphureum</i> SF-974	100	<i>Trichoderma</i> sp.
M-WS25-2	605	OK323230	<i>Trichoderma</i> sp. ZMQRS9	100	<i>Trichoderma</i> sp.
M-WS26	574	OK321188	<i>Penicillium senticosum</i> F1	99.83	<i>Penicillium</i> sp.
Y-WS27	605	OK323141	<i>Aspergillus terreus</i> SF-917	100	<i>Aspergillus</i> sp.
Y-WS28	548	OK323136	<i>Nigrospora sphaerica</i> 06	100	<i>Nigrospora</i> sp.
P4	545	OK323137	<i>Nigrospora aurantiaca</i> KoRLI047350	100	<i>Nigrospora</i> sp.
P3	599	OK323144	<i>Pestalotiopsis</i> sp. SC5A8	100	<i>Pestalotiopsis</i> sp.
P56	613	OK323139	<i>Rhodotorula mucilaginosa</i> CD18Y	100	<i>Rhodotorula</i> sp.
P341	602	OK323146	<i>Aspergillus terreus</i> CY229	99.83	<i>Aspergillus</i> sp.
P342	589	OK323143	<i>Curvularia clavata</i> M5	100	<i>Curvularia</i> sp.
P-L1	578	OK323138	<i>Talaromyces</i> sp. ERR11-7	100	<i>Talaromyces</i> sp.
P-L2	559	OK323242	<i>Fusarium</i> sp. YZ7-10	99.09	<i>Fusarium</i> sp.
M-L3	592	OK323142	<i>Diaporthe discoidispora</i> NKDL-2-3	99.65	<i>Diaporthe</i> sp.
M-L4	572	OK323145	<i>Talaromyces oumae-annae</i> SF-976	100	<i>Talaromyces</i> sp.

**Table S2.** Mass spectral information of differential compounds in secondary metabolites of marine fungi analysed based on UPLC-QTOF-MS technique.

Crude extract	NO.	Rt (min)	Mass (m/z)	ppm error	Molecular Formula	Fragment Ions (MS <sub>2</sub> )	MS <sub>2</sub> molecular formula	Name of compound	Activity	Reference
P-WZ-2-1	1	9.169	706.3923	0.013	C <sub>37</sub> H <sub>51</sub> N <sub>7</sub> O <sub>7</sub>	237.212	C <sub>14</sub> H <sub>23</sub> NO <sub>2</sub> <sup>+</sup>	enamidonin	antibacterial	[1]
						348.179	C <sub>19</sub> H <sub>30</sub> N <sub>3</sub> O <sub>3</sub> <sup>+</sup>			
						371.181	C <sub>19</sub> H <sub>23</sub> N <sub>4</sub> O <sub>4</sub> <sup>+</sup>			
	2	14.061	462.2387	0.002	C <sub>27</sub> H <sub>31</sub> N <sub>3</sub> O <sub>4</sub>	252.029	C <sub>17</sub> H <sub>18</sub> NO <sup>+</sup>	notoamide F	-	[2,3]
						387.214	C <sub>25</sub> H <sub>27</sub> N <sub>2</sub> O <sub>2</sub> <sup>+</sup>			
						444.240	C <sub>26</sub> H <sub>26</sub> N <sub>3</sub> O <sub>4</sub> <sup>+</sup>			
	3	18.047	507.3680	0.002	C <sub>30</sub> H <sub>50</sub> O <sub>6</sub>	211.095	C <sub>13</sub> H <sub>23</sub> O <sub>2</sub> <sup>+</sup>	penicisteroid G	anticancer	[4]
						279.232	C <sub>17</sub> H <sub>27</sub> O <sub>3</sub> <sup>+</sup>			
						319.224	C <sub>21</sub> H <sub>35</sub> O <sub>2</sub> <sup>+</sup>			
						321.241	C <sub>19</sub> H <sub>29</sub> O <sub>4</sub> <sup>+</sup>			
	4	24.343	633.3997	0.068	C <sub>36</sub> H <sub>56</sub> O <sub>9</sub>	135.115	C <sub>5</sub> H <sub>11</sub> O <sub>4</sub> <sup>+</sup>	oligoporin B	anticancer	[5]
						163.037	C <sub>6</sub> H <sub>11</sub> O <sub>5</sub> <sup>+</sup>			
						493.402	C <sub>28</sub> H <sub>45</sub> O <sub>7</sub> <sup>+</sup>			
	5	25.601	635.4001	0.017	C <sub>32</sub> H <sub>58</sub> O <sub>12</sub>	151.035	C <sub>5</sub> H <sub>11</sub> O <sub>5</sub> <sup>+</sup>	β-D-Mannopyranoside	-	[6]
						363.249	C <sub>16</sub> H <sub>27</sub> O <sub>9</sub> <sup>+</sup>			
						495.416	C <sub>28</sub> H <sub>47</sub> O <sub>7</sub> <sup>+</sup>			
						563.403	C <sub>27</sub> H <sub>47</sub> O <sub>12</sub> <sup>+</sup>			
P-WZ-3-2-2	6	9.297	852.4893	0.022	C <sub>48</sub> H <sub>69</sub> NO <sub>12</sub>	89.056	C <sub>4</sub> H <sub>9</sub> O <sub>2</sub> <sup>+</sup>	chivosazole B	cytotoxic	[7]
						176.097	C <sub>8</sub> H <sub>16</sub> O <sub>4</sub> <sup>+</sup>			
						646.310	C <sub>39</sub> H <sub>52</sub> NO <sub>7</sub> <sup>+</sup>			
	7	17.187	301.1434	0.002	C <sub>18</sub> H <sub>20</sub> O <sub>4</sub>	121.101	C <sub>8</sub> H <sub>9</sub> O <sup>+</sup>	trichoderolide B	cytotoxic	[8]
						149.093	C <sub>9</sub> H <sub>9</sub> O <sub>2</sub> <sup>+</sup>			
P-WZ-4-4	8	19.704	427.2479	0.002	C <sub>26</sub> H <sub>34</sub> O <sub>5</sub>	180.107	C <sub>10</sub> H <sub>12</sub> O <sub>3</sub> <sup>+</sup>	cladobotric acid D	cytotoxic	[9]
						109.100	C <sub>7</sub> H <sub>9</sub> O <sup>+</sup>			
						190.019	C <sub>12</sub> H <sub>14</sub> O <sub>2</sub> <sup>+</sup>			
						302.145	C <sub>19</sub> H <sub>26</sub> O <sub>3</sub> <sup>+</sup>			
	9	13.358	274.2125	0.062	C <sub>13</sub> H <sub>27</sub> N <sub>3</sub> O <sub>3</sub>	318.140	C <sub>19</sub> H <sub>26</sub> O <sub>4</sub> <sup>+</sup>	fragin	anticancer	[10-12]
						88.075	C <sub>2</sub> H <sub>6</sub> N <sub>3</sub> O <sup>+</sup>			
						102.091	C <sub>5</sub> H <sub>12</sub> NO <sup>+</sup>			
	10	13.514	318.3003	0.001	C <sub>18</sub> H <sub>39</sub> NO <sub>3</sub>	106.086	C <sub>10</sub> H <sub>18</sub> N <sub>3</sub> O <sub>2</sub> <sup>+</sup>	phytosphingosine	anticancer	[13,14]
						102.090	C <sub>4</sub> H <sub>8</sub> NO <sub>2</sub> <sup>+</sup>			
						132.101	C <sub>6</sub> H <sub>14</sub> NO <sub>2</sub> <sup>+</sup>			
						256.263	C <sub>15</sub> H <sub>28</sub> O <sub>3</sub> <sup>+</sup>			
	11	15.243	453.1544	0.013	C <sub>25</sub> H <sub>24</sub> O <sub>8</sub>	257.265	C <sub>14</sub> H <sub>27</sub> NO <sub>3</sub> <sup>+</sup>	thielavin S	antibacterial	[15]
						119.085	C <sub>8</sub> H <sub>7</sub> O <sup>+</sup>			
						135.080	C <sub>8</sub> H <sub>7</sub> O <sub>2</sub> <sup>+</sup>			
	12	18.53	312.2169	0.146	C <sub>17</sub> H <sub>29</sub> NO <sub>4</sub>	147.065	C <sub>9</sub> H <sub>7</sub> O <sub>2</sub> <sup>+</sup>	penicillenol D	antibacterial	[16]
						58.064	C <sub>2</sub> H <sub>4</sub> NO <sup>+</sup>			
						60.081	C <sub>3</sub> H <sub>8</sub> O <sup>+</sup>			
						71.085	C <sub>5</sub> H <sub>11</sub> <sup>+</sup>			

	13	20.834	512.4256	0.08	C <sub>22</sub> H <sub>49</sub> N <sub>13</sub> O	102.091	C <sub>4</sub> H <sub>12</sub> N <sub>3</sub> <sup>+</sup>	cabanillasin	antibacterial	[17]
						256.200	C <sub>11</sub> H <sub>26</sub> N <sub>7</sub> <sup>+</sup>			
						257.154	C <sub>11</sub> H <sub>25</sub> N <sub>6</sub> O <sup>+</sup>			
						283.263	C <sub>13</sub> H <sub>29</sub> N <sub>7</sub> <sup>+</sup>			
	14	21.354	540.4986	0.037	C <sub>33</sub> H <sub>65</sub> NO	102.091	C <sub>4</sub> H <sub>8</sub> NO <sub>2</sub> <sup>+</sup>	suillumide	cytotoxic	[18]
						256.263	C <sub>16</sub> H <sub>32</sub> O <sub>2</sub> <sup>+</sup>			
						257.266	C <sub>16</sub> H <sub>33</sub> O <sub>2</sub> <sup>+</sup>			
						311.295	C <sub>19</sub> H <sub>37</sub> NO <sub>2</sub> <sup>+</sup>			
	15	9.768	563.2764	0.007	C <sub>21</sub> H <sub>38</sub> N <sub>8</sub> O <sub>10</sub>	312.235	C <sub>18</sub> H <sub>34</sub> NO <sub>3</sub> <sup>+</sup>	(+) -(2S,3S,4R)-10-De-O-carbamoyl-12-O-carbamoyl-Nβ-acetylstreptothricin F acid	-	[19]
						147.117	C <sub>5</sub> H <sub>11</sub> N <sub>2</sub> O <sub>3</sub> <sup>+</sup>			
						216.109	C <sub>7</sub> H <sub>12</sub> N <sub>4</sub> O <sub>4</sub> <sup>+</sup>			
						435.252	C <sub>15</sub> H <sub>27</sub> N <sub>6</sub> O <sub>9</sub> <sup>+</sup>			
P-WZ-5-3	16	13.526	373.1646	0.002	C <sub>21</sub> H <sub>24</sub> O <sub>6</sub>	445.233	C <sub>17</sub> H <sub>31</sub> N <sub>7</sub> O <sub>7</sub> <sup>+</sup>	penikellides A	-	[20,21]
						109.065	C <sub>7</sub> H <sub>9</sub> O <sup>+</sup>			
						123.043	C <sub>7</sub> H <sub>7</sub> O <sub>2</sub> <sup>+</sup>			
						147.075	C <sub>9</sub> H <sub>7</sub> O <sub>2</sub> <sup>+</sup>			
	17	17.27	579.2912	0.002	C <sub>29</sub> H <sub>42</sub> N <sub>2</sub> O <sub>10</sub>	315.156	C <sub>17</sub> H <sub>15</sub> O <sub>6</sub> <sup>+</sup>	(4R)-4,5-Dihydro-4-hydroxygeldanamyacin	cytotoxic	[22]
						74.097	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub> <sup>+</sup>			
						117.054	C <sub>4</sub> H <sub>7</sub> NO <sub>3</sub> <sup>+</sup>			
						499.195	C <sub>27</sub> H <sub>35</sub> N <sub>2</sub> O <sub>7</sub> <sup>+</sup>			
	18	17.714	743.4338	0.015	C <sub>38</sub> H <sub>58</sub> N <sub>6</sub> O <sub>9</sub>	577.284	C <sub>29</sub> H <sub>41</sub> N <sub>2</sub> O <sub>10</sub> <sup>+</sup>	brintonamide B	-	[23]
						382.241	C <sub>19</sub> H <sub>33</sub> N <sub>3</sub> O <sub>5</sub> <sup>+</sup>			
						389.156	C <sub>20</sub> H <sub>27</sub> N <sub>3</sub> O <sub>5</sub> <sup>+</sup>			
						360.136	C <sub>19</sub> H <sub>26</sub> N <sub>3</sub> O <sub>4</sub> <sup>+</sup>			
P-56-2	19	10.915	334.2741	0.000	C <sub>21</sub> H <sub>35</sub> NO <sub>2</sub>	91.054	C <sub>7</sub> H <sub>7</sub> <sup>+</sup>	preussin I	-	[24]
						228.231	C <sub>13</sub> H <sub>26</sub> NO <sub>2</sub> <sup>+</sup>			
						242.212	C <sub>14</sub> H <sub>28</sub> NO <sub>2</sub> <sup>+</sup>			
						272.258	C <sub>19</sub> H <sub>30</sub> N <sup>+</sup>			
	20	17.175	279.1590	0.002	C <sub>16</sub> H <sub>22</sub> O <sub>4</sub>	57.070	C <sub>3</sub> H <sub>5</sub> O <sup>+</sup>	cytosporone C	cytotoxic	[25,26]
						149.023	C <sub>8</sub> H <sub>5</sub> O <sub>3</sub> <sup>+</sup>			
						150.027	C <sub>8</sub> H <sub>6</sub> O <sub>3</sub> <sup>+</sup>			
						88.075	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub> <sup>+</sup>			
	21	10.578	246.1700	0.073	C <sub>12</sub> H <sub>23</sub> NO <sub>4</sub>	102.091	C <sub>5</sub> H <sub>10</sub> O <sub>2</sub> <sup>+</sup>	3-hydroxy-N-(1-hydroxy-3-methylpentan-2-yl)-5-oxohexanamide	-	[27]
						202.215	C <sub>9</sub> H <sub>16</sub> NO <sub>4</sub> <sup>+</sup>			
						229.235	C <sub>11</sub> H <sub>19</sub> NO <sub>4</sub> <sup>+</sup>			
						113.093	C <sub>7</sub> H <sub>13</sub> O <sup>+</sup>			
P-341-2	22	16.821	335.2217	0.002	C <sub>20</sub> H <sub>30</sub> O <sub>4</sub>	195.10	C <sub>11</sub> H <sub>15</sub> O <sub>3</sub> <sup>+</sup>	eutypellone A	-	[28]
						251.094	C <sub>15</sub> H <sub>23</sub> O <sub>3</sub> <sup>+</sup>			
						308.200	C <sub>18</sub> H <sub>28</sub> O <sub>4</sub> <sup>+</sup>			
						129.018	C <sub>5</sub> H <sub>5</sub> O <sub>4</sub> <sup>+</sup>			
	23	17.27	361.2221	0.001	C <sub>18</sub> H <sub>32</sub> O <sub>7</sub>	207.062	C <sub>7</sub> H <sub>11</sub> O <sub>7</sub> <sup>+</sup>	CJ-13, 982	-	[29]
						211.061	C <sub>13</sub> H <sub>23</sub> O <sub>2</sub> <sup>+</sup>			
						268.123	C <sub>14</sub> H <sub>20</sub> O <sub>5</sub> <sup>+</sup>			

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## Supplementary Figures. Possible fragmentation pathways of compounds 1-23.

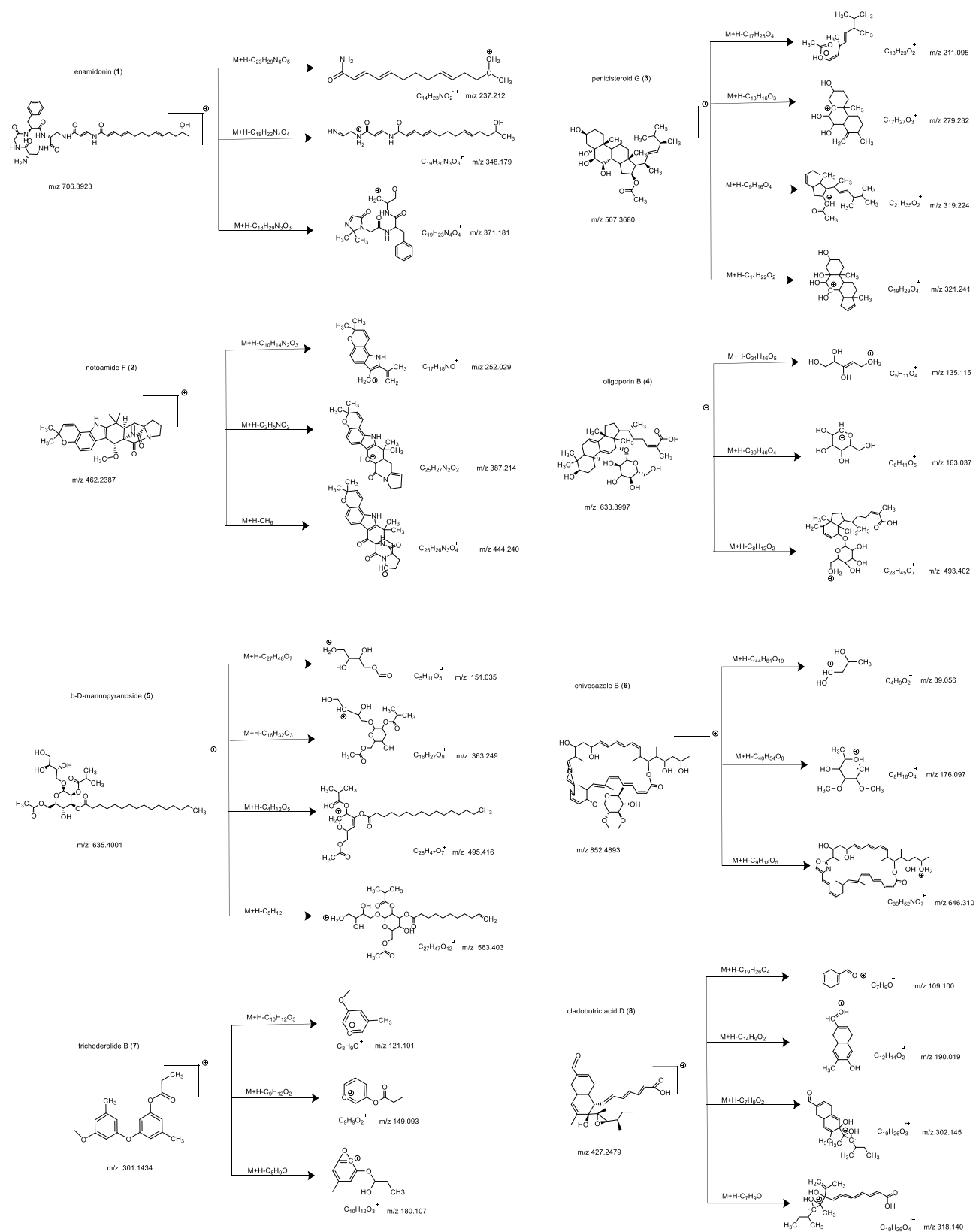
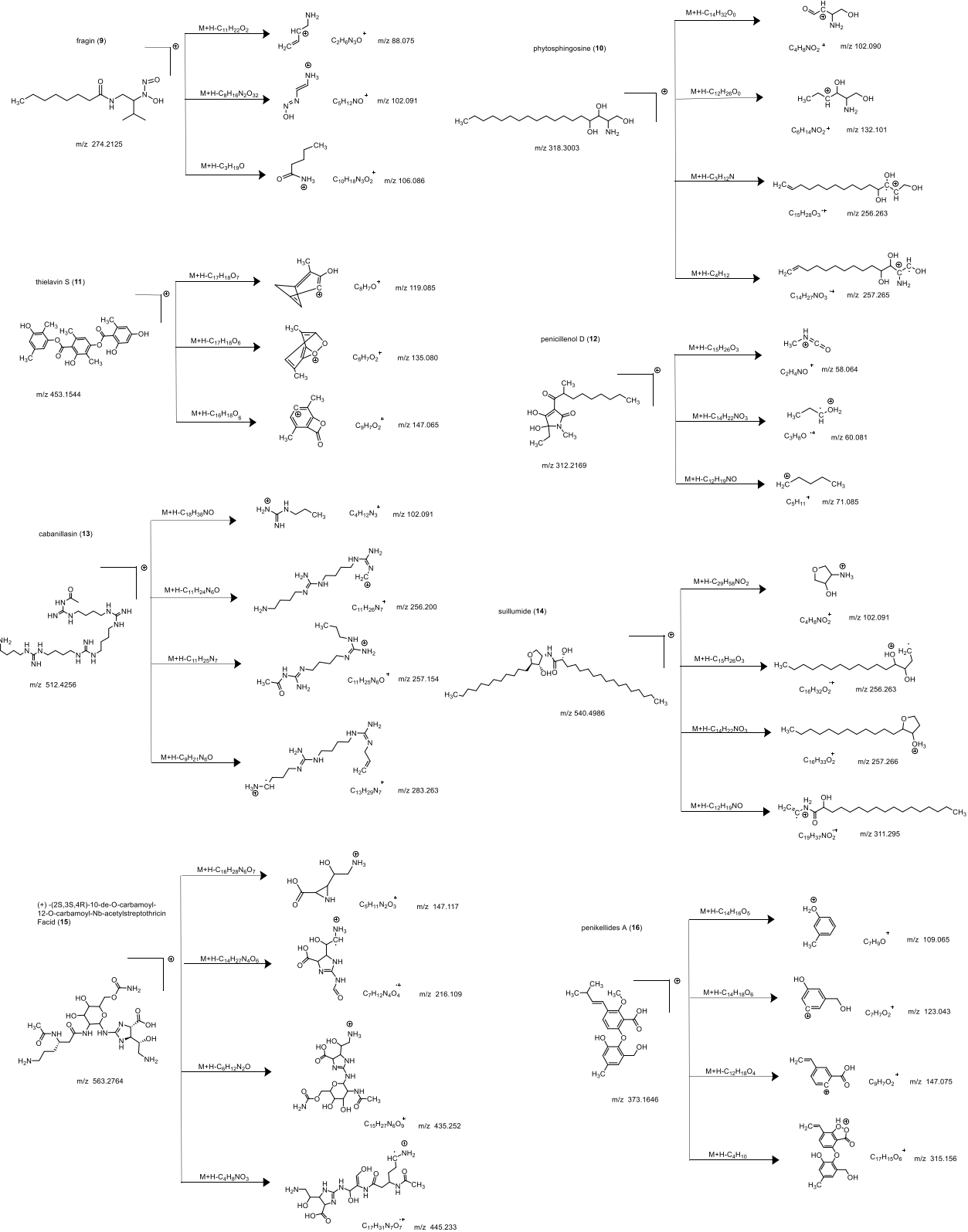
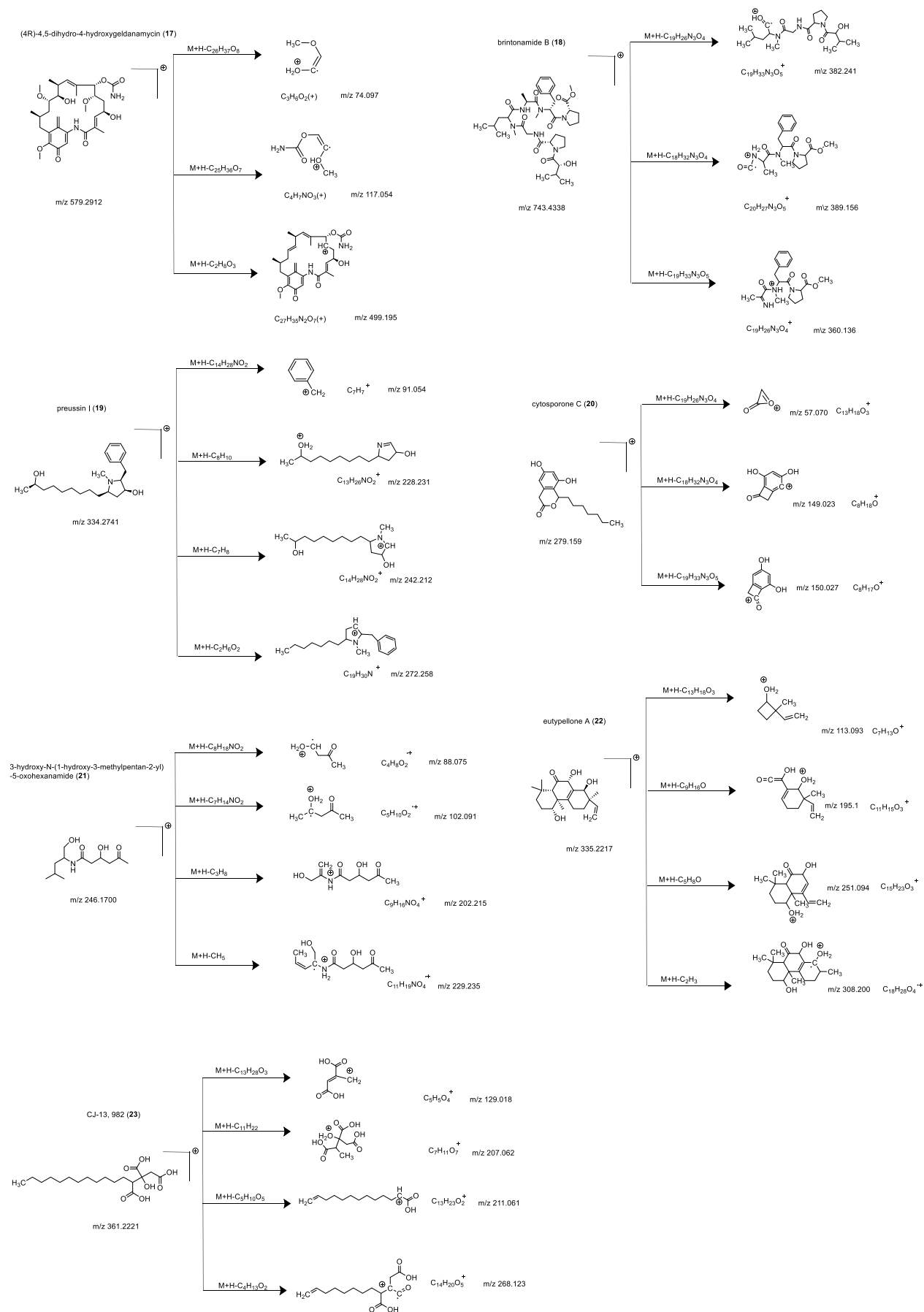


Figure S1. Possible fragmentation pathways of the structure of compounds 1-8.



**Figure S2.** Possible fragmentation pathways of the structure of compounds 9-16.





**Figure S3.** Possible fragmentation pathways of the structure of compounds **17-23**.